

1. Ackerman A 1943 (Experiments to increase the yield from spring wheat, I. Crosses with Brunt Schlanstedter [Brown Schlanstedter] spring wheat with a description of Svalofs Progress spring wheat). *Sveriges Utsadesforenings Tidskrift* 53: 51-66. *Cited Plant Breeding Abstracts* 14: 173, p.42.
2. Ackerman A & MacKey J 1949 (Attempts to improve the yield of spring wheat II. Crosses between spring and winter wheat. Descriptions of Svalov's Ella spring wheat). *Sveriges Utsadesforenings Tidskrift* 59: 105-117. *Cited Plant Breeding Abstracts* 20: 197, p.65.
3. Acosta AC 1963 The transfer of stem rust resistance from rye to wheat. *Dissertation Abstracts* 23: 34-35.
4. Ahn SN & Tanksley SD 1993 Comparative linkage maps of the rice and maize genomes. *Proceedings of the National Academy of Sciences, USA* 90: 7980-7984.
5. Ainsworth C 1995 Personal communication.
6. Ainsworth CC 1983 The genetic control of hexokinase isozymes in wheat. *Genetical Research, Cambridge* 42: 219-227.
7. Ainsworth CC, Doherty P, Edwards KGK, Martienssen RA & Gale MD 1985 Allelic variation at a-amylase loci in hexaploid wheat. *Theoretical and Applied Genetics* 70: 400-406.
8. Ainsworth CC, Gale MD & Baird S 1983 The genetics of beta-amylase isozymes in wheat. Allelic variation among hexaploid varieties and intrachromosomal gene locations. *Theoretical and Applied Genetics* 66: 39-49.
9. Ainsworth CC, Gale MD & Baird S 1984 The genetic control of grain esterases in hexaploid wheat. *Theoretical and Applied Genetics* 68: 219-226.
10. Ainsworth CC, Gale MD & Miller TE 1986 Genetic control of grain esterases in hexaploid wheat II. Homoeologous loci in related species. *Theoretical and Applied Genetics* 72: 219-225.
11. Ainsworth CC, Hosein F, Tarvis M, Weir F, Burrell M, Devos KM & Gale MD 1995 Adenosine diphosphate glucose pyrophosphorylase genes in wheat: differential expression and gene mapping. *Planta* 197: 1-10.
12. Ainsworth CC, Johnson HM, Jackson EA, Miller TE & Gale MD 1984 The chromosomal locations of leaf peroxidase genes in hexaploid wheat, rye and barley. *Theoretical and Applied Genetics* 69: 205-210.
13. Ainsworth CC, Miller TE & Gale MD 1987 a-amylase and beta-amylase homoeoloci in species related to wheat. *Genetical Research, Cambridge* 49: 93-103.
14. Aliev EB, Musaev AD & Maystrenko OI 1982 (Identification of the gene *R2* controlling grain colour in the spring bread wheat variety Diamant 2). *Izv. SO AN SSSR. Ser. Bio. N.* (1981) 15: 75-79. *In: Referativnyi Zhurnal* (1982) 5.65.107; *Cited Plant Breeding Abstracts* 54: 798, p.799."
15. Allan RE 1970 Differentiating between two Norin 10/Brevor 14 semi-dwarf genes in a common genetic background. *Seiken Ziho* 22: 83-90.
16. Allan RE & Vogel OA 1960 F1 monosomic analysis involving a smooth-awn durum wheat. *Wheat Information Service* 11: 3-4.
17. Allan RE & Vogel OA 1965 Monosomic analysis of red seed colour in wheat. *Crop Science* 5: 475.
18. Allan RE, Heyne EG & Jones ET 1956 Relationship of sources of Hessian fly and leaf rust resistance in several wheat crosses involving a white winter wheat *Abstracts of the Annual Meeting of the American Society of Agronomy Cincinnati, Ohio. P.I.* 119344-9. *Cited Plant Breeding Abstracts* 1307, p. 224.

19. Allan RE, Heyne EG, Jones ET & Johnston CO 1959 Genetic analysis of ten sources of Hessian fly resistance, their interrelationships and association with leaf rust reaction in wheat. Kansas Agricultural Experiment Station Technical Bulletin 104: 51pp.
20. Allan RE, Petersen CJ Jr, Rubenthaler GL, Line RF & Roberts DE 1989 Registration of 'Madsen' wheat. *Crop Science* 29: 1575-1576.
21. Allan RE, Petersen CJ Jr, Rubenthaler GL, Line RF & Roberts DE 1990 Registration of 'Hyak' wheat. *Crop Science* 30: 234.
22. Allan RE, Peterson CJ, Line RF, George DW & Rubenthaler GL 1980 Registration of 'Tyee' wheat. *Crop Science* 20: 829-830.
23. Allan RE, Peterson CJ, Rubenthaler GL, Line RF & Morrison KJ 1986 Registration of 'Tres' wheat. *Crop Science* 26: 203-204.
24. Allan RE, Vogel OA & Peterson CJ 1968 Inheritance and differentiation of semi-dwarf culm length of wheat. *Crop Science* 8: 701-704.
25. Amri A, Cox TS, Gill BS & Hatchett JH 1990 Chromosomal location of the Hessian fly resistance gene *H20* in 'Jori' durum wheat. *Journal of Heredity* 81: 71-72.
26. Amri A, Cox TS, Hatchett JH & Gill BS 1990 Complementary action of genes for Hessian fly resistance in wheat cultivar 'Seneca'. *Journal of Heredity* 81: 224-226.
27. Anderson JA & Maan SS 1995 Interspecific nuclear-cytoplasmic compatibility controlled by genes on group 1 chromosomes in durum wheat. *Genome* 38: 803-808.
28. Anderson JA, Ogihara Y, Sorrells ME & Tanksley SD 1992 Development of a chromosomal arm map for wheat based on RFLP markers. *Theoretical and Applied Genetics* 83: 1035-1043.
29. Anderson MK, Williams ND & Maan SS 1971 Monosomic analysis of genes for stem rust resistance derived from Marquis and Reliance wheat. *Crop Science* 11: 556-558.
30. Anderson OD, Greene FC, Yip RE, Halford NG, Shewry PR & Malpica-Romero J-M 1989 Nucleotide sequence of the two high-molecular-weight glutenin genes from the D-genome of a hexaploid bread wheat, *Triticum aestivum* L. cv. Cheyenne. *Nucleic Acids Research* 17: 461-462.
31. Anderson RG 1961 The inheritance of leaf rust resistance in seven varieties of common wheat. *Canadian Journal of Plant Science* 41: 342-359.
32. Anderson RG 1966 Studies on the inheritance of resistance to leaf rust of wheat. *Proceedings of the 2nd International Wheat Genetics Symposium Lund, Sweden 1963*, (Mackey J ed.) *Hereditas Supplement* 2: 144-155.
33. Anonymous 1971 CIMMYT Annual Report 1969-70.
34. Anonymous 1976 Annual Report, Plant Breeding Institute Cambridge, 1975. 109.:
35. Anonymous 1979 Enzyme Nomenclature (1978). Recommendations of the Nomenclature Committee of the International Union of Biochemistry. Academic Press, New York.
36. Anonymous 1984 Enzyme Nomenclature (1984). Recommendations of the Nomenclature Committee of the International Union of Biochemistry. Academic Press, New York.
37. Appels R & Dvorak J 1982 The wheat ribosomal DNA spacer region: its structure and variation in populations and among species. *Theoretical and Applied Genetics* 63: 337-348.
38. Appels R, Driscoll CJ & Peacock WJ 1978 Heterochromatin and highly repeated DNA sequences in rye (*Secale cereale*). *Chromosoma* 70: 67-89.
39. Appels R, Gerlach WR, Dennis ES, Swift H & Peacock WJ 1980 Molecular and chromosomal organization of DNA sequences coding for the ribosomal RNA's in cereals. *Chromosoma* 78: 293-311.

40. Arbuzova VS 1989 Development of isogenic forms of wheat Saratovskaya 29 for introducing dominant gene-markers for separate chromosomes in monosomic lines. Cytogenetics of Agricultural Plants (Shumnyi VK & Shchapova AI eds). Novosibirsk, 1989. (In Russian). pp. 147-160.
41. Arbuzova VS 1994 Chromosome localization of genes *Pp* for purple grain pigmentation introgressed into common wheat. *Genetika(Supplement)*. 30: 9
42. Arbuzova VS, Efremova TT, Laikova LI, Maystrenko OI, Popova OM & Pshenichnikova TA 1996 The development of precise genetic stocks in two wheat cultivars and their use in genetic analysis. *Euphytica* 89: 11-15.
43. Artemova NV 1982 Chromosomal control of the isoenzymes of alcohol dehydrogenase, esterase, and amylase in different rye varieties. *Genetika* 18: 661-667.
44. Asakura N, Nakamura C, & Ohtsuka I 1997 RAPD markers lined to the nuclear gene from *Triticum tiopheevii* that confers compatability with *Aegilops squarrosa* cytoplasm on alloplasmic durum wheat. *Genome* 40: 201-210.
45. Aslam M 1958 Genetic studies in interspecific crosses between durum, sphaerococcum and vulgare types of wheat. *Agriculture, Pakistan* 9: 109-119. *Cited Plant Breeding Abstracts* 39: 2451, p.471.
46. Athwal DS & Watson IA 1955 Inheritance of reaction to wheat stem rust in crosses involving Marquillo, Thatcher and Hochzucht. *Proceedings of the Linnaean Society of New South Wales* 80: 113-129.
47. Ausemus ER, Harrington JB, Reitz LP & Worzella WW 1946 A summary of genetic studies in hexaploid and tetraploid wheats. *Journal of the American Society of Agronomy* 38: 1082-1099.
48. Autrique E, Singh RP, Tanksley SD & Sorrells ME 1995 Molecular markers for four leaf rust resistance genes introgressed into wheat from wild species. *Genome* 38: 75-83.
49. Bacon RK, Kelly JT & Milus EA 1996 Registration of 'Hazan' wheat. *Crop Science* 36: 209-210.
50. Badebo A, Stubbs RW, van Ginkel M & Gebeyehu G 1990 Identification of resistance genes to *Puccinia striiformis* in seedlings of Ethiopian and CIMMYT bread wheat varieties and lines. *Netherlands Journal of Plant Pathology* 96: 199-210.
51. Bagnara D & Rossi L 1972 A liguleless mutation radioinduced in *Triticum durum* Desf. *Wheat Information Service* 33- 34: 1-3.
52. Baier AC, Zeller FJ, Oppitz K & Fischbeck G 1973 Monosomenanalyse der Mehltau und Schwarzrostresistenz des Sommerweizens 'Solo'. *Zeitschrift fur Pflanzenzuchtung* 70: 177-194.
53. Baker EP 1967 Inheritance of resistance to bunt in Turkey wheat selections. *Proceedings of the Linnaean Society of New South Wales* 90: 189-210.
54. Baker EP, Sanghi AK, McIntosh RA & Luig NH 1970 Cytogenetical studies in wheat III. Studies of a gene conditioning resistance to stem rust strains with unusual genes for avirulence. *Australian Journal of Biological Sciences* 23: 369-375.
55. Baker RJ 1977 Inheritance of kernel hardness in spring wheat. *Crop Science* 17: 960-962.
56. Baker RJ 1981 Inheritance of seed coat colour in eight spring wheat cultivars. *Canadian Journal of Plant Science* 61: 719-721.
57. Balzer H-J, Borysiuk L, Meyer H-M, Matzk F & Baumlein H 1996 A pollen allergen encoding gene is expressed in wheat ovaries. *Plant Molecular Biology* 32: 435-445.
58. Banks PM 1996 Personal communication.
59. Banks PM, Larkin PJ, Bariana HS, Lagudah ES, Appels R, Waterhouse PM, Brettell RIS,

- Chen X, Xu HJ, Xin ZY, Qian YT, Zhou XM, Cheng ZM & Zhou GH 1995 The use of cell cultures for subchromosomal introgressions of barley yellow dwarf virus resistance from *Thinopyrum intermedium* to wheat. *Genome* 38: 395-405.
60. Barber HN, Driscoll CJ, Long PM & Vickery RS 1968 Protein genetics of wheat and homoeologous relationships of chromosomes. *Nature* 218: 450-452.
61. Barber HN, Driscoll CJ, Long PM & Vickery RS 1969 Gene similarity of the Triticinae and the study of segmental interchanges. *Nature* 222: 897-898.
62. Bariana HS & McIntosh RA 1993 Cytogenetic studies in wheat XV. Chromosome location of rust resistance genes in VPM1. *Genome* 36: 476-482.
63. Barkardottir RB, Jensen BF, Kreiberg JD, Nielsen PS & Gausing K 1987 Expression of selected nuclear genes during leaf development in barley. *Developmental Genetics* 8: 495-511.
64. Barlow KK & Driscoll CJ 1981 Linkage studies involving two chromosomal male-sterility mutants in hexaploid wheat. *Genetics* 98: 791-799.
65. Bartels D & Thompson RD 1983 The characterization of cDNA clones coding for wheat storage proteins. *Nucleic Acids Research* 11: 2961-2977.
66. Bartels D, Altosaar I, Harberd NP, Barker RF & Thompson RD 1986 Molecular analysis of gamma-gliadin gene families at the complex *Gli-1* locus of bread wheat (*T. aestivum* L.). *Theoretical and Applied Genetics* 72: 845-853.
67. Bartos P & Kosner J 1995 Monosomic analysis of resistance to stem rust in the winter wheat cultivar Zdar (Boheme). *Cereal Rusts and Powdery Mildews Bulletin* 23: 1-4.
68. Bartos P & Stuchlikova E 1986 Genes for rust resistance. *Annual Wheat Newsletter* 32: 65-66.
69. Bartos P & Stuchlikova E 1988 Genes for leaf rust resistance in productive wheats. *Proceedings of the 7th European and Mediterranean Cereal Rusts Conference Vienna, Austria* (B. Zwatz ed.): 85-87.
70. Bartos P & Stuchlikova E 1989 Stem rust resistance of the wheat cultivar Maris Fundin. *Cereal Rusts and Powdery Mildews Bulletin* 17: 10-15.
71. Bartos P & Valkoun J 1988 Rust resistance genes in Czechoslovak wheats. *Cereal Rusts and Powdery Mildews Bulletin* 16: 36-40.
72. Bartos P, Green GJ & Dyck PL 1970 Reaction to stem rust and genetics of stem rust resistance in European wheat varieties. *Canadian Journal of Botany* 48: 1439-1443.
73. Bartos P, Johnson R & Stubbs RW 1987 Postulated genes for resistance to yellow rust in Czechoslovakian wheat cultivars. *Cereal Rusts Bulletin* 15: 79-84.
74. Bartos P, Samborski DJ & Dyck PL 1969 Leaf rust resistance of some European varieties of wheat. *Canadian Journal of Botany* 47: 543-546.
75. Bartos P, Stuchlikova E & Kubova R 1984 Wheat leaf rust epidemics in Czechoslovakia in 1983. *Cereal Rusts Bulletin* 12: 40-41.
76. Bartos P, Tersova R & Slovencikova V 1983 Genetics of rust resistance in Czechoslovak wheat cultivars. *Tag.-Ber., Akad. Landwirtsch. -Wiss. DDR, Berlin* 216: 555-560.
77. Barulina H 1933 (Comparative genetic study of the species of *Triticum*, I. Inheritance of the ligule in wheat species with different chromosome numbers: , *T. vulgare* Vill., *T. compactum* Host., *T. durum* Desf.). *Bulletin of Applied Botany Leningrad Series* 2(5): 127-165. *Cited Plant Breeding Abstracts* 4: 951, p. 291.
78. Baulcombe DC & Bufford D 1983 Gibberellic-acid-regulated expression of  $\alpha$ -amylase and six other genes in wheat aleurone layers. *Planta* 157: 493-501.

79. Baulcombe DC, Barker RF & Jarvis MG 1987 A gibberellin response wheat gene has homology to yeast carboxypeptidase Y. *Journal of Biological Chemistry* 262: 13726-13735.
80. Baulcombe DC, Huttly AK, Matienssen RA, Barker RF & Jarvis MG 1987 A novel wheat a-amylase gene (*a-Amy3*). *Molecular and General Genetics* 209: 33-40.
81. Bayles RA & Herron C 1986 Yellow rust of wheat. UK Cereal Pathogen Virulence Survey, Annual Report @15-20.
82. Bayles RA & Priestley RH 1983 Yellow rust of wheat. UK Cereal Pathogen Virulence Survey. 1982 Annual Report, National Institute Agricultural Botany 27-36.
83. Bayles RA & Thomas JE 1984 Yellow rust of wheat. UK Cereal Pathogen Virulence Survey. 1983 Annual Report, National Institute Agricultural Botany 23-31.
84. Ben Amer IM, Korzun V, Worland AJ & Borner A 1997 Genetic mapping of QTL controlling tissue-culture response on chromosome 2B of wheat (*Triticum aestivum*) in relation to major genes and RFLP markers. *Theoretical and Applied Genetics* 94: 1047-1052.
85. Benedettelli S & Hart GE 1987 Genetic analysis of Triticeae shikimate dehydrogenase. *Biochemical Genetics* 26: 287-301.
86. Benito C & Perez de la Vega M 1979 The chromosomal location of peroxidase isozymes of the wheat kernel. *Theoretical and Applied Genetics* 55: 73-76.
87. Benito C & Salinas J 1983 The chromosomal location of malate dehydrogenase isozymes in hexaploid wheat. *Theoretical and Applied Genetics* 64: 255-258.
88. Benito C, Figueiras AM & Gonzalez-Jaen MT 1984 Phosphoglucomutase-a biochemical marker for group 4 chromosomes in the Triticinae. *Theoretical and Applied Genetics* 68: 555-557.
89. Benito C, Figueiras AM & Gonzalez-Jaen MT 1987 Location of genes coding isozyme markers on *Aegilops umbellulata* chromosomes adds data on homoeology among Triticeae chromosomes. *Theoretical and Applied Genetics* 73: 581-588.
90. Benito C, Figueiras AM, Gonzalez-Jaen MT & Salinas J 1985 Biochemical evidence of homoeology between wheat and barley chromosomes. *Zeitschrift fur Pflanzenzuchtung* 94: 307-320.
91. Benito C, Gallego FJ, Frade JM & Zaragoza C 1990 Chromosomal location of adenylate kinase isozymes in Triticeae species. *Theoretical and Applied Genetics* 79: 157-160.
92. Benito C, Gallego FJ, Zaragoza C, Frede JM & Figueiras AM 1991 Biochemical evidence of a translocation between 6RL/7RL chromosome arms in rye (*Secale cereale* L.). A genetic map of 6R chromosome. *Theoretical and Applied Genetics* 82: 27-32.
93. Benito C, Llorente F, Henriques-Gil N, Gallego FJ, Zaragosa C, Delibes A & Figueiras AM 1994 A map of rye chromosome 4R with cytological and molecular markers. *Theoretical and Applied Genetics* 87: 941-946.
94. Benito C, Perez de la Vega M & Salinas J 1980 The inheritance of wheat kernel peroxidases. *Journal of Heredity* 71: 416-418.
95. Benito MC, Sanchez M, Shin JS & Blake T 1988 A map of barley chromosome 2 using isozymic and morphological markers. *Biochemical Genetics* 26: 387-394.
96. Bennett FGA 1982 Personal communication.
97. Bennett FGA 1984 Resistance to powdery mildew in wheat: a review of its use in agriculture and breeding programmes. *Plant Pathology* 33: 279-300.
98. Bennett FGA & van Kints T 1983 Mildew of wheat. UK Cereal Pathogen Virulence Survey. 1983 Annual Report, National Institute Agricultural Botany 7-21.
99. Berg LA, Gough FJ & Williams ND 1963 Inheritance of stem rust resistance in two wheat

- varieties, Marquis and Kota. *Phytopathology* 53: 904-908.
100. Bergman JW 1972 Chromosome locations of genes controlling esterase and malate dehydrogenase isozymes in *Triticum*. PhD Dissertation, North Dakota State University, Fargo, North Dakota.
  101. Bergman JW & Williams ND 1972 Isozyme variants of esterase and malate dehydrogenase among wheat aneuploids. *Agronomy Abstracts* p. 23.
  102. Berkelman T, Houtchens KA & DuPont FM 1994 Two cDNA clones encoding isoforms of the B subunit of the vacuolar ATPase from barley roots. *Plant Physiology* 104: 287-288.
  103. Bernard M, Autran JC & Joudrier P 1977 Possibilities d'identification de certains chromosomes de seigle a l'aide de marqueurs biochimiques. *Annales d'Amelioration des Plantes* 27: 355-362.
  104. Bethards LA, Skadsen RW & Scandalios JG 1987 Isolation and characterization of a cDNA clone for the *Cat2* gene in maize and its homology with other catalases. *Proceedings National Academy Sciences, USA* 84: 6830-6834.
  106. Bhowal JG & Jha MP 1969 An inhibitor of glume pigment in wheat. *Canadian Journal of Genetics and Cytology* 11: 226.
  107. Bietz JA, Shepherd KW & Wall JS 1975 Cereal single-kernel analysis of glutenin: use in wheat genetics and breeding. *Cereal Chemistry* 52: 513-532.
  108. Bimb HP & Johnson R 1996 Expression of the gene *Pm8* for powdery mildew resistance in wheat cultivars with the 1BL/1RS translocation which carries the gene *Yr9* for yellow rust resistance. 1996 Proceedings of the 9th European & Mediterranean Cereal Rusts & Powdery Mildews Conference, Lunteren, The Netherlands (Kema GHJ, Niks RE & Daamen RA, eds.) . 247
  109. Blanco A & Simeone R 1982 Genetic control of gibberellic acid insensitivity in semidwarf durum wheat (*Triticum durum* Desf.). *Zeitschrift fur Pflanzenzuchtung* 88: 185-190.
  110. Blanco A, De Giovanni C, Laddomada B, Sciancalepore A, Simeone R, Devos KM & Gale MD 1996 Quantitative trait loci influencing grain protein content in tetraploid wheats. *Plant Breeding* 115: 310-316.
  111. Blanco A, Resta P, Simeone R, Parmar S, Shewry PR, Sabelli PW & Lafiandra D 1991 Chromosomal location of seed storage protein genes in the genome of *Daspyrum villosum* (L.) Candargy. *Theoretical and Applied Genetics* 82: 358-362.
  112. Bolton FE 1968 Inheritance of blue aleurone and purple pericarp in hexaploid wheat. *Dissertation Abstracts* 29: 844B *Cited Plant Breeding Abstracts* 40: 2684, p.344.
  113. Bonhomme A, Gale MD, Koebner RMD, Nicolas P, Jahier J & Bernard M 1995 RFLP analysis of an *Aegilops ventricosa* chromosome that carries a gene conferring resistance to leaf rust (*Puccinia recondita*) when transferred to hexaploid wheat. *Theoretical and Applied Genetics* 90: 1042-1048.
  114. Borner A & Mettin D 1988 The genetic control of gibberellic acid insensitivity of the wheat variety Ai-Bian 1. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK* (Miller TE & Koebner RMD eds.): 489-492.
  115. Borner A, Lehmann CO, Mettin D, Plaschke J, Schlegel R, Schlegel G, Melz G & Thiele V 1991 GA-insensitivity of 'Ai-bian 1a'/Pleiotropic effects of isogenic *Rht*-lines. *Annual Wheat Newsletter* 37: 59-60.
  116. Borner A, Plaschke J, Korzun V & Worland AJ 1996 The relationship between the dwarfing genes of wheat and rye. *Euphytica* 89: 69-75.
  117. Borner A, Roder MS & Korzun V 1997 Comparative molecular mapping of GA insensitive *Rht* loci on chromosomes 4B and 4D of common wheat (*Triticum aestivum*). *Theoretical and*

- Applied Genetics 95: 1133-1137.
118. Bosch A, Figueiras AM, Gonzalez-Jaen MT & Benito C 1986 Leaf peroxidases - a biochemical marker for the group 2 chromosomes in the Triticinae. *Genetical Research, Cambridge* 47: 103-107.
  119. Bosch A, Vega C & Benito C 1987 The peroxidase isozymes of the wheat kernel: tissue and substrate specificity and their chromosomal location. *Theoretical and Applied Genetics* 73: 701-706.
  120. Bougri OV, Korzun VN & Grimm B 1996 Chromosomal assignment of the genes encoding glutamyl-tRNA reductase in barley, wheat, and rye and their organization in the barley genome. *Hereditas* 124: 1-6.
  121. Boyd WJR & Lee JW 1967 The control of wheat gluten synthesis at the genome and chromosome level. *Experientia* 23: 332-333.
  122. Bozzini A 1965 Sphaerococcoid, a radiation-induced mutation in *Triticum durum* Desf. In, *Use of Induced Mutations in Plant Breeding. Proceedings of FAO/IAEA Meeting Rome, Italy*: 375-383.
  123. Bozzini A & Scarascia-Mugnozza GT 1967 The dominant short straw mutation induced by thermal neutrons in durum wheat. *Wheat Information Service* 23-24: 5-6.
  124. Branlard G & Le Blanc A 1985 Les sous-unites glutenines de haut poids moleculaire des bles tendres et des bles durs cultives en France. *Agronomie* 5: 467-477.
  125. Branlard G, Autran JC & Monneveux P 1989 High molecular weight glutenin subunit in durum wheat (*T. durum*). *Theoretical and Applied Genetics* 78: 353-358.
  126. Breiman A 1995 Personal communication.
  127. Brennan PS 1983 Hartog. *Journal of the Australian Institute of Agricultural Science* 49: 42.
  128. Brennan PS, Martin DJ, The D & McIntosh RA 1983 Torres. *Journal of the Australian Institute of Agricultural Science* 49: 47.
  129. Bressman EN 1931 Varietal resistance, physiologic specialization and inheritance studies in bunt of wheat. *Oregon Agricultural Experiment Station Bulletin* 281: 44 pp.
  130. Briggles LW 1966 Three loci in wheat involving resistance to *Erysiphe graminis* f. sp. *tritici*. *Crop Science* 6: 461-465.
  131. Briggles LW 1966 Transfer of resistance to *Erysiphe graminis* f. sp. *tritici* from Khapli emmer and Yuma durum to hexaploid wheat. *Crop Science* 6: 459-461.
  132. Briggles LW 1969 Near-isogenic lines of wheat with genes for resistance to *Erysiphe graminis* f. sp. *tritici*. *Crop Science* 9: 70-72.
  133. Briggles LW Personal communication.
  134. Briggles LW & Sears ER *tritici* (*Pm3*) and hairy glume (*Hg*) on chromosome 1A of wheat. 1966 Linkage of resistance to *Erysiphe graminis* f. sp. *Crop Science* 6: 559-561.
  135. Briggs FN 1926 Inheritance of resistance to bunt, *Tilletia tritici*, in wheat. *Journal of Agricultural Research* 32: 973-990.
  136. Briggs FN 1933 A third genetic factor for resistance to bunt, *Tilletia tritici*, in wheat hybrids. *Journal of Genetics* 27: 435-441.
  137. Briggs FN & Holton CS 1950 Reaction of wheat varieties with known genes for resistance to races of bunt, *T. caries* and *T. foetida*. *Agronomy Journal* 42: 483-486.
  138. Brinkmann H, Matinez D, Quigley F, Martin W & Cerff R 1988 Endosymbiotic origin and codon bias of the nuclear gene for chloroplast glyceraldehyde-3-phosphate dehydrogenase from maize. *Journal of Molecular Evolution* 26: 320-328.
  139. Broglie R, Coruzzi G, Lamma G, Kieth B & Chua N-H 1983 Structural analysis of nuclear

- genes coding for the precursor to the small subunit of wheat ribulose-1,5-bisphosphate carboxylase. *Biotechnology* 1: 55-61.
140. Browder LE 1972 Designation of two genes for resistance to *Puccinia recondita* in *Triticum aestivum*. *Crop Science* 12: 705-706.
141. Browder LE 1973 Probable genotype of some *Triticum aestivum* 'Agent' derivatives for reaction to *Puccinia recondita* f. sp. *tritici*. *Crop Science* 13: 203-206.
142. Browder LE 1973 Specificity of the *Puccinia recondita* f. sp. *tritici*: *Triticum aestivum* 'Bulgaria 88' relationship. *Phytopathology* 63: 524-528.
143. Browder LE 1980 A compendium of information about named genes for low reaction to *Puccinia recondita* in wheat. *Crop Science* 20: 775-779.
144. Brown AHD 1980 Genetic basis of alcohol dehydrogenase polymorphism in *Hordeum spontaneum*. *Journal of Heredity* 70: 127-128.
145. Brown AHD 1983 Barley. *Isozymes in Plant Genetics and Breeding*. Elsevier Science Publishers B.V., Amsterdam (Tanksley SD & Orton TJ eds.) Part B: 57-77.
146. Brown AHD & Jacobsen JB 1982 Genetic basis and natural variations of  $\alpha$ -amylase isozymes in barley. *Genetical Research*, Cambridge 40: 315-324.
147. Brown AHD & Munday J 1981 Population-genetic structure and optimal sampling of land races of barley from Iran. *Genetica* 58: 85-96.
148. Brown CM & Jedlinski H 1983 'Roland' wheat. *Crop Science* 23: 1013-1014.
149. Brown GN 1997 The inheritance and expression of leaf chlorosis associated with gene *Sr2* for adult plant resistance to wheat stem rust. *Euphytica* 95: 67-71.
150. Brown JWS, Kemble RJ, Law CN & Flavell RB 1979 Control of endosperm proteins in *Triticum aestivum* (var. Chinese Spring) and *Aegilops umbellulata* by homoeologous group 1 chromosomes. *Genetics* 93: 189-200.
151. Bryan GJ, Collins AJ, Stephenson P, Orry A, Smith JB & Gale MD 1997 Isolation and characterisation of microsatellites from hexaploid bread wheat. *Theoretical and Applied Genetics* 94: 557-563.
152. Bryan WE 1937 Breeding for smut resistance in Arizona-grown wheat. Arizona Agricultural Experiment Station, Technical Bulletin 66: 28 pp.
153. Busch R, Behrans R, Agiez A & Elakkad M 1989 Inheritance of tolerance to, and agronomic effects of, difenzoquet herbicide in spring wheat. *Crop Science* 29: 47-50.
154. Cadalen T, Boeuf C, Bernard S & Bernard M 1997 An intervarietal molecular marker map in *Triticum aestivum* L. em. Thell. and comparison with a map from a wide cross. *Theoretical and Applied Genetics* 94: 367-377.
155. Caldwell RM & Compton LE 1943 Complementary lethal genes in wheat. *Journal of Heredity* 34: 67-70.
156. Caldwell RM, Cartwright WB & Compton LE 1946 Inheritance of Hessian fly resistance derived from W38 and durum P.I.94587. *Journal of the American Society of Agronomy* 38: 398-409.
157. Caldwell RM, Gallun RL & Compton LE 1966 Genetics and expression of resistance to Hessian fly, *Phytophaga destructor* (Say). *Proceedings of the 2nd International Wheat Genetics Symposium Lund 1963* (MacKey J ed.): *Hereditas Suppl.* 2: 462-463.
158. Calon nec A & Johnson R 1998 Chromosomal location of genes for resistance to *Puccinia striiformis* in the wheat line TP1295 selected from the cross of Soissonais-Desprez with Lemhi. *European Journal of Plant Pathology*. 104: 835-847.
159. Campbell AB & Czarnecki EM 1981 Benito hard red spring wheat. *Canadian Journal of*



- Plant Science 61: 145-146.
160. Campbell AB & McGinnis RC 1958 A monosomic analysis of stem rust reaction and awn expression in Redman wheat. *Canadian Journal of Plant Science* 38: 184-187.
161. Carbonero R 1992 Personal communication.
162. Carlson SK, Patterson FL & Gallun RL 1978 Inheritance of resistance to Hessian fly derived from *Triticum turgidum* L. *Crop Science* 18: 1011-1014.
163. Carrillo JM, Vazquez JF & Orellana J 1990 Linkage relationships between the loci *Sec 1* and *Sec 3* in rye. *Heredity* 64: 125-130.
164. Carrillo JM, Vazquez JF & Orellana J 1992 Identification and mapping of the *Gli-R3* locus on chromosome 1R of rye (*Secale cereale* L.). *Theoretical and Applied Genetics* 84: 237-241.
165. Carter MV 1954 Additional genes in *Triticum vulgare* for resistance to *Erysiphe graminis tritici*. *Australian Journal of Biological Sciences* 7: 411-414.
166. Cartwright WB & Wiebe GA 1936 Inheritance of resistance to the Hessian fly in the wheat crosses Dawson x Poso and Dawson x Big Club. *Journal of Agricultural Research* 52: 691-695.
167. Cassidy BG & Dvorak J 1991 Molecular characterization of a low-molecular-weight glutenin cDNA clone from *Triticum durum*. *Theoretical and Applied Genetics* 81: 653-660.
168. Cauderon Y, Autran JC, Joudrier P & Kobrehel K 1978 Identification de chromosomes d' *Agropyron intermedium* impliqués dans la synthèse des gliadines, des beta-amylases et des peroxidases à l'aide de lignées d'addition Ble X *Agropyron*. *Annales d'Amélioration des Plantes* 28: 257-267.
169. Cauderon Y, Saigne B & Dauge M 1973 The resistance to wheat rusts of *Agropyron intermedium* and its use in wheat improvement. *Proceedings of the 4th International Wheat Genetics Symposium* (Sears ER & Sears LMS eds.) University of Missouri, Columbia, USA: 401-407.
170. Causse M, Fulton TM, Cho YG, Ahn SN, Chunwongse J, Wu K, Xiao J, Yu Z, Ronald PC, Harrington SB, Second GA, McCouch SR & Tanksley SD 1994 Saturated molecular map of the rice genome based on an interspecific backcross population. *Genetics* 138: 1251-1274.
171. Cebert E, Ohm H, Patterson F, Ratcliff R & Cambron S 1996 Genetic analysis of Hessian fly resistance in durum wheat. *Agronomy Abstracts* 88: 88.
172. Ceolini C & Galili G 1982 Chromosome arm location and mode of expression of a phosphodiesterase gene from diploid wheat *Triticum longissimum*. *Cereal Research Communications* 10: 151-157.
173. Ceoloni C 1988 Personal communication.
174. Ceoloni C, Del Signore G, Pasquini M & Testa A 1988 Transfer of mildew resistance from *Triticum longissimum* into wheat by *ph1* induced homoeologous recombination. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK* (Miller TE & Koebner RMD eds.): 221-226
175. Chandler P 1995 Personal communication.
176. Chandler PM, Zwar JA, Jacobsen JV, Higgins TJV & Inglis AS 1984 The effects of gibberellic acid and abscisic acid on  $\alpha$ -amylase mRNA levels in barley aleurone layers studied using an  $\alpha$ -amylase cDNA clone. *Plant Molecular Biology* 3: 407-418.
177. Chantachume Y, Rathjen AJ, Paul JG & Shepherd KW 1993 Genetic studies on boron tolerance of wheat. *Focussed Plant Improvement: Towards Responsible and Sustainable Agriculture. Proceedings of the 10th Australian Plant Breeding Conference* (Imrie BC & Hacker JB eds): Volume 2.: 74-75.

178. Chao S, Raines CA, Longstaff M, Sharp PJ, Gale MD & Dyer TA 1989 Chromosomal location and copy number in wheat and some of its close relatives of genes for enzymes involved in photosynthesis. *Molecular and General Genetics* 218: 423-430.
179. Chao S, Sharp PJ & Gale MD 1988 A linkage map of wheat group 7 chromosomes using RFLP markers. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.):* 493-498.
180. Chao S, Sharp PJ, Worland AJ, Koebner RMD & Gale MD 1989 RFLP-based genetic maps of wheat homoeologous group 7 chromosomes. *Theoretical and Applied Genetics* 78: 495-504.
181. Chen XM & Line RF 1992 Identification of stripe rust resistance genes in wheat genotypes used to differentiate North American races of *Puccinia striiformis*. *Phytopathology* 82: 1428-1434.
182. Chen XM & Line RF 1993 Inheritance of stripe rust resistance in wheat cultivars postulated to have resistance gene at *Yr3* and *Yr4* loci. *Phytopathology* 83: 382-388.
183. Chen XM, Jones SS & Line RF 1995 Chromosomal location of genes for stripe rust resistance in spring wheat cultivars Compair, Fielder, Lee and Lemhi and interactions of aneuploid wheats with races of *Puccinia striiformis*. *Phytopathology* 85: 375-381.
184. Chen XM, Jones SS & Line RF 1996 Chromosomal location of genes for resistance to *Puccinia striiformis* in seven wheat cultivars with resistance genes at the *Yr3* and *Yr4* loci. *Phytopathology* 86: 1228-1233.
185. Chen XM, Line RF & Jones SS 1994 Chromosomal location of genes for resistance to *Puccinia striiformis* in wheat cultivars Druchamp, Stephens, and Yamhill. *Phytopathology* 84: 1116.
186. Chen XM, Line RF & Jones SS 1995 Chromosomal location of genes for resistance to *Puccinia striiformis* in winter wheat cultivars Heines VII, Clement, Moro, Tyee, Tres and Daws. *Phytopathology* 85: 1362-1367.
187. Chen Z, Devey M, Tuleen NA & Hart GE 1994 Use of recombinant substitution lines in the construction of RFLP-based genetic maps of chromosomes 6A and 6B of tetraploid wheat (*Triticum turgidum* L.). *Theoretical and Applied Genetics* 89: 703-712.
188. Cheng CL, Dewdney J, Kleinhofs J & Goodman HM 1986 Cloning and nitrate induction of nitrate reductase mRNA. *Proceedings of the National Academy of Sciences, USA* 83: 6825-6828.
189. Chenicek KJ & Hart GE 1987 Identification and chromosomal locations of aconitase gene loci in Triticeae species. *Theoretical and Applied Genetics* 74: 261-268.
190. Cheung WY, Moore G, Money TA & Gale MD 1992 HpaII library indicates 'methylation-free islands' in wheat and barley. *Theoretical and Applied Genetics* 84: 739-746.
191. Chhabra AK & Sethi SK 1991 Inheritance of cleistogamous flowering in durum wheat (*Triticum durum*). *Euphytica* 55: 147-150.
192. Chilosi G & Johnson R 1990 Resistance to races of *Puccinia striiformis* in seedlings of Italian wheats and possible presence of the *Yr6* gene in some durum cultivars. *Journal of Genetics and Breeding* 44: 13-20.
193. Chin TC 1944 The inheritance of some quantitative characters in the interspecific crosses of wheat. *Chinese Journal of Science and Agriculture* 1: 204-217.
194. Chinoy CN, Devos KM, Bringloe D, Gray JC, Gale MD & Dyer TA 1991 Chromosomal location of the genes for ferredoxin in wheat, barley and rye. *Theoretical and Applied Genetics* 82: 1-2.
195. Chojecki AJS & Gale MD 1982 Genetic control of glucose phosphate isomerase in wheat

- and related species. *Heredity* 49: 339-349.
196. Chojecki AJS, Gale MD, Holt LM & Payne PI 1983 The intrachromosomal mapping of a glucose phosphate isomerase structural gene, using allelic variation among stocks of Chinese Spring wheat. *Genetical Research, Cambridge* 41: 221-226.
  197. Cholick FA, Buchenau GW & Sellers KM 1990 Registration of 'Prospect' wheat. *Crop Science* 30: 233-234.
  198. Cholick FA, Hatchett JH, Steiger DK, Buchanan GW & Sellers KM 1988 Registration of 'Shield' wheat. *Crop Science* 28: 720-721.
  199. Choudhuri HC 1958 The inheritance of stem and leaf rust resistance in common wheat. *Indian Journal of Genetics* 18: 90-115.
  200. Christopher DA, Atsmon D & Feldman M 1985 Mode of inheritance and chromosomal allocation of stunting genes in common wheat. *Crop Science* 25: 147-151.
  201. Chung YS & Griffey CA 1995 Powdery mildew resistance in winter wheat II. Identity of resistance genes. *Crop Science* 35: 383-388.
  202. Churchward JG 1931 Studies on the inheritance of resistance to bunt in a cross between Florence and Hard Federation wheats. *Journal of the Royal Society of New South Wales* 64: 298-319.
  203. Churchward JG 1932 Inheritance of resistance to bunt, *Tilletia tritici* (Bjerk) Winter, and other characters in certain crosses of "Florence wheat". *Proceedings of the Linnaean Society of New South Wales* 57: 133-147.
  204. Churchward JG 1938 Studies on physiologic specialization of the organisms causing bunt in wheat and the genetics of resistance to this and certain other wheat diseases. Part II Genetical studies. *Journal of the Royal Society of New South Wales* 71: 547-590.
  205. Ciaffi M, Lafiandra D, Porceddu E & Benedettelli S 1993 Storage-protein variation in wild emmer wheat (*Triticum turgidum* ssp. *dicoccoides*) from Jordan and Turkey. I. Electrophoretic characterization of genotypes. *Theoretical and Applied Genetics* 86: 474-480.
  206. Clark JA, Quisenberry KS & Powers L 1933 Inheritance of bunt reaction and other characters in Hope wheat crosses. *Journal of Agricultural Research* 46: 413-425.
  207. Clarke BC, Stancombe P, Money T, Foote T & Moore G 1992 Targeting deletion (homoeologous chromosome pairing locus) or addition line single copy sequences from cereal genomes. *Nucleic Acids Research* 20: 1289-1292.
  208. Claude PP, Dyck PL & Evans LE 1986 An evaluation of 391 spring wheat introductions for resistance to stem rust and leaf rust. *Canadian Journal of Plant Pathology* 8: 132-139.
  209. Close S, Kortt AA & Chandler PM 1989 A cDNA-based comparison of dehydration-induced proteins (dehydrins) in barley and corn. *Plant Molecular Biology* 13: 95-108.
  210. Close TJ & Chandler PM 1990 Cereal dehydrins; serology, gene mapping and potential functional roles. *Australian Journal of Plant Physiology* 17: 333-334.
  211. Coe EH & Neuffer MG 1993 Gene loci and linkage map of corn (maize) (*Zea mays*) (2N=20). In: *Genetic Maps 6*. (O'Brien SJ ed.). Cold Spring Harbor Laboratory Press, Cold Spring Harbor: 157-189.
  212. Collinge D 1994 Personal Communication.
  213. Cone KC, Burr FA & Burr B 1986 Molecular analysis of the maize anthocyanin regulatory locus C1. *Proceedings of the National Academy of Sciences, USA* 83: 9631-9635.
  214. Copp LGL 1965 Purple grain in hexaploid wheat. *Wheat Information Service* 18: 19-20.
  215. Cox TS 1991 Personal communication.

216. Cox TS 1991 The contribution of introduced germplasm to the development of U.S. wheat cultivars. In: Use of Plant Introductions in Cultivar Development, Part I, Crop Science Society of America Special Publication No. 17: 25-47.
217. Cox TS & Hatchett JH 1994 Resistance gene *H26* transferred from diploid goatgrass to common wheat. *Crop Science* 34: 958-960.
218. Cox TS, Raupp WJ & Gill BS 1993 Leaf rust-resistance genes *Lr41*, *Lr42* and *Lr43* transferred from *Triticum tauschii* to common wheat. *Crop Science* 34: 339-343.
219. Cox TS, Sears RG & Gill BS 1991 Registration of KS87UP9, a winter wheat germplasm segregating for a dominant male sterility gene. *Crop Science* 31: 247.
220. Cox TS, Sears RG & Gill BS 1992 Registration of KS90WGRC10 leaf rust-resistant red winter wheat germplasm. *Crop Science* 32: 506.
221. Crosby AR 1957 Nucleolar activity of lagging chromosomes in wheat. *American Journal of Botany* 44: 813-822.
222. Curtis BC, Schlehner AM & Wood EA 1960 Genetics of greenbug (*Toxoptera graminum* Rond.) resistance in two strains of common wheat. *Agronomy Journal* 52: 599-602.
223. Curtis C & Feldman M 1988 Increased proximal recombination frequency in common wheat by premeiotic colchicine treatment. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 243-248.*
224. Curtis CA & Lukaszewski AJ 1991 Genetic linkage between C-bands and storage proteins in chromosome 1B of tetraploid wheat. *Theoretical and Applied Genetics* 81: 245-252.
225. Curtis CA & Lukaszewski AJ 1993 Localization of genes in rye that restore male fertility to hexaploid wheat with *timopheevi* cytoplasm. *Plant Breeding* 111: 106-112.
226. Czarnecki EM & Lukow OM 1992 Linkage of stem rust resistance gene *Sr33* and the gliadin (*Gli-D1*) locus on chromosome 1DS. *Genome* 35: 565-568.
227. Dabrowska T 1983 Studies on chromosomal location of genes involved in beta-amylase isozymes in wheat kernels (*Triticum aestivum* L.). *Genetica Polonica* 24: 9-19.
228. De la Pena RC, Murray TD & Jones SS 1996 Linkage relations among eyespot resistance gene *Pch2*, endopeptidase *Ep-A1b* and RFLP marker *Xpsr121* on chromosome 7A of wheat. *Plant Breeding* 115: 273-.
229. De la Pena RC, Murray TD & Jones SS 1997 Identification of an RFLP interval containing *Pch2* on chromosome 7AL in wheat. *Genome* 40: 249-252.
230. De Vallavieille-Pope C, Picard-Formery H, Radulovic S & Johnson R 1990 Specific resistance factors to yellow rust in seedlings of some French varieties and races of *Puccinia striiformis* Westend in France. *Agronomie* 2: 103-113.
231. Dedryver F, Jubier MF, Thouvenin J & Goyeau H 1996 Molecular markers linked to the leaf rust resistance gene *Lr24* in different wheat cultivars. *Genome* 39: 830-835.
232. Delaney DE, Nasuda S, Endo TR, Gill BS & Hulbert SH 1995 Cytologically based physical maps of the group-2 chromosomes of wheat. *Theoretical and Applied Genetics* 91: 568-573.
233. Delaney DE, Nasuda S, Endo TR, Gill BS & Hulbert SH 1995 Cytologically based physical maps of the group 3 chromosomes of wheat. *Theoretical and Applied Genetics* 91: 780-782.
234. Delhaize E, Craig S, Beaton CD, Bennet RJ, Jagadish VC & Randall PJ 1993 Aluminum tolerance in wheat (*Triticum aestivum* L.) 1. Uptake and distribution of aluminum in root species. *Plant Physiology* 103: 685-693.
235. Delibes A, Del Morala J, Martin-Sanchez JA, Mejias A, Gallego M, Casado D, Sin E & Lopez-Brana I 1997 Hessian fly-resistance gene transferred from chromosome 4M<sup>v</sup> of *Aegilops ventricosa* to *Triticum aestivum*. *Theoretical and Applied Genetics* 94: 858-864.

236. Delibes A, Lopez-Brana I, Mana M & Garcia-Olmedo F 1988 Present progress in the characterization of *Triticum aestivum/Aegilops ventricosa* transfer lines. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 249-252.
237. Delibes A, Otero C & Garcia-Olmedo F 1981 Biochemical markers associated with two M<sup>v</sup> chromosomes from *Aegilops ventricosa* in wheat - *Aegilops* addition lines. Theoretical and Applied Genetics 60: 5-10.
238. Delibes A, Romero D, Aguaded S, Duce A, Mena M, Lopez-Brana I, Andres M-F, Martin-Sanchez JA & Garcia-Olmedo F 1993 Resistance to the cereal cyst nematode (*Heterodera avenae* Woll.) transferred from the wild grass *Aegilops ventricosa* to hexaploid wheat by a "stepping-stone" procedure. Theoretical and Applied Genetics 87: 402-408.
239. Demeke T, Laroche A & Gaudet DA 1996 A DNA marker for the *Bt-10* common bunt resistance gene in wheat. Genome 39: 51-55.
240. Deng JY & Gao ZL 1982 Discovery and determination of a dominant male-sterile gene and its importance in genetics and wheat breeding. Scientia Sinica (Series B) 25: 508-516.
241. DePace C, Benedettelli S, Qualset C, Hart GE, Scarascia Mugnosa GT, Delre V & Vittori D 1988 Biochemical markers in *Triticum x Dasypyrum* amphiploids and derived disomic addition lines. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 503-510.
242. Depace C, Montebone L, Delre V, Jan CC, Qualset CO & Scarascia Mugnozza GT 1988 Biochemical versatility of amphiploids derived from crossing *Dasypyrum villosum* Candargy and wheat: genetic control and phenotypical aspects. Theoretical and Applied Genetics 76: 513-529.
243. Derera NF 1982 The harmful harvest rain. Journal of the Australian Institute of Agricultural Science 48: 67-75.
244. Deureiller E, van Ginkel M & Thizssen M 1993 Genetic analysis of resistance to bacterial leaf streak caused by *Xanthomonas campestris* pv *undulosa* in bread wheat. Euphytica 66: 35-43.
245. Devey ME & Hart GE 1993 Chromosomal localization of intergenomic RFLP loci in hexaploid wheat. Genome 36: 913-918.
246. Devos KM 1996 Personal communication.
247. Devos KM & Gale MD 1993 Extended genetic maps of the homoeologous group 3 chromosomes of wheat, rye and barley. Theoretical and Applied Genetics 85: 649-652.
248. Devos KM, Atkinson MD, Chinoy CN, Guiltan MJ, Quatrano RS & Gale MD 1991 Chromosomal location and variability in wheat, barley and rye of a wheat gene encoding a bZIP protein (*EmBP-1*). Theoretical and Applied Genetics 82: 665-667.
249. Devos KM, Atkinson MD, Chinoy CN, Harcourt RL, Koebner RMD, Liu CJ, Masojc P, Xie DX & Gale MD 1993 Chromosome rearrangements in the rye genome relative to that of wheat. Theoretical and Applied Genetics 85: 673-680.
250. Devos KM, Atkinson MD, Chinoy CN, Liu C & Gale MD 1992 RFLP based genetic map of the homoeologous group 3 chromosomes of wheat and rye. Theoretical and Applied Genetics 83: 931-939.
251. Devos KM, Atkinson MD, Chinoy CN, Lloyd JC, Raines CA, Dyer TA & Gale MD 1992 The coding sequence for sedoheptulose-1,7-bisphosphatase detects multiple homologues in wheat genomic DNA. Theoretical and Applied Genetics 85: 133-135.
252. Devos KM, Bryan GJ, Collins AJ, Stephenson P & Gale MD 1995 Application of two microsatellite sequences in wheat storage proteins as molecular markers. Theoretical and

- Applied Genetics 90: 247-252.
253. Devos KM, Chao S, Li QY, Simonetti MC & Gale MD 1994 Relationship between chromosome 9 of maize and wheat homoeologous group 7 chromosomes. *Genetics* 138: 1287-1292.
254. Devos KM, Chinoy CN, Atkinson MD, Hansen L, von Wettstein-Knowles P & Gale MD 1991 Chromosomal location in wheat of the genes coding for the acyl carrier proteins 1 and 111. *Theoretical and Applied Genetics* 82: 3-5.
255. Devos KM, Dubcovsky J, Dvorak J, Chinoy CN & Gale MD 1995 Structural evolution of wheat chromosomes 4A, 5A and 7B and its impact on recombination. *Theoretical and Applied Genetics* 91: 282-288.
256. Devos KM, Millan T & Gale MD 1993 Comparative RFLP maps of the homoeologous group 2 chromosomes of wheat, rye and barley. *Theoretical and Applied Genetics* 85: 784-792.
257. Dhaliwal HS, Sharma SK & Randhawa AS 1986 How to overcome hybrid necrosis in wheat. *Wheat Information Service* 61: 27-28.
258. Doan NP & Fincher GB 1988 The A- and B-chains of carboxypeptidase I from germinated barley originate from a single precursor polypeptide. *Journal of Biological Chemistry* 263: 11106-11110.
259. Dong H & Quick JS 1995 Inheritance and allelism of resistances to the Russian wheat aphid in seven wheat lines. *Euphytica* 81: 299-303.
260. Dong H, Quick JS & Zhang Y 1997 Inheritance and allelism of Russian wheat aphid resistance in several wheat lines. *Plant Breeding* 116: 449-453.
261. Doussinault G, Delibes A, Sanchez-Monge R & Garcia-Olmedo F 1983 Transfer of a dominant gene for resistance to eyespot disease from a wild grass to hexaploid wheat. *Nature* 303: 698-700.
262. D'Ovidio R & Porceddu E 1996 PCR-based assay for detecting 1B-genes for low molecular weight glutenin subunits related to gluten quality properties in durum wheat. *Plant Breeding* 115: 413-415.
263. D'Ovidio R, Masci S & Porceddu E 1995 Development of a set of oligonucleotide primers specific for genes at the *Glu-1* complex of wheat. *Theoretical and Applied Genetics* 91: 189-194.
264. D'Ovidio R, Simeone M, Masci S & Porceddu E 1997 Molecular characterization of a LMW-GS gene located on chromosome 1B and the development of primers specific for the *Glu-B3* complex locus in durum wheat. *Theoretical and Applied Genetics* 95: 1119-1126.
265. Dratewka-Kos E, Rahman S, Grzelczak ZF, Kennedy TD, Murray R & Lane BG 1989 Polypeptide structure of germin as deduced from cDNA sequencing. *Journal of Biological Chemistry* 264: 4896-4900.
266. Drefahl S & Bushbeck R 1991 Gene localization of aspartate aminotransferase and endopeptidase isozymes in wheat and rye using developmental and organ-specific patterns. *Plant Breeding* 107: 218-225.
267. Driscoll CJ 1966 Gene-centromere distances in wheat by aneuploid F2 observations. *Genetics* 54: 131-135.
268. Driscoll CJ 1975 Cytogenetic analysis of two chromosomal male-sterility mutants in hexaploid wheat. *Australian Journal of Biological Sciences* 28: 413-416.
269. Driscoll CJ Personal communication.
270. Driscoll CJ & Anderson LM 1967 Cytogenetic studies of Transec-a wheat-rye translocation line. *Canadian Journal of Genetics and Cytology* 9: 375-380.

271. Driscoll CJ & Bielig LM 1968 Mapping of the Transec wheat-rye translocation. *Canadian Journal of Genetics and Cytology* 10: 421-425.
272. Driscoll CJ & Jensen NF 1964 Chromosomes associated with waxlessness, awnedness and time of maturity of common wheat. *Canadian Journal of Genetics and Cytology* 6: 324-333.
273. Driscoll CJ & Jensen NF 1965 Release of a wheat-rye translocation stock involving leaf rust and powdery mildew resistances. *Crop Science* 5: 279-280.
274. Driscoll CJ & Sears ER 1963 The nature of a spontaneous transfer of hairy neck from rye to wheat. *Proceedings of the XI International Congress of Genetics The Hague* 1: 123.
275. Driscoll CJ & Sears ER 1965 Mapping of a wheat-rye translocation. *Genetics* 51: 439-443.
276. Dubcovsky J & Dvorak J 1995 Ribosomal RNA multigene loci: nomads of the Triticeae genomes. *Genetics* 140: 1367-1377.
277. Dubcovsky J, Echaide M, Giancola S, Rousset M, Luo MC, Joppa LR & Dvorak J 1997 Seed-storage-protein loci in RFLP maps of diploid, tetraploid, and hexaploid wheat. *Theoretical and Applied Genetics* 95: 1169-1180.
278. Dubcovsky J, Galvez AF & Dvorak J 1994 Comparison of the genetic organization of the early salt-stress responsive wheat. *Theoretical and Applied Genetics* 87: 957-964.
279. Dubcovsky J, Lijavetzky D, Appendino L, Tranquilli G & Dvorak JD 1998 Comparative RFLP mapping of *Triticum monococcum* genes controlling vernalization requirement. *Theoretical and Applied Genetics*. 97: 968-975
280. Dubcovsky J, Luo M-C & Dvorak J 1995 Differentiation between homoeologous chromosomes 1A of wheat and 1A<sup>m</sup> of *Triticum monococcum* and its recognition by the wheat *Ph1* locus. *Proceedings of the National Academy Sciences, USA* 92: 6645-6649.
281. Dubcovsky J, Luo M-C & Dvorak J 1995 Linkage relationships among stress-induced genes in wheat. *Theoretical and Applied Genetics* 91: 795-801.
282. Dubcovsky J, Luo, M-C, Zhong G-Y, Bransteitter R, Desai A, Kilian A, Kleinhofs A & Dvorak J 1996 Genetic map of diploid wheat, *Triticum monococcum* L., and its comparison with maps of *Hordeum vulgare* L. *Genetics* 143: 983-999.
283. Dubcovsky J, Santa Maria G, Epstein E, Luo M-C & Dvorak J 1996 Mapping of the K<sup>+</sup>/Na<sup>+</sup> discrimination locus *Kna1* in wheat. *Theoretical and Applied Genetics* 92: 448-454.
284. Dubin HJ, Johnson R & Stubbs RW 1989 Postulated genes to stripe rust in selected CIMMYT and related wheats. *Plant Disease* 73: 472-475.
285. DuPont FM 1995 Personal communication.
286. DuToit F 1989 Inheritance of resistance in two *Triticum aestivum* lines to Russian wheat aphid (*Homoptera : Aphididea*). *Journal of Economic Entomology* 82: 1251-1253.
287. DuToit F, Wessels WG & Marais GF 1995 The chromosome arm location of Russian wheat aphid resistance gene *Dn5*. *Cereal Research Communications* 23: 15-17.
288. Dvorak J & Appels R 1986 Investigation of homoeologous crossing over and sister chromatid exchange in the wheat NOR-B2 locus coding for rRNA and GLI-B2 locus coding for gliadins. *Genetics* 113: 1037-1056.
289. Dvorak J & Chen KC 1984 Distribution of nonstructural variation between wheat cultivars along chromosome arm 6Bp: evidence from the linkage map and physical map of the arm. *Genetics* 106: 325-333.
290. Dvorak J & Gorham J 1992 Methodology of gene transfer by homoeologous recombination into *Triticum turgidum*: Transfer of K<sup>+</sup>/Na<sup>+</sup> discrimination from *Triticum aestivum*. *Genome* 35: 639-646.
291. Dvorak J & Knott DR 1977 Homoeologous chromatin exchange in a radiation-induced gene

- transfer. *Canadian Journal of Genetics and Cytology* 19: 125-131.
292. Dvorak J & Knott DR 1990 Location of a *Triticum speltoides* chromosome segment conferring resistance to leaf rust in *Triticum aestivum*. *Genome* 33: 892-897.
293. Dvorak J, Dubcovsky J, Luo MC, Devos KM & Gale MD 1995 Differentiation between wheat chromosomes 4B and 4D. *Genome* 38: 1139-1147.
294. Dvorak J, Lassner MW, Kota RS & Chen KC 1984 The distribution of the ribosomal RNA genes in the *Triticum speltoides* and *Elytrigia elongata* genomes. *Canadian Journal of Genetics and Cytology* 26: 628-632.
295. Dvorak J, Zhang H-B, Kota RS & Lassner M 1989 Organisation and evolution of the 5S ribosomal RNA gene family in wheat and related species. *Genome* 32: 1003-1016.
296. Dweikat I, Ohm H, Paterson F & Cambron S 1997 Identification of RAPD markers for 11 Hessian fly resistance genes in wheat. *Theoretical and Applied Genetics* 94: 419-423.
297. Dyck PL 1977 Genetics of leaf rust reaction in three introductions of common wheat. *Canadian Journal of Genetics and Cytology* 19: 711-716.
298. Dyck PL 1979 Identification of the gene for adult-plant leaf rust resistance in Thatcher. *Canadian Journal of Plant Science* 59: 499-501.
299. Dyck PL 1987 The association of a gene for leaf rust resistance with the chromosome 7D suppressor of stem rust resistance in common wheat. *Genome* 29: 467-469.
300. Dyck PL 1989 The inheritance of leaf rust resistance in wheat cultivars Kenyon and Buck Manantial. *Canadian Journal of Plant Science* 69: 1113-1117.
301. Dyck PL 1991 Genetics of adult plant leaf rust resistance in 'Chinese Spring' and 'Sturdy' wheats. *Crop Science* 24: 309-311.
302. Dyck PL 1992 Transfer of a gene for stem rust resistance from *Triticum araraticum* to hexaploid wheat. *Genome* 35: 788-792.
303. Dyck PL 1993 Inheritance of leaf rust and stem rust resistance in 'Robin' wheat. *Genome* 36: 289-293.
304. Dyck PL 1993 The inheritance of leaf rust resistance in the wheat cultivar Pasqua. *Canadian Journal of Plant Science* 73: 903-906.
305. Dyck PL 1994 Genetics of leaf rust resistance in 13 accessions of the Watkins wheat collection. *Euphytica* 80: 151-155.
306. Dyck PL Personal communication.
307. Dyck PL & Friebe B 1993 Evaluation of leaf rust resistance from wheat chromosomal translocation lines. *Crop Science* 33: 687-690.
308. Dyck PL & Green GJ 1970 Genetics of stem rust resistance in wheat cultivar 'Red Bobs'. *Canadian Journal of Plant Science* 50: 229-232.
309. Dyck PL & Jedel PE 1989 Genetics of resistance to leaf rust in two accessions of common wheat. *Canadian Journal of Plant Science* 69: 531-534.
310. Dyck PL & Johnson R 1988 Resistance to the leaf rust or brown rust pathogen (*Puccinia recondita*) due to *Lr20* and its temperature sensitivity in European spring wheats. *Proceedings of the 7th European and Mediterranean Cereal Rusts Conference Vienna, Austria* (Zwatz B. ed.): 91-93.
311. Dyck PL & Kerber ER 1970 Inheritance in hexaploid wheat of adult-plant leaf rust resistance derived from *Aegilops squarrosa*. *Canadian Journal of Genetics and Cytology* 12: 175-180.
312. Dyck PL & Kerber ER 1971 Chromosome location of three genes for leaf rust resistance in common wheat. *Canadian Journal of Genetics and Cytology* 13: 480-483.



313. Dyck PL & Kerber ER 1977 Chromosome location of gene *Sr29* for reaction to stem rust. *Canadian Journal of Genetics and Cytology* 19: 371-373.
314. Dyck PL & Kerber ER 1977 Inheritance of leaf rust resistance in wheat cultivars Rafaela and EAP 26127 and chromosome location of gene *Lr17*. *Canadian Journal of Genetics and Cytology* 19: 355-358.
315. Dyck PL & Kerber ER 1981 Aneuploid analysis of a gene for leaf rust resistance derived from the common wheat cultivar Terenzio. *Canadian Journal of Genetics and Cytology* 23: 405-409.
316. Dyck PL & Lukow OM 1988 The genetic analysis of two interspecific sources of leaf rust resistance and their effect on the quality of common wheat. *Canadian Journal of Plant Science* 68: 633-639.
317. Dyck PL & Samborski DJ 1968 Genetics of resistance to leaf rust in the common wheat varieties Webster, Loros, Brevit, Carina, Malakoff and Centenario. *Canadian Journal of Genetics and Cytology* 10: 7-17.
318. Dyck PL & Samborski DJ 1968 Host-parasite interactions involving two genes for leaf rust resistance in wheat. *Proceedings of the 3rd International Wheat Genetics Symposium Australian Academy of Science, Canberra (Findlay KW & Shepherd KW eds.): 245-250.*
319. Dyck PL & Samborski DJ 1970 The genetics of two alleles for leaf rust resistance at the *Lr14* locus in wheat. *Canadian Journal of Genetics and Cytology* 8: 689-694.
320. Dyck PL & Samborski DJ 1974 Inheritance of virulence in *Puccinia recondita* of alleles at the *Lr2* locus for resistance in wheat. *Canadian Journal of Genetics and Cytology* 16: 323-332.
321. Dyck PL & Samborski DJ 1982 The inheritance of resistance to *Puccinia recondita* in a group of common wheat cultivars. *Canadian Journal of Genetics and Cytology* 24: 273-283.
322. Dyck PL & Sykes EE 1994 Genetics of leaf-rust resistance in three spelt wheats. *Canadian Journal of Plant Science* 74: 231-233.
323. Dyck PL & Sykes EE 1995 The inheritance of stem rust and leaf rust resistance in some Ethiopian wheat cultivars. *Euphytica* 81: 291-297.
324. Dyck PL, Kerber ER & Aung T 1994 An interchromosomal reciprocal translocation in wheat involving leaf rust resistance gene *Lr34*. *Genome* 37: 556-559.
325. Dyck PL, Kerber ER & Lukow OM 1987 Chromosome location and linkage of a new gene (*Lr33*) for reaction to *Puccinia recondita*. *Genome* 29: 463-466.
326. Dyck PL, Samborski DJ & Anderson RG 1966 Inheritance of adult plant leaf rust resistance derived from the common wheat varieties Exchange and Frontana. *Canadian Journal of Genetics and Cytology* 8: 665-671.
327. Dyck PL, Samborski DJ & Martens JW 1985 Inheritance of resistance to leaf rust and stem rust in the wheat cultivar Glenlea. *Canadian Journal of Plant Pathology* 7: 351-354.
328. Eastwood RF, Lagudah ES & Appels R 1994 A directed search for DNA sequences, tightly linked to cereal cyst nematode resistance genes in *Triticum tauschii*. *Genome* 37: 311-319.
329. Eastwood RF, Lagudah ES, Halloran GM, Brown JS, Kollmorgan JF & Appels R 1993 Resistance to cereal cyst nematode in *Triticum tauschii*. *In Focussed Plant Improvement: Towards Responsible and Sustainable Agriculture, Volume 2 Proceedings of the 10th Australian Plant Breeding Conference, Gold Coast 1993 (Imrie BC and Hacker JB ed): 7-18.*
330. Eizenga GC 1987 Locating the *Agropyron* segment in wheat-*Agropyron* transfer no. 12. *Genome* 29: 365-366.
331. El-Bedewy R & Robbelen G 1982 Chromosomal location and change of dominance of a gene for resistance against yellow rust, *Puccinia striiformis* West., in wheat, *Triticum*

- aestivum* L. Zeitschrift fur Pflanzenzuchtung 89: 145-157.
332. Elkeles A, Devos KM, Graur D, Zizi M & Breiman A 1995 Multiple cDNAs of wheat voltage-dependent anion channels (VDAC): Isolation, differential expression, mapping and evolution. *Plant Molecular Biology* 29: 109-124.
333. Endo TR 1979 On the *Aegilops* chromosome having gametocidal action on common wheat. *Proceedings of the 5th International Wheat Genetics Symposium, New Delhi, 1978* (Ramanujam S ed.): 306-314.
334. Endo TR 1982 Gametocidal chromosomes of three *Aegilops* species in common wheat. *Canadian Journal of Genetics and Cytology* 24: 201-206.
335. Endo TR 1985 Two types of gametocidal chromosomes of *Aegilops sharonensis* and *Ae. longissima*. *Japanese Journal of Genetics* 60: 125-135.
336. Endo TR 1988 Induction of chromosome structural changes by a chromosome of *Aegilops cylindrica* L. in common wheat. *Journal of Heredity* 79: 366-370.
337. Endo TR & Katayama Y 1978 Finding a selectively retained chromosome of *Aegilops caudata* L. in common wheat. *Wheat Information Service* 47-48: 32-35.
338. Endo TR & Tsunewaki K 1975 Sterility of common wheat with *Aegilops triuncialis* cytoplasm. *Journal of Heredity* 66: 13-18.
339. Erpelding JE, Blake NK, Blake TK & Talbert LE 1996 Transfer of sequence tagged site PCR markers between wheat and barley. *Genome* 39: 802-810.
340. Espelund M, Saeboe-Larssen S, Hughes DW, Galau GA, Larsen F & Jakobsen KS 1992 Late embryogenesis-abundant genes encoding proteins with different numbers of hydrophilic repeats are regulated differentially by abscisic acid and osmotic stress. *The Plant Journal* 2: 241-252.
341. Everson EH, Freed RD, Zwer PK, Morrison LW, Marchetti BL, Clayton JL, Gallun RL & Yamazaki WT 1986 Registration of 'Frankenmuth' wheat. *Crop Science* 26: 202-203.
342. Ezzahiri B & Roelfs AP 1989 Inheritance and expression of adult plant resistance to leaf rust in Era wheat. *Plant Disease* 73: 549-551.
343. Falk DE & Kasha KJ 1983 Genetic studies on the crossability of hexaploid wheat with rye and *Hordeum bulbosum*. *Theoretical and Applied Genetics* 64: 303-307.
344. Faris JD 1996 *Tsc1* for tan spot resistance. Personal communication.
345. Faris JD 1997 Personal communication.
346. Faris JD, Anderson JA, Francl LJ & Jordahl JG 1996 Chromosomal location of a gene conditioning insensitivity in wheat to a necrosis-inducing culture filtrate from *Pyrenophora tritici-repentis*. *Phytopathology* 86: 459-463.
347. Favret EA 1979 Personal communication.
348. Favret EA & Vallega J 1954 (Genetics of resistance to *Erysiphe graminis* in wheat.). *Review of Investigative Agriculture, Buenos Aires* 8: 105-110. *Cited Plant Breeding Abstracts* 26: 1174, p. 203.
349. Fedak G & Yui PY 1982 Chromosomes of Chinese Spring wheat carrying genes for crossability with Betzes barley. *Canadian Journal of Genetics & Cytology* 24: 227-233.
350. Felix I, Martinant JP, Bernard M & Bernard S 1996 Genetic characterization of storage proteins in a set of F<sub>1</sub>-derived haploid lines in bread wheat. *Theoretical & Applied Genetics* 92: 340-346.
351. Fernandez de Caleyra R, Hernandez-Lucas C, Carbonera P & Garcia-Olmedo F 1976 Gene expression in allopolyploids: genetic control of lipopurothionins in wheat. *Genetics* 83: 687-699.
352. Fernandez JA & Jouve N 1987 Chromosomal location of structural genes controlling

- isozymes in *Hordeum chilense*.1. 6-Phosphogluconate dehydrogenase and malate dehydrogenase. *Theoretical & Applied Genetics* 73: 433-439.
353. Fernandez JA & Jouve N 1987 Chromosomal location of structural genes controlling isozymes in *Hordeum chilense*.3. Esterases, glutamate oxaloacetate transaminase and phosphoglucomutase. *Theoretical & Applied Genetics* 73: 690-698.
354. Feuillet C, Messmer M, Schachermayr G & Keller B 1995 Genetic and physical characterisation of the *Lr1* leaf rust resistance locus in wheat (*Triticum aestivum* L.). *Molecular & Genetical Genetics* 248: 553-562.
355. Feuillet C, Schachermayr G & Keller B 1997 Molecular cloning of a new receptor-like kinase gene encoded at the *Lr10* disease resistance locus of wheat. *The Plant Journal* 11: 45-52.
356. Feuillet C, Schachermayr GM & Keller B 1997 Molecular cloning of a new receptor-like kinase gene encoded at the *Lr10* disease resistance locus of wheat. *The Plant Journal* 11: 45-52.
357. Fick GN & Qualset CO 1973 Genes for dwarfness in wheat, *Triticum aestivum* L. *Genetics* 75: 531-539.
358. Fick GN & Qualset CO 1973 Inheritance and distribution of grass-dwarfing genes in short-statured wheats. *Crop Science* 13: 31-33.
359. Fick GN & Qualset CO 1975 Genetic control of endosperm amylase activity and gibberellic acid responses in standard-height and short-statured wheats. *Proceedings of the National Academy of Sciences, USA* 72: 892-895.
360. Figueiras AM, Elorrieta MA & Benito C 1991 Genetic and cytogenic maps of chromosomes 1R, 4R and 7R in cultivated rye (*Secale cereale*). *Genome* 34: 681-685.
361. Figueiras AM, Gonzalez-Jaen MT & Benito C 1986 Biochemical evidence of homoeology between *Triticum aestivum* and *Agropyron intermedium* chromosomes. *Theoretical & Applied Genetics* 72: 826-832.
362. Figueiras AM, Zaragoza C, Gallego FJ & Benito C 1991 NADH dehydrogenase a new molecular marker for homoeology group 4 in Triticeae. A map of the 4RS chromosome arm in rye. *Theoretical & Applied Genetics* 83: 169-172.
363. Fincher G 1991 Personal communication.
364. Fisher J Personal communication.
365. Fitzgerald PM, Caldwell RM & Nelson OE 1957 Inheritance of resistance to certain races of leaf rust in wheat. *Agronomy Journal* 49: 539-543.
366. Flavell RB & O'Dell M 1976 Ribosomal RNA genes on homoeologous chromosomes of group 5 and 6 in hexaploid wheat. *Heredity* 37: 377-385.
367. Flavell RB & Smith DB 1974 The role of homoeologous group 1 chromosomes in the control of rRNA genes in wheat. *Biochemical Genetics* 12: 271-279.
368. Fletcher RJ 1983 Takari. *Journal of the Australian Institute of Agricultural Science* 49: 46.
369. Fletcher RJ & McIntosh RA 1971 Unpublished.
370. Flintham JE & Humphray SJ 1993 Red coat genes and wheat dormancy. *Annals of Applied Biology* 36: 135-141.
371. Flintham JE, Borner A, Worland AJ & Gale MD 1997 Optimising wheat grain yield: effects of *Rht* (gibberellin-insensitive) dwarfing genes. *Journal of Agricultural Science* 128: 11-25.
372. Forde BG, Kreis M, Williamson MS, Fry RP, Pywell J, Shewry PR, Bunce N & Mifflin BJ 1985 Short tandem repeats shared by B- and C-hordein cDNAs suggest a common evolutionary origin for two groups of cereal storage protein genes. *EMBO Journal* 4: 9-15.

373. Forde J, Malpica JM, Halford NG, Shewry PR, Anderson OD, Greene FC & Mifflin BJ 1985 The nucleotide sequence of an HMW glutenin subunit gene located on chromosome 1A of wheat (*Triticum aestivum* L.). *Nucleic Acids Research* 13: 6817-6832.
374. Forster BP, Reader SM, Forsyth SA, Koebner RMD, Miller TE, Gale MD & Cauderon Y 1987 An assessment of the homoeology of six *Agropyron intermedium* chromosomes added to wheat. *Genetical Research, Cambridge* 50: 91-97.
375. Foster JE, Gallun RL, Patterson FL & Ohm HW 1987 Registration of common wheat germplasm resistant to Hessian fly. *Crop Science* 27: 374.
376. Frankel OH 1950 A polymeric multiple gene change in hexaploid wheat. *Heredity* 4: 103-116.
377. Frankel OH & Roskams M 1975 Stability of floral differentiation in *Triticum*. *Proceedings of the Royal Society of London, B*. 188: 139-162.
378. Frankel OH, Shineberg B & Munday A 1969 The genetic basis of an invariant character in wheat. *Heredity* 24: 571-591.
379. Friebe B 1992 Personal communication.
380. Friebe B 1994 Personal communication.
381. Friebe B, Gill BS, Cox TS & Zeller FJ 1993 Registration of KS91WGRC14 stem rust and powdery mildew resistant T1BL.1RS durum wheat germplasm. *Crop Science* 33: 220.
382. Friebe B, Gill BS, Tuleen NA & Cox TS 1994 Registration of KS93WGRC28 powdery mildew resistant 6BS.6RL hard red winter wheat germplasm. *Crop Science* 35: 1237.
383. Friebe B, Hatchett JH, Sears RG & Gill BS 1990 Transfer of Hessian fly resistance from 'Chaupan' rye to hexaploid wheat via a 2BS-2RL wheat rye chromosome translocation. *Theoretical and Applied Genetics* 79: 385-389.
384. Friebe B, Hatchett JM, Gill BS, Mukai Y & Sebesta EE 1991 Transfer of Hessian fly resistance from rye to wheat via radiation-induced terminal and intercalary chromosomal translocations. *Theoretical and Applied Genetics* 83: 33-40.
385. Friebe B, Heun M & Bushuk W 1989 Cytological characterization, powdery mildew resistance and storage protein composition of tetraploid and hexaploid 1BL/1RS wheat-rye translocation lines. *Theoretical and Applied Genetics* 78: 425-432.
386. Friebe B, Heun M, Tuleen N, Zeller FJ & Gill BS 1994 Cytogenetically monitored transfer of powdery mildew resistance from rye into wheat. *Crop Science* 34: 621-625.
387. Friebe B, Jellen EN & Gill BS 1996 Verification of the identity of the Chinese Spring ditelosomic stocks Dt7DS and Dt7DL. *Wheat Information Service* 83: 31-32.
388. Friebe B, Jiang J, Knott DR & Gill BS 1994 Compensation indices of radiation-induced wheat-*Agropyron elongatum* translocations conferring resistance to leaf rust and stem rust. *Crop Science* 34: 400-404.
389. Friebe B, Jiang J, Raupp WJ, McIntosh RA & Gill BS 1996 Characterization of wheat-alien translocations conferring resistance to diseases and pests: current status. *Euphytica* 91: 59-87.
390. Friebe B, Jiang JM, Gill BS & Dyck PL 1993 Radiation-induced nonhomoeologous wheat-*Agropyron intermedium* chromosomal translocations conferring resistance to leaf rust. *Theoretical and Applied Genetics* 86: 141-149.
391. Friebe B, Mukai Y, Dhaliwal HS, Martin TJ & Gill BS 1991 Identification of alien chromatin specifying resistance to wheat streak mosaic and greenbug in wheat germplasm by C-banding and in situ hybridization. *Theoretical and Applied Genetics* 81: 381-389.
392. Friebe B, Zeller FJ, Mukai Y, Forster BP, Bartos P & McIntosh RA 1992 Characterization of wheat-*Agropyron intermedium* derivatives carrying resistance against leaf, stripe and stem

- rust by C-banding, in situ hybridization and isozyme analysis. *Theoretical and Applied Genetics* 83: 775-782.
393. Fu TK & Sears ER 1973 The relationships between chiasmata and crossing over in *Triticum aestivum*. *Genetics* 75: 231-246.
394. Fuentes-Davila G, Rajaram S & Singh G 1995 Inheritance of resistance to Karnal bunt (*Tilletia indica* Mitra) in bread wheat (*Triticum aestivum* L.). *Plant Breeding* 114: 250-252.
395. Futers TS, Vaughan TJ, Sharp PJ & Cuming AC 1990 Molecular cloning and chromosomal location of genes encoding the 'Early-methionine-labelled' (Em) polypeptide of *Triticum aestivum* L. var. Chinese Spring. *Theoretical and Applied Genetics* 80: 43-48.
396. Gaines EF & Carstens A 1926 The linkage of pubescent node and beard factors as evidenced by a cross between two varieties of wheat. *Journal of Agricultural Research* 33: 753-755.
397. Gaines EF & Smith WK 1933 Reaction of varieties and hybrids of wheat to physiologic forms of bunt. *Journal of the American Society of Agronomy* 25: 273-284.
398. Gale MD 1983 Alpha-amylase genes in wheat. *Proceedings of the Third International Symposium on Pre-harvest Sprouting in Cereals*. Westview Press, Boulder, USA (Kruger JE & LaBerge DE eds.) 273-284.
399. Gale MD 1993 Personal communication.
400. Gale MD Personal communication.
401. Gale MD & Flavell RB 1971 The genetic control of anthocyanin biosynthesis by homoeologous chromosomes in wheat. *Genetical Research, Cambridge* 18: 237-244.
402. Gale MD & King RW 1988 Semi-dwarf genes in Australian wheats. *Agricultural Science* 1: 18-20.
403. Gale MD & Law CN 1976 The identification and exploitation of Norin 10 semi-dwarfing genes. *Annual Report of the Plant Breeding Institute, Cambridge* 21-35.
404. Gale MD & Marshall GA 1973 Insensitivity to gibberellin in dwarf wheats. *Annals of Botany* 37: 729-735.
405. Gale MD & Marshall GA 1975 The nature and genetic control of gibberellin insensitivity in dwarf wheat grain. *Heredity* 35: 55-65.
406. Gale MD & Marshall GA 1976 The chromosomal location of *Gai1* and *Rht1*, genes for gibberellin insensitivity and semi-dwarfism, in a derivative of Norin 10 wheat. *Heredity* 37: 283-289.
407. Gale MD & Marshall GA 1978 A classification of the Norin 10 and Tom Thumb dwarfing genes in hexaploid bread wheat. *Proceedings of the 5th International Wheat Genetics Symposium New Delhi, India* (Ramanujam S ed.): 995-1001.
408. Gale MD & Youssifian S 1983 Pleiotropic effects of the Norin 10 dwarfing genes *Rht1* and *Rht2* and interactions in response to chlormequat. *Proceedings of the 6th International Wheat Genetics Symposium Kyoto, Japan* (Sakamoto S ed.): 271-277.
410. Gale MD, Atkinson MD, Chinoy CN, Harcourt RL, Jia J, Li QY & Devos KM 1995 Genetic maps of hexaploid wheat. *Proceedings 8th International Wheat Genetics Symposium* (Li ZS, Xin ZY eds.). China Agricultural Sciencetech Press, Beijing: 29-40.
411. Gale MD, Law CN & Worland AJ 1975 The chromosomal location of a major dwarfing gene from Norin 10 in new British semi-dwarf wheats. *Heredity* 35: 417-421.
412. Gale MD, Law CN, Chojecki AJ & Kempton RA 1983 Genetic control of alpha-amylase production in wheat. *Theoretical and Applied Genetics* 64: 309-316.
413. Gale MD, Law CN, Marshall GA & Worland AJ 1975 The genetic control of gibberellic

- acid insensitivity and coleoptile length in a 'dwarf' wheat. *Heredity* 34: 393-399.
414. Gale MD, Law CN, Marshall GA, Snape JW & Worland AJ 1982 The analysis and evaluation of semi-dwarfing genes in wheat, including a major height-reducing gene in the variety "Sava". IAEA Tecdoc: Semi-dwarf Cereal Mutants and Their Use in Cross Breeding 268: 7-23.
415. Gale MD, Marshall GA & Rao MV 1981 A classification of the Norin 10 and Tom Thumb dwarfing genes in British, Mexican, Indian and other hexaploid bread wheat varieties. *Euphytica* 30: 355-361.
416. Gale MD, Marshall GA, Gregory RS & Quick JS 1981 Norin 10 semi-dwarfism in tetraploid wheat and associated effects on yield. *Euphytica* 30: 347-354.
417. Gale MD, Scott PR, Law CN, Ainsworth CC, Hollins TW & Worland AJ 1984 An alpha-amylase gene from *Aegilops ventricosa* transferred to bread wheat together with a factor for eyespot resistance. *Heredity* 52: 431-435.
418. Galiba G, Quarrie SA, Sutka J, Morgounov A & Snape JW 1995 RFLP mapping of the vernalization (*Vrn1*) and frost resistance (*Fr1*) genes on chromosome 5A of wheat. *Theoretical Applied Genetics* 90: 1174-1179.
419. Galiba G, Quarrie SA, Sutka J, Morgunov A & Snape JW 1995 RFLP mapping of the vernalisation (*Vrn1*) and frost resistance (*Fr1*) genes on chromosome 5A of wheat. *Theoretical and Applied Genetics* 90: 1174-1179.
420. Galili G & Feldman M 1983 Genetic control of endosperm proteins in wheat 2. Variation in high-molecular-weight glutenin and gliadin subunits of *Triticum aestivum*. *Theoretical and Applied Genetics* 66: 77-86.
421. Galili G & Feldman M 1984 A deficiency of the rapidly migrating high molecular weight glutenin subunit D5 in common wheat. *Cereal Research Communications* 12: 259-261.
422. Galili G & Feldman M 1984 Mapping of glutenin and gliadin genes located on chromosome 1B of common wheat. *Molecular and General Genetics* 193: 293-298.
423. Galili S, Galili G & Feldman M 1991 Chromosomal location of genes for Rubisco small subunit and Rubisco-binding protein in common wheat. *Theoretical and Applied Genetics* 81: 98-104.
424. Gallagher LW, Soliman KM, Qualset CO, Huffaker RC & Rains DW 1980 Major gene control of nitrate reductase activity in common wheat. *Crop Science* 20: 717-721.
425. Gallun RL & Patterson FL 1977 Monosomic analysis of wheat for resistance to Hessian fly. *Journal of Heredity* 68: 223-226.
426. Gallun RL & Reitz LP 1972 Wheat cultivars resistant to races of Hessian fly. United States Department of Agriculture, Agricultural Research Station., Production Research Report 134: 16pp.
427. Garcia-Maroto F, Marana C, Montana M, Garcia-Olmedo F & Carbonero P 1990 Cloning of cDNA and chromosomal location of genes encoding the three types of subunits of the wheat tetrameric inhibitor of insect  $\alpha$ -amylase. *Plant Molecular Biology* 14: 845-853.
428. Garcia-Olmedo F 1968 Genetics of synthesis of beta-sitosterol esters in wheat and related species. *Nature* 220: 1144-1145.
429. Gautier MF & Joudrier P 1998 Personal communication.
430. Gautier MF, Alary R & Joudrier P 1990 Cloning and characterisation of a cDNA encoding the wheat (*Triticum durum* Desf.) CM16 protein. *Plant Molecular Biology* 14: 313-322.
431. Gerechter-Amitai ZK & Grama A 1974 Inheritance of resistance to stripe rust (*Puccinia striiformis*) in crosses between wild emmer (*Triticum dicoccoides*) and cultivated tetraploid and hexaploid wheats, I. *Triticum durum*. *Euphytica* 23: 387-392.

432. Gerechter-Amitai ZK, van Silfhout CH, Grama A & Kleitman F 1989 *Yr15*-a new gene for resistance to *Puccinia striiformis* in *Triticum dicoccoides* sel. G-25. *Euphytica* 43: 187-190.
433. Gerlach WL & Bedbrook JR 1979 Cloning and characterisation of ribosomal RNA genes from wheat and barley. *Nucleic Acids Research* 7: 1869-1886.
434. German SE & Kolmer JA 1992 Effect of *Lr34* in the enhancement of resistance to leaf rust of wheat. *Theoretical and Applied Genetics* 84: 97-105.
435. Gfeller F & Svejda F 1960 Inheritance of post-harvest seed dormancy and kernel colour in spring wheat lines. *Canadian Journal of Plant Science* 40: 1-6.
436. Gfeller F & Whiteside AGO 1961 Inheritance of quality as related to agronomic characters in advanced lines of a spring wheat cross. *Canadian Journal of Plant Science* 41: 604-617.
437. Ghosh S, Sikka SM & Rao MV 1958 Inheritance studies in wheat IV. Inheritance of rust resistance and other characters. *Indian Journal of Genetics* 18: 142-162.
438. Gilchrist JA & Sorrells ME 1983 Inheritance of kernel colour in 'Charcoal' wheat. *Journal of Heredity* 73: 457-460.
439. Gill BS 1993 Molecular cytogenetic analysis in wheat. *Crop Science* 33: 902-908.
440. Gill BS, Friebe B, Wilson DL, Martin DJ & Cox TS 1995 Registration of KS93WRC27 wheat streak mosaic virus resistant T4DL.4Ai#2S wheat germplasm. *Crop Science* 35: 1236-1237.
441. Gill BS, Hatchett JH & Raupp WJ 1987 Chromosomal mapping of Hessian fly resistance gene *H13* in the D genome of wheat. *Journal of Heredity* 78: 97-100.
442. Gill BS, Wilson DL, Raupp JH, Cox TS, Amri A & Sears RG 1991 Registration of KS89WGRC3 and KS89WGRC6 Hessian fly-resistant hard red winter wheat germplasm. *Crop Science* 31: 245.
443. Gill KS & Gill BS 1996 A PCR-based screening assay of *Ph1*, the chromosome pairing regulator gene of wheat. *Crop Science* 36: 719-722.
444. Gill KS, Gill BS & Endo TR 1993 A chromosome region-specific mapping strategy reveals gene-rich telomeric ends in wheat. *Chromosoma* 102: 374-381.
445. Gill KS, Gill BS, Endo T & Taylor T 1996 Identification and high-density mapping of gene-rich regions in chromosome group 1 of wheat. *Genetics* 144: 1883-1891.
446. Gill KS, Gill BS, Endo TR & Boyko EV 1996 Identification and high-density mapping of gene-rich regions in chromosome group 5 of wheat. *Genetics* 143: 1001-1012.
447. Gill KS, Gill BS, Endo TR & Mukai Y 1993 Fine physical mapping of *Ph1*, a chromosome pairing regulator gene in polyploid wheat. *Genetics* 134: 1231-1236.
448. Gill KS, Lubbers EL, Gill BS, Raupp WJ & Cox TS 1991 A genetic linkage map of *Triticum tauschii* (DD) and its relationship to the D genome of bread wheat (AABBDD). *Genome* 34: 362-374.
449. Giorgi B 1983 Origin, behaviour and utilization of a *Ph1* mutant of durum wheat, *Triticum turgidum* (L.) var. durum. *Proceedings of the 6th International Wheat Genetics Symposium Kyoto, Japan* (Sakamoto S ed.): 1033-1040.
450. Giorgi B & Mosconi C 1982 Short-straw mutants and other dwarfing gene sources used for the improvement of wheats and barley in Italy. *IAEA Tecdoc: Semi-dwarf Cereal Mutants and Their Use in Cross-breeding* 268: 53-64.
451. Giorgi B, Barbera F, Bitti O & Cavicchioni G 1984 Field performance of F3 progenies from a durum wheat involving two different semidwarfing genes: *Rht1* and *Sd* mutation. *IAEA Tecdoc: Semi-dwarf Cereal Mutants and Their Use in Cross-breeding II* 307: 91-95.
452. Giroux MJ & Morris CF 1997 A glycine to serine change in puroindoline b is associated

- with wheat grain hardness and low levels of starch-surface friabilin. *Theoretical and Applied Genetics* 95: 857-864.
453. Goldmark P, Curry J, Morris CG & Walker-Simmons MK 1992 Cloning and expression of an embryo-specific mRNA up-regulated in hydrated dormant seeds. *Plant Molecular Biology* 19: 433-441.
454. Golenberg EM 1986 Chromosomal location of peptidase, PEPT-1, genes in *Triticum aestivum* var. Chinese Spring. *Genetical Research, Cambridge* 48: 19-20.
455. Gomez L, Sanchez-Monge R & Salcedo G 1988 A family of endosperm globulins encoded by genes located in group 1 chromosomes of wheat and related species. *Molecular and General Genetics* 214: 541-546.
456. Goncharov NP & Konovalov AA 1996 Inheritance of glucose phosphate isomerase, awnedness, hairy glume, and growth habit in *Aegilops speltoides* and *Aegilops aucheri*. *Russian Journal of Genetics (Eng vers)* 32(5): 571-576.
457. Goncharov NP, Konovalov AA & Chikida NN 1997 Genetic variation at the *GPI-1* loci among *Aegilops* and *Triticum* genera and phylogeny of polyploid wheat. *Zhurnal Obshchei Biologii* 58(2): 75-79.
458. Goncharov NP, Konovalov AA, Gaidalenok RF, Goryachkovskaya TN, Tseveleva ON, Pel'tek SE, Litkovskaya NP & Khristov YA 1997 Genetic mapping of the short arm of chromosome 1B in common wheat cultivar Salmon. *Russian Journal of Genetics (Eng vers)* 33(4): 387-392.
459. Gornicki P, Faris J, King I, Podkowinski J, Gill B & Haselkorn R 1998 Plastid-localized acetyl-CoA carboxylase of bread wheat is encoded by a single gene on each of the three ancestral chromosome sets. *Proceedings of the National Academy of Sciences, USA* 94: 14179-14184.
460. Gotoh T 1979 Genetic studies on growth habit of some important spring wheat cultivars in Japan, with special reference to the identification of the spring genes involved. *Japanese Journal of Breeding* 29: 133-145.
461. Gotoh T 1980 Gene analysis of the degree of vernalisation requirement in winter wheat. *Japanese Journal of Breeding* 30: 1-10.
462. Graham RD 1978 Nutrient efficiency objectives in cereal breeding. *Plant Nutrition Proceedings of the 8th International Colloquium on Plant Analysis and Fertilizer Problems, Auckland, NZ* 165-170.
463. Graham RD 1984 Breeding for nutritional characteristics in cereals. *Advances in Plant Nutrition* 1: 57-102.
464. Graham RD, Asher JS, Ellis PAE & Shepherd KW 1987 Transfer to wheat of the copper efficiency factor carried on rye chromosome 5RL. *Plant and Soil* 99: 107-114.
465. Graham WD Jr., Gambrell RH & Myers CW 1996 Registration of Clemson 201 soft red winter wheat. *Crop Science* 36: 468.
466. Grama A & Gerechter-Amitai ZK 1974 Inheritance of resistance to stripe rust (*Puccinia striiformis*) in crosses between wild emmer (*Triticum dicoccoides*) and cultivated tetraploid and hexaploid wheats II. *Triticum aestivum*. *Euphytica* 23: 393-398.
467. Graner A, Jahoor A, Schondelmaier J, Siedler H, Pillen K, Fischbeck G, Wenzel G & Herrmann RG 1991 Construction of an RFLP map of barley. *Theoretical and Applied Genetics* 83: 250-256.
468. Green GJ, Knott DR, Watson IA & Pugsley AT 1960 Seedling reactions to stem rust of lines of Marquis wheat with substituted genes for rust resistance. *Canadian Journal of Plant Science* 40: 524-538.



469. Green R 1991 Isolation and characterisation of genes induced in barley during powdery mildew infection. PhD thesis, Cambridge University.
470. Greenwell P & Schofield JD 1989 The chemical basis of grain hardness and softness. Proceedings of International Cereal Chemistry Conference, University of Helsinki, Finland: 59-72.
471. Guiltan MJ, Marcotte WRJ & Quatrano RS 1990 A plant leucine zipper protein that recognizes an abscisic acid response element. *Science* 250: 267-271.
472. Gulick PJ & Dvorak J 1990 Selective enrichment of cDNAs from salt-stress-induced genes in the wheatgrass, *Lophopyrum elongatum*, by the formamide-phenol emulsion reassociation technique. *Gene* 95: 173-177.
473. Gulli M, Maestri E, Hartings H, Raho G, Perrotta C, Devos KM & Marmioli N 1995 Isolation and characterization of abscisic acid inducible genes in barley seedlings and their responsiveness to environmental stress. *Plant Physiology (Life Science Advances)* 14: 89-96.
474. Gulyaeva JB 1984 Localization of the genes for pubescence of the glumes and coloration of the auricles in the leaf sheath in winter wheat variety Ulyanovka. *Trudy po Prikladnoi Botanike, Genetikei Seleksii* 85: 85-86.
475. Gupta N & Swaminathan MS 1967 An induced sphaerococcoid mutant in *Triticum dicoccum*. *Current Science* 36: 19.
476. Gupta RB 1989 Low-molecular-weight subunits of glutelin in wheat and related species: their characterization, genetics, and relation to bread-making quality. PhD Thesis, University of Adelaide, Australia
477. Gupta RB & Shepherd KW 1987 Interaction between genes controlling a new group of glutenin subunits in bread wheat. *Theoretical and Applied Genetics* 74: 459-465.
478. Gupta RB & Shepherd KW 1988 Inheritance of novel high-molecular-weight glutenin subunits in the Tunisian bread wheat BT-2288. *Genome* 30: 442-445.
479. Gupta RB & Shepherd KW 1988 Low-molecular weight glutenin subunits in wheat; their variation inheritance and association with bread-making quality. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 943-949.
480. Gupta RB & Shepherd KW 1990 Two-step one-dimensional SDS-PAGE analysis of LMW subunits of glutelin.2. Genetic control of the subunits in species related to wheat. *Theoretical and Applied Genetics* 80: 183-187.
481. Gupta RB & Shepherd KW 1990 Two-step one-dimensional SDS-PAGE analysis of LMW subunits of glutelin.1. Variation and genetic control of the subunits in hexaploid wheats. *Theoretical and Applied Genetics* 80: 65-74.
482. Gupta RB & Shepherd KW 1993 Production of multiple wheat-rye 1RS translocation stocks and genetic analysis of LMW subunits of glutenin and gliadins in wheats using these stocks. *Theoretical and Applied Genetics* 85: 719-728.
483. Gupta RB, Singh NK & Shepherd KW 1988 The cumulative effect of allelic variation in LMW and HMW glutenin subunits on dough properties in the progeny of two bread wheats. *Theoretical and Applied Genetics* 77: 57-64.
484. Gyarfás J 1978 Transference of disease resistance from *Triticum timopheevii* to *Triticum aestivum*. MScAgr Thesis, University of Sydney, Australia.
485. Gyarfás J 1983 Suneca. *Journal of the Australian Institute of Agricultural Science* 49: 43-44.
486. Haggag MEA & Dyck PL 1973 The inheritance of leaf rust resistance in four common wheat varieties possessing genes at or near the *Lr3* locus. *Canadian Journal of Genetics and*

- Cytology 15: 127-134.
487. Halloran GM & Boydell CW 1967 Wheat chromosomes with genes for photoperiodic response. *Canadian Journal of Genetics and Cytology* 9: 394-398.
488. Hansen L 1987 Three cDNA clones for barley leaf acyl carrier proteins I and III. *Carlsberg Research Communications* 52: 381-392.
489. Hansen L & Kauppinen S 1991 Barley Acyl carrier II: Nucleotide sequence of cDNA clones and chromosomal location of *Acl2* gene. *Plant Physiology* 97: 472-474.
490. Hanson AD & Brown AHD 1984 Three alcohol dehydrogenase genes in wild and cultivated barley: Characterization of the products of variant alleles. *Biochemical Genetics* 22: 495-515.
491. Hanusova R, Bartos P & Zeller FJ 1997 Characterization of the suppressor gene of powdery mildew resistance gene *Pm8* in common wheat (*Triticum aestivum* L.) cv. Regina. *Journal of Applied Genetics* 38: 11-17.
492. Hanusova R, Hsam SLK, Bartos P & Zeller FJ 1996 Suppression of powdery mildew resistance gene *Pm8* in *Triticum aestivum* L.(common wheat) cultivars carrying wheat-rye translocation T 1BL.1RS. *Heredity* 77: 383-387.
493. Harberd NP & Edwards KJR 1983 Further studies on the alcohol dehydrogenases in barley: Evidence for a third alcohol dehydrogenase locus and data on the effect of an alcohol dehydrogenase-1 null mutation in homozygous and in heterozygous condition. *Genetical Research, Cambridge* 41: 109-116.
494. Harberd NP, Bartels D & Thompson RD 1985 Analysis of the gliadin multigene loci in bread wheat using nullisomic-tetrasomic lines. *Molecular and General Genetics* 198: 234-242.
495. Harberd NP, Bartels D & Thompson RD 1986 DNA restriction-fragment variation in the gene family encoding high-molecular-weight (HMW) glutenin subunits of wheat. *Biochemical Genetics* 24: 579-596.
496. Harcourt RL 1992 PhD Thesis, Cambridge University, UK.
497. Harcourt RL & Gale MD 1991 A chromosome-specific DNA sequence which reveals a high level of RFLP in wheat. *Theoretical and Applied Genetics* 81: 397-400.
498. Hare RA 1992 Anatomical location and inheritance of variegated red seed coat colour in hexaploid wheat. *Crop Science* 32: 115-117.
499. Hare RA & McIntosh RA 1979 Genetic and cytogenetic studies of durable adult-plant resistances in 'Hope' and related cultivars to wheat rusts. *Zeitschrift fur Pflanzenzuchtung* 83: 350-367.
500. Hare RA, Du Cros DL & Barnes WC 1986 Genetic linkage between glume colour and certain gliadin proteins in durum wheat. *Crop Science* 26: 831-833.
501. Hart GE 1969 Genetic control of alcohol dehydrogenase isozymes in *Triticum dicoccum*. *Biochemical Genetics* 3: 617-625.
502. Hart GE 1970 Evidence for triplicate genes for alcohol dehydrogenase in hexaploid wheat. *Proceedings of the National Academy of Sciences, USA* 66: 1136-1141.
503. Hart GE 1971 Evolution of alcohol dehydrogenase isozymes in *Triticum*. *Isozyme Bulletin* 4: 15.
504. Hart GE 1973 Homoeologous gene evolution in hexaploid wheat. *Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri (Sears ER & Sears LMS eds.):* 805-810.
505. Hart GE 1975 Glutamate oxaloacetate transaminase isozymes of *Triticum*: evidence for multiple systems of triplicate structural genes in hexaploid wheat. *Isozymes: III*.

- Developmental Biology, Academic Press, New York (Markert C ed.): 637-657.
506. Hart GE 1978 Chromosomal arm locations of *Adh-R1* and an acid phosphatase structural gene in Imperial rye. *Cereal Research Communications* 6: 123-133.
507. Hart GE 1979 Evidence for a triplicate set of glucosephosphate isomerase structural genes in hexaploid wheat. *Biochemical Genetics* 17: 585-598.
508. Hart GE 1983 Discovery and genetic control of hexaploid wheat NAD-dependent alcohol dehydrogenase which acts in aromatic alcohols. *American Journal of Botany* 70: 63.
509. Hart GE 1983 Genetics and evolution of multilocus isozymes in hexaploid wheat. *In*, *Isozymes-Current Topics in Biological and Medical Research*. Alan, R. Liss, Inc., New York. (Rattazzi HC, Scandalios JG & Whitt GS eds.): 10: 365-380.
510. Hart GE 1983 Hexaploid wheat (*Triticum aestivum*, L. em Thell.). *In*, *Isozymes in Plant Genetics and Breeding*. Elsevier Science Publishers, B.V., Amsterdam. (Tanksley SD & Orton TJ eds.): Part B: 35-36.
511. Hart GE 1984 Biochemical loci of hexaploid wheat (*Triticum aestivum*, 2n =42, Genomes AABBDD). *In*, *Genetic Maps*. Cold Spring Harbor Laboratory, (O'Brien SJ ed.): 3: 485-490.
512. Hart GE 1987 Genetic and biochemical studies of enzymes. *In*, *Wheat and Wheat Improvement*. American Society of Agronomy, Madison. (Heyne EG ed.): 199-214.
513. Hart GE 1987 Genetic control of NADH dehydrogenase-1 and aromatic alcohol dehydrogenase-2 in hexaploid wheat. *Biochemical Genetics* 25: 837-846.
514. Hart GE 1996 Personal communication.
515. Hart GE & Gale MD 1988 Guidelines for nomenclature of biochemical/molecular loci in wheat and related species. *Proceedings of the 7th International Wheat Genetics Symposium IPSR*, Cambridge, UK (Miller TE & Koebner RMD eds.): 1215-1218.
516. Hart GE & Langston PJ 1977 Chromosome location and evolution of isozyme structural genes in hexaploid wheat. *Heredity* 39: 263-277.
517. Hart GE & Tuleen NA 1983 Characterizing and selecting alien genetic material in derivatives of wheat-alien species hybrids by analyses of isozyme variation. *Proceedings of the 6th International Wheat Genetics Symposium*, Kyoto, Japan (Sakamoto S ed.): 377-385.
518. Hart GE & Tuleen NA 1983 Chromosomal locations of eleven *Elytrigia elongata* (= *Agropyron elongatum*) isozyme structural genes. *Genetical Research*, Cambridge 41: 181-202.
519. Hart GE & Tuleen NA 1983 Introduction and characterization of alien genetic material. *In*, *Isozymes in Plant Genetics and Breeding*. Elsevier Science Publishers, B.V., Amsterdam, The Netherlands. (Tanksley SD & Orton TJ eds.): Part A: 339-362.
520. Hart GE, Islam AKMR & Shepherd KW 1980 Use of isozymes as chromosome markers in the isolation and characterization of wheat-barley chromosome addition lines. *Genetical Research*, Cambridge 36: 311-325.
521. Hart GE, McMillin DE & Sears ER 1976 Determination of the chromosomal location of a glutamate oxaloacetate transaminase structural gene using *Triticum-Agropyron* translocations. *Genetics* 83: 49-61.
522. Hartl L, Weiss H, Zeller FJ & Jahoor A 1993 Use of RFLP markers for the identification of alleles at the *Pm3* locus conferring powdery mildew resistance in wheat (*Triticum aestivum* L.). *Theoretical and Applied Genetics* 86: 959-963.
523. Harvey TL, Martin TJ & Livers RW 1980 Resistance to biotype C greenbug in synthetic hexaploid wheats derived from *Triticum tauschii*. *Journal of Economic Entomology* 73: 387-389.
524. Hasm SLK & Zeller FJ 1997 Evidence of allelism between genes *Pm8* and *Pm17* and

- chromosomal location of powdery mildew and leaf rust resistance genes in the common wheat cultivar 'Amigo'. *Plant Breeding* 116: 119-122.
525. Hatchett JH, Martin TJ & Livers RW 1981 Expression and inheritance of resistance to Hessian fly in hexaploid wheats derived from *Triticum tauschii* (Coss.) Schmal. *Crop Science* 21: 731-734.
526. Hatfield PM, Callis J & Vierstra RD 1990 Cloning of ubiquitin activating enzyme from wheat and expression of a functional protein in *Escherichia coli*. *Journal of Biological Chemistry* 265: 15813-15817.
527. Hayter AM & Riley R 1967 Duplicate genetic activities affecting meiotic chromosome pairing at low temperature in *Triticum*. *Nature* 216: 1028-1029.
528. Hejgaard J, Bjorn SE & Nielsen G 1984 Localisation to chromosomes of structural genes for the major protease inhibitors of barley grains. *Theoretical and Applied Genetics* 68: 127-130.
529. Hejgaard J, Bjorn SE & Nielsen G 1984 Rye chromosomes carrying structural genes for the major grain protease inhibitors. *Hereditas* 101: 257-259.
530. Hermsen JG Th 1961 The symbolization of complementary necrosis genes in wheat: a proposal. *Wheat Information Service* 12: 22-23.
531. Hermsen JG Th 1963 Hybrid necrosis as a problem for the wheat breeder. *Euphytica* 12: 1-16.
532. Hermsen JG Th 1963 Sources and distribution of the complementary genes for hybrid necrosis in wheat. *Euphytica* 12: 147-160.
533. Hermsen JG Th 1963 The genetic basis of hybrid necrosis in wheat. *Genetica* 33: 445-487.
534. Hermsen JG Th 1963 The localization of two genes for dwarfing in the variety Timstein by means of substitution lines. *Euphytica* 12: 126-129.
535. Hermsen JG Th 1966 Hybrid necrosis and red hybrid chlorosis. *Proceedings of the 2nd International Wheat Genetics Symposium Lund, Sweden 1963* (MacKey J ed.): *Hereditas Supplement*: 2: 439-452.
536. Hermsen JG Th 1967 Hybrid dwarfness in wheat. *Euphytica* 16: 134-162.
537. Hermsen JG Th Personal communication.
538. Hermsen JG Th & Waninge J 1972 Attempts to localize the gene *Ch1* for hybrid chlorosis in wheat. *Euphytica* 21: 204-208.
539. Heun M 1988 Mapping powdery mildew resistance genes in winter wheat lines CI 15886 and CI 15887. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK* (Miller TE & Koebner RMD eds.): 823-827.
540. Heun M & Fischbeck G 1987 Genes for powdery mildew resistance in cultivars of spring wheat. *Plant Breeding* 99: 282-288.
541. Heun M & Fischbeck G 1987 Identification of wheat powdery mildew resistance genes by analysing host-pathogen interactions. *Plant Breeding* 98: 124-129.
542. Heun M & Fischbeck G 1989 Inheritance of the powdery mildew resistance *Mlk* in wheat. *Plant Breeding* 103: 262-264.
543. Heun M & Friebe B 1989 Introgression of powdery mildew resistance from rye into wheat. *Phytopathology* 80: 242-245.
544. Heun M, Friebe B & Bushuk W 1990 Chromosomal location of the powdery mildew resistance gene of Amigo wheat. *Phytopathology* 80: 1129-1133.
545. Heun M, Kennedy AE, Anderson JA, Lapitan NLV, Sorrells ME & Tanksley SD 1991 Construction of a restriction fragment length polymorphism map for barley (*Hordeum*

- vulgare*). Genome 34: 437-447.
546. Heyne EG Personal communication.
547. Heyne EG & Finney KF 1968 Registration of Shawnee wheat. Crop Science 8: 512.
548. Heyne EG & Johnston CO 1954 Inheritance of leaf rust reaction and other characters in crosses among Timstein, Pawnee and Redchief wheats. Agronomy Journal 46: 81-85.
549. Heyne EG & Livers RW 1953 Monosomic analysis of leaf rust reaction, awnedness, winter injury and seed colour in Pawnee wheat. Agronomy Journal 45: 54-58.
550. Heyne EG, Wiebe GA & Painter RH 1943 Complementary genes in wheat. Journal of Heredity 34: 243-245.
551. Hoffmann JA & Metzger RJ 1976 Current status of virulence genes and pathogenic races of the wheat bunt fungi in the northwestern USA Phytopathology 66: 657-660.
552. Hohmann U, Badaeva K, Busch W, Friebe B & Gill BS 1996 Molecular cytogenetic analysis of *Agropyron* chromatin specifying resistance to barley yellow dwarf virus in wheat. Genome 39: 336-347.
553. Hohmann U, Endo TR, Gill KS & Gill BS 1994 Comparison of genetic and physical maps of group 7 chromosomes from *Triticum aestivum* L. Molecular and General Genetics 245: 644-653.
554. Hollenhorst MM & Joppa LR 1983 Chromosomal location of genes for resistance to greenbug in 'Largo' and 'Amigo' wheats. Crop Science 23: 91-93.
555. Holt LM, Austin RB & Payne PI 1981 Structural and genetic studies on the high-molecular weight subunits of wheat glutenin.2. Relative isoelectric points determined by two-dimensional fractionation in polyacrylamide gels. Theoretical and Applied Genetics 60: 237-243.
556. Holton CS 1959 Genetic controls of host-parasite interactions in smut diseases. In, Plant Pathology Problems and Progress 1908-58 University of Wisconsin Press, Madison, Wisconsin. 145-156.:
557. Hoogendoorn J 1985 A reciprocal F1 monosomic analysis of the genetic control of the time of ear emergence, number of leaves and number of spikelets in wheat (*Triticum aestivum* L.). Euphytica 34: 545-558.
558. Hovmoller MS 1989 Race specific powdery mildew resistance in 31 northwest European wheat cultivars. Plant Breeding 103: 228-234.
559. Howes NK 1986 Linkage between the *Lr10* gene conditioning resistance to leaf rust, two endosperm proteins and hairy glumes in hexaploid wheat. Canadian Journal of Genetics and Cytology 28: 595-600.
560. Hsam SLK & Zeller FJ 1982 Relationships of *Agropyron intermedium* chromosomes determined by chromosome pairing and alcohol dehydrogenase isozymes in common wheat background. Theoretical and Applied Genetics 63: 213-217.
561. Hsam SLK, Cermeno MC, Friebe B & Zeller FJ 1995 Transfer of Amigo wheat powdery mildew resistance gene *Pm17* from TIAL.IRS to the T1BL.IRS wheat-rye translocated chromosome. Heredity 74: 497-501.
562. Hsam SLK, Huang XQ, Earnst F, Hartl L & Zeller FJ 1998 Theoretical and Applied Genetics 96: 1129-1134.
563. Hu CC & Roelfs AP 1986 Postulation of genes for stem rust resistance in 13 Chinese wheat cultivars. Cereal Rusts Bulletin 14: 68-74.
564. Hu CC & Roelfs AP 1986 Postulation of genes for stem rust resistance in 24 Chinese wheat cultivars. Cereal Rusts Bulletin 14: 61-67.

565. Hu ML 1974 Genetic analyses of semidwarfing and insensitivity to gibberellin GA3 in hexaploid wheat (*Triticum aestivum*, L. em Thell.). PhD Thesis, Washington State University, USA.
566. Hu ML 1980 A study of the X-ray induced semidwarfing gene in wheat (*Triticum aestivum*, L. em Thell.). Journal of the Agricultural Association of China 109: 5-16. Cited Plant Breeding Abstracts 52: 3671, p. 332.
567. Hu ML & Konzak CF 1974 Genetic association of gibberellic acid insensitivity and semi-dwarfing in hexaploid wheat. Annual Wheat Newsletter 20: 184-185.
568. Hu ML, Favret G, Favret EA, Donaldson E & Allan RE 1972 Inheritance of insensitivity to gibberellic acid GA3 in derivatives of oriental semidwarf wheats (Abstr.). Agronomy Abstracts p. 25.
569. Hu ML, Konzak CF & Donaldson E Independent recessive inheritance of two new mutagen-induced plant height reducing factors in wheat (*Triticum aestivum*, L. em Thell.). (In preparation).
570. Hu XY, Ohm HW & Dweikat I 1997 Identification of RAPD markers linked to the gene *Pm1* for resistance to powdery mildew in wheat. Theoretical and Applied Genetics 94: 832-840.
571. Huang XQ, Hsam SLK & Zeller FJ 1997 Chromosomal location of genes for resistance to powdery mildew in common wheat (*Triticum aestivum* L. em Thell.) 4. Gene *Pm24* in Chinese landrace Chiyacao. Theoretical and Applied Genetics 95: 950-953.
572. Huang XQ, Hsam SLK & Zeller FJ 1997 Identification of powdery mildew resistance genes in common wheat (*Triticum aestivum* L. em Thell.). IX. Cultivars, landraces and breeding lines grown in China. Plant Breeding 116: 233-238.
573. Hueros G, Gonzalez JM, Sanz JC & Ferrer E 1991 Gliadin gene location and C-banding identification of *Aegilops longissima* chromosomes added to wheat. Genome 34: 236-240.
574. Hurd EA & McGinnis RC 1958 Notes on the location of genes for dwarfing in Redman wheat. Canadian Journal of Plant Science 38: 506.
575. Hurkman WJ, Lane BG & Tanaka CK 1994 Nucleotide sequence of a transcript encoding a Germin-like protein that is present in salt-stressed barley roots. Plant Physiology 104: 803-904.
576. Hussain T, Bowden RL, Gill BS & Cox TS 1994 Chromosomal location of wheat leaf rust resistance gene *Lr43* derived from *Triticum tauschii*. Phytopathology 84: 1116.
577. Hussein T, Bowden RL, Gill BS & Cox TS 1998 Chromosome location of leaf rust resistance gene *Lr43* from *Aegilops tauschii* in common wheat. Crop Science 37: 1764-1766.
578. Hutchinson J, Miller TE, Jahier J & Shepherd KW 1982 Comparison of the chromosomes of *Triticum timopheevi* with related wheats using the techniques of C-banding and *in situ* hybridisation. Theoretical and Applied Genetics 64: 31-40.
579. Huttly AK, Martienssen RA & Baulcombe DC 1988 Sequence heterogeneity and differential expression of the *a-Amy2* gene family in wheat. Molecular and General Genetics 214: 232-240.
580. Hvid D & Nielsen G 1977 Esterase isoenzyme variants in barley. Hereditas 87: 155-162.
581. Inbal E 1982 Morphogenetic, genetic and physiologic aspects of stunting expression in wheat (*Triticum aestivum* L.). PhD Thesis, Weizmann Institute, 122 pp.
582. Irani BN & Bhatia CR 1972 Chromosomal location of alcohol dehydrogenase gene(s) in rye, using wheat-rye addition lines. Genetica 43: 195-200.
583. Izumi N, Sawada S & Sasakuma T 1981 A dominant gene of dwarfism located on chromosome 4D in *Triticum aestivum*, cv. "Ai-bian 1". Wheat Information Service 53: 21-

- 24.
584. Jaaska V 1978 NADP-dependent aromatic alcohol dehydrogenase in polyploid wheats and their relatives. On the origin and phylogeny of polyploid wheats. *Theoretical and Applied Genetics* 53: 209-217.
585. Jaaska V 1980 Electrophoretic survey of seedling esterases in wheats in relation to their phylogeny. *Theoretical and Applied Genetics* 56: 273-284.
586. Jaaska V 1982 Isoenzymes of superoxide dismutase in wheats and their relatives: Alloenzyme variation. *Biochemical Physiological Pflanzen* 177: 747-755.
587. Jaaska V 1984 NAD-dependent aromatic alcohol dehydrogenase in wheats (*Triticum* L.) and goatgrasses (*Aegilops* L.): evolutionary genetics. *Theoretical and Applied Genetics* 67: 535-540.
588. Jackson EA, Holt LM & Payne PI 1983 Characterisation of high-molecular-weight gliadin and low-molecular-weight glutenin subunits of wheat endosperm by two dimensional electrophoresis and the chromosomal localisation of their controlling genes. *Theoretical and Applied Genetics* 66: 29-37.
589. Jackson EA, Holt LM & Payne PI 1986 *Glu-B2*, a storage protein locus controlling the D group of LMW glutenin subunits in bread wheat (*Triticum aestivum*). *Genetical Research, Cambridge* 46: 11-17.
590. Jahier J 1992 Personal communication.
591. Jahier J, Doussinault G, Dosba F & Bourgeois E 1979 Monosomic analysis of resistance to eyespot in the variety "Roazon". *Proceedings of the 5th International Wheat Genetics Symposium New Delhi, India* (S. Ramanujam ed.): 437-440.
592. Jahier J, Tanguy AM & Doussinault G 1989 Analysis of the level of eyespot resistance due to genes transferred to wheat from *Aegilops ventricosa*. *Euphytica* 44: 55-59.
593. Jampates R & Dvorak J 1986 Location of the *Ph1* locus in the metaphase chromosome map and the linkage map of the 5Bq arm of wheat. *Canadian Journal of Genetics and Cytology* 28: 511-519.
594. Jan CC, Dvorak J, Qualset CO & Soliman KM 1981 Selection and identification of a spontaneous alien chromosome translocation in wheat. *Genetics* 98: 389-398.
595. Jensen NF & Driscoll CJ 1962 Inheritance of the waxless character in wheat. *Crop Science* 2: 504-505.
596. Jha KK 1964 The association of a gene for purple coleoptile with chromosome 7D of common wheat. *Canadian Journal of Genetics and Cytology* 6: 370-372.
597. Ji FG & Deng JY 1985 Further study on the inheritance of the genic male sterile wheat of Taigu and the production of the dominant male-sterile octaploid triticale. *Scientia Sinica (Series B)* 28: 609-617.
598. Jia J, Devos KM, Chao S, Miller TE, Reader SM & Gale MD 1996 RFLP-based maps of homoeologous group-6 chromosomes of wheat and their application in the tagging of *Pm12*, a powdery mildew resistance gene transferred from *Aegilops speltoides* to wheat. *Theoretical and Applied Genetics* 92: 559-565.
599. Jia JZ 1993 Personal communication.
600. Jiang J, Friebe B & Gill BS 1994 Chromosome painting of Amigo wheat. *Theoretical and Applied Genetics* 89: 811-813.
601. Jiang JM & Gill BS 1994 New 18S-26S ribosomal RNA gene loci. Chromosomal landmarks for the evolution of polyploid wheats. *Chromosoma* 103: 179-185.
602. Johansson E, Henriksson P, Svensson G & Heneen WK 1993 Detection, chromosomal location and evaluation of the functional value of a novel high Mr glutenin subunit found in

- Swedish wheats. *Journal of Cereal Science* 17: 237-245.
603. Johnson DA, Richards RA & Turner NC 1983 Yield, water relations, gas exchange and surface reflectances of near-isogenic wheat lines differing in glaucousness. *Crop Science* 23: 318-325.
604. Johnson R Personal communication.
605. Johnson R & Dyck PL 1984 Resistance to yellow rust in *Triticum spelta* var. *album* and bread wheat cultivars Thatcher and Lee. Proceedings of the 6th European and Mediterranean Cereal Rusts Conference, Grignon: . 71-74
606. Johnson R & Taylor AJ 1972 Isolates of *Puccinia striiformis* collected in England from wheat varieties 'Maris Beacon' and 'Joss Cambier'. *Nature* 238: 105-106.
607. Johnson R & Taylor AJ 1976 Annual Report of the Plant Breeding Institute, Cambridge, 1975: 126-128.
608. Johnson R, Smith GMB & Taylor AJ 1984 Brown rust of wheat. 1983 Annual Report of the Plant Breeding Institute, Cambridge 84-85.
609. Johnson R, Taylor AJ & Smith GMB 1984 1983 Annual Report of the Plant Breeding Institute, Cambridge 82-85.
610. Johnson R, Taylor AJ & Smith GMB 1986 Personal communication.
611. Johnson R, Taylor AJ & Smith GMB 1986 Resistance to British races of *Puccinia striiformis* in the differential wheat cultivars Heines Kolben and Heines Peko. *Cereal Rusts Bulletin* 14: 20-23.
612. Johnson R, Wolfe MS & Scott PR 1969 1968 Annual Report of the Plant Breeding Institute, Cambridge: 113-123.
613. Johnston CO & Heyne EG 1964 Wichita wheat backcross lines for differential hosts in identifying physiologic races of *Puccinia recondita*. *Phytopathology* 54: 385-388.
614. Jolly CJ, Glenn GM & Rahman S 1996 GSP-1 genes are linked to the grain hardness locus (*Ha*) on wheat chromosome 5D. Proceedings of the National Academy of Sciences, USA 93: 2408-2413.
615. Jones ERL & Clifford BC 1996 Annual Report-U.K. Cereal Pathogen Virulence Survey.
616. Jones SS 1995 Personal communication.
617. Yildirim A, Jones SS, Murray TD & Line RF 2000 Evaluation of *Daspyrum villosum* populations for resistance to cereal eyespot and stripe rust pathogens. *Plant Disease* 84: 40-44.
618. Yildirim A, Jones SS & Murray 1998 Mapping a gene conferring resistance to *Pseudocercospora herpotrichoides* on chromosome 4V of *Daspyrum villosum* in a wheat background. *Genome* 41: 1-6.
619. McIntosh RA & Lagudah ES 2000 Cytogenetical studies in wheat XVIII. Gene *Yr24* for resistance to stripe rust. *Plant Breeding* 119: 81-83.
620. Jones SS, Dvorak J, Knott DR & Qualset CO 1991 Use of double-ditelosomic and normal chromosome 1D recombinant substitution lines to map *Sr33* on chromosome arm 1DS in wheat. *Genome* 34: 505-508.
621. Joppa LR Personal communication.
622. Joppa LR & Williams ND 1982 Registration of Largo, a greenbug resistant hexaploid wheat. *Crop Science* 22: 901-902.
623. Joppa LR, Du C, Hart GE & Hareland GA 1997 Mapping gene(s) for grain protein in tetraploid wheat (*Triticum turgidum* L.) using a population of recombinant inbred chromosome lines. *Crop Science* 37: 1586-1589.



624. Joppa LR, Timian RG & Williams ND 1980 Inheritance of resistance to greenbug toxicity in an amphiploid of *Triticum turgidum*/*T. tauschii*. *Crop Science* 20: 343-344.
625. Joppa LR, Williams ND & Maan SS 1987 The chromosomal location of a gene (*msg*) affecting megasporogenesis in durum wheat. *Genome* 29: 578-591.
626. Jorgensen JH & Jensen CJ 1972 Genes for resistance to wheat powdery mildew in derivatives of *Triticum timopheevi* and *T. carthicum*. *Euphytica* 21: 121-128.
627. Jorgensen JH & Jensen CJ 1973 Gene *Pm6* for resistance to powdery mildew in wheat. *Euphytica* 22: 423.
628. Joudrier P & Cauderon Y 1976 Localisation chromosomique de genes controlant la synthese de certains constituants beta-amylasique du grain de Ble tendre. *Comptes Rendus Ac. Sc. Paris, D.* 282: 115-118.
629. Jouve N & Diaz F 1990 Genetic control of esterase-6 isozymes in hexaploid wheat and related species. *Euphytica* 46: 165-169.
630. Jung C & Lelley T 1985 Hybrid necrosis in triticale caused by gene-interaction between its wheat and rye genomes. *Zeitschrift fur Pflanzenzuchtung* 94: 344-347.
631. Kadarn BS 1936 Genetics of the Bansi wheat of the Bombay-Deccan and a synthetic Khapli. Part I. *Proceedings of the Indian Academy of Science* 4: 357-369.
632. Kaloshian I, Roberts PA, Waines JG & Thomason IJ 1990 Inheritance of resistance to root-knot nematodes in *Aegilops squarrosa* L. *Journal of Heredity* 81: 170-172.
633. Kam-Morgan LNW, Gill BS & Muthukrishnan S 1989 DNA restriction fragment length polymorphisms: a strategy for genetic mapping of D genome of wheat. *Genome* 32: 724-732.
634. Kasarda DD, Bernardin JE & Qualset CO 1976 Relationship of gliadin protein components to chromosomes in hexaploid wheats (*Triticum aestivum*). *Proceedings of the National Academy of Sciences, USA* 73: 3646-3650.
635. Kato K, Nakagawa K & Kuno H 1993 Chromosomal location of the genes for vernalization response, *Vrn2* and *Vrn4*, in common wheat, *Triticum aestivum* L. *Wheat Information Service* 76: 53.
636. Kaveh H, Williams ND & Gough FJ 1968 Allelic and linkage relations among genes for reaction to wheat stem rust. *Agronomy Abstracts* p. 12.
637. Kawahara T 1991 Further analysis of *Cs* chlorosis observed in hybrids between emmer and the *timopheevi* group of tetraploid wheats. *Wheat Information Service* 72: 83.
638. Keim DL, Welsh JR & McConnell RL 1973 Inheritance of photoperiodic heading response in winter and spring cultivars of bread wheat. *Canadian Journal of Plant Science* 53: 247-250.
639. Keller B, Schachermayr G & Feuillet C 1996 Molecular cloning of a new receptor-like kinase gene encoded at the *Lr10*, disease resistance locus of wheat. *Proceedings of the 9th European and Mediterranean Cereal Rusts and Powdery Mildews Conference, Lunteren, The Netherlands* (Kema GHJ, Niks RE & Daamen, eds.) pp.34-36.
640. Kema GHJ 1992 Resistance in spelt wheat to yellow rust I. Formal analysis and variation for gliadin patterns. *Euphytica* 63: 207-217.
641. Kema GHJ & Lange W 1992 Resistance in spelt wheat to yellow rust II. Monosomic analysis of the Iranian accession 415. *Euphytica* 63: 219-224.
642. Kenaschuk EO, Anderson RG & Knott DR 1959 The inheritance of rust resistance, V. The inheritance of resistance to race 15B of stem rust in ten varieties of durum wheat. *Canadian Journal of Plant Science* 39: 316-328.
643. Keppenne VD & Baenziger S 1990 Inheritance of the blue aleurone trait in diverse wheat crosses. *Genome* 33: 525-529.

644. Kerber ER 1987 Resistance to leaf rust in wheat: *Lr32*, a third gene derived from *Triticum tauschii*. *Crop Science* 27: 204-206.
645. Kerber ER 1988 Telocentric mapping in wheat of the gene *Lr32* for resistance to leaf rust. *Crop Science* 28: 178-179.
646. Kerber ER 1991 Personal communication.
647. Kerber ER Personal communication.
648. Kerber ER & Dyck PL 1969 Inheritance in hexaploid wheat of leaf rust resistance and other characters derived from *Aegilops squarrosa*. *Canadian Journal of Genetics and Cytology* 11: 639-647.
649. Kerber ER & Dyck PL 1973 Inheritance of stem rust resistance transferred from diploid wheat (*Triticum monococcum*) to tetraploid and hexaploid wheat and chromosome location of the gene involved. *Canadian Journal of Genetics and Cytology* 15: 397-409.
650. Kerber ER & Dyck PL 1979 Resistance to stem rust and leaf rust of wheat in *Aegilops squarrosa* and transfer of a gene for stem rust resistance to hexaploid wheat. *Proceedings of the 5th International Wheat Genetics Symposium New Delhi, India (Ramanujam S ed.): 358-364.*
651. Kerber ER & Dyck PL 1990 Transfer to hexaploid wheat of linked genes for adult-plant leaf rust and seedling stem rust resistance from an amphiploid of *Aegilops speltoides* x *Triticum monococcum*. *Genome* 33: 530-537.
652. Kerber ER & Rowland GG 1974 Origin of the free threshing character in hexaploid wheat. *Canadian Journal of Genetics and Cytology* 16: 145-154.
653. Kibirige-Sebunya I & Knott DR 1983 Transfer of stem rust resistance to wheat from an *Agropyron* chromosome having a gametocidal effect. *Canadian Journal of Genetics and Cytology* 25: 215-221.
654. Kilduff T 1933 Inheritance of bunt and loose smut reaction and of certain other characters in Kota x Red Bobs and Garnet crosses. *Canadian Journal of Research* 8: 147-172.
655. Kilian A, Kleinhofs A & Warner RL 1992 Localization of NAD(P)H-bispecific nitrate reductase genes to chromosomes of barley, rye, wheat and *Aegilops umbellulata*. *Theoretical and Applied Genetics* 85: 274-275.
656. Kilian A, Kleinhofs A, Villand P, Thorbjornsen T, Olsen O-A & Kleczkowski L 1994 Mapping of the ADP-glucose phosphorylase genes in barley. *Theoretical and Applied Genetics* 87: 869-871.
657. Kim N-S, Armstrong K & Knott DR 1993 Molecular detection of *Lophopyrum* chromatin in wheat-*Lophopyrum* recombinants and their use in the physical mapping of chromosome 7D. *Theoretical and Applied Genetics* 85: 561-567.
658. Kim N-S, Kuspira J, Armstrong K & Bhambhani R 1993 Genetic and cytogenetic analyses of the A genome of *Triticum monococcum*. VII Localization of rDNAs and characterization of 5S rRNA genes. *Genome* 36: 77-86.
659. Kimber G 1971 The inheritance of red grain colour in wheat. *Zeitschrift fur Pflanzenzuchtung* 66: 151-157.
660. King IP 1989 Cytogenetic studies on a preferentially transmitted chromosome from *Aegilops sharonensis*. PhD Thesis, Council for National Academic Awards.
661. King IP, Purdie KA, Rezanoor HN, Koebner RMD, Miller TE, Reader SM & Nicholson P 1993 Characterization of *Thinopyrum bessarabicum* chromosome segments in wheat using random amplified polymorphic DNAs (RAPDs) and genomic *in situ* hybridization. *Theoretical and Applied Genetics* 86: 895-900.
662. King SW, Joshi CP & Nguyen HT 1992 DNA sequence of an ABA-responsive gene (*rab*

- 15) from water-stressed wheat roots. *Plant Molecular Biology* 18: 119-121.
663. Kleinhofs A, Chao S & Sharp PJ 1988 Mapping of nitrate reductase genes in barley and wheat. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK* (Miller TE & Koebner RMD eds.) 541-546.
664. Kleinhofs A, Kilian A, Saghai MA, Biyashev RM, Hayes P, Chen FQ, Lapitan N, Fenwick A, Blake TK, Kanazin V, Ananiev E, Dahleen L, Kudrna D, Bollinger J, Knapp SJ, Liu B, Sorrells M, Heun M, Franckowiak JD, Hoffman D, Skadsen R & Steffenson BJ 1993 A molecular, isozyme and morphological map of the barley (*Hordeum vulgare*) genome. *Theoretical and Applied Genetics* 86: 705-712.
665. Klindworth DL, Klindworth MM & Williams ND 1997 Telocentric mapping of four genetic markers of durum wheat. *Journal of Heredity* 88: 229-232.
666. Klindworth DL, Williams ND & Duysen ME 1995 Genetics analysis of *chlorina* mutants of durum wheat. *Crop Science* 35: 431-436.
667. Kloppfers FJ & Pretorius ZA 1994 Expression and inheritance of leaf rust resistance gene *Lr37* in wheat seedlings. *Cereal Research Communications* 22: 91-97.
668. Knackstedt MA 1995 Personal communication.
669. Knott DR 1957 The inheritance of rust resistance II. The inheritance of stem rust resistance in six additional varieties of common wheat. *Canadian Journal of Plant Science* 37: 177-192.
670. Knott DR 1957 The inheritance of rust resistance III. The inheritance of stem rust resistance in nine Kenya varieties of common wheat. *Canadian Journal of Plant Science* 37: 366-384.
671. Knott DR 1959 The inheritance of rust resistance IV. Monosomic analysis of rust resistance and some other characters in six varieties of wheat including Gabo and Kenya Farmer. *Canadian Journal of Plant Science* 39: 215-228.
672. Knott DR 1961 The inheritance of rust resistance VI. The transfer of stem rust resistance from *Agropyron elongatum* to common wheat. *Canadian Journal of Plant Science* 41: 109-123.
673. Knott DR 1962 Inheritance of rust resistance VIII. Additional studies on Kenya varieties of wheat. *Crop Science* 2: 130-132.
674. Knott DR 1962 The inheritance of rust resistance IX. The inheritance of resistance to races 15B and 56 of stem rust in the wheat variety Khapstein. *Canadian Journal of Plant Science* 42: 415-419.
675. Knott DR 1965 A comparison of the reaction to stem rust of wheat lines backcrossed five and nine times to Marquis that carry the same resistance genes. *Canadian Journal of Plant Science* 45: 106-107.
676. Knott DR 1966 The inheritance of stem rust resistance in wheat. *Proceedings of the 2nd International Wheat Genetics Symposium Lund, Sweden 1963* (MacKey J ed.): *Hereditas Supplement* 2: 156-166.
677. Knott DR 1968 The inheritance of resistance to stem rust races 56 and 15B-1L (Can.) in the wheat varieties Hope and H-44. *Canadian Journal of Genetics and Cytology* 10: 311-320.
678. Knott DR 1971 Genes for stem rust resistance in wheat varieties Hope and H-44. *Canadian Journal of Genetics and Cytology* 13: 186-188.
679. Knott DR 1972 Using race-specific resistance to manage the evolution of plant pathogens. *Journal of Environmental Quality* 1: 227-231.
680. Knott DR 1983 The inheritance of resistance to stem rust races 15B-1 and 56 in "French Peace" wheat. *Canadian Journal of Genetics and Cytology* 25: 283-285.
681. Knott DR 1984 The genetic nature of mutations of a gene for yellow pigment linked to *Lr19* in 'Agatha' wheat. *Canadian Journal of Genetics and Cytology* 26: 392-393.

682. Knott DR 1984 The inheritance of resistance to race 56 of stem rust in 'Marquillo' wheat. *Canadian Journal of Genetics and Cytology* 26: 174-176.
683. Knott DR 1989 The mode of inheritance of a type of dwarfism in common wheat. *Genome* 32: 932-933.
684. Knott DR 1989 *The Wheat Rusts - Breeding For Resistance*. Springer-Verlag, Berlin.
685. Knott DR 1990 Near-isogenic lines of wheat carrying genes for stem rust resistance. *Crop Science* 30: 901-905.
686. Knott DR Personal communication.
687. Knott DR & Anderson RG 1956 The inheritance of rust resistance I. The inheritance of stem rust resistance in ten varieties of common wheat. *Canadian Journal of Agricultural Science* 36: 174-195.
688. Knott DR & McIntosh RA 1978 Inheritance of stem rust resistance in 'Webster' wheat. *Crop Science* 17: 365-369.
689. Knott DR & Shen I 1961 The inheritance of rust resistance VII. The inheritance of resistance to races 15B and 56 of stem rust in eleven common wheat varieties of diverse origin. *Canadian Journal of Plant Science* 41: 587-601.
690. Knowles PF & Harrington JB 1943 Breeding smooth-awned durum and vulgare wheats. *Scientific Agriculture* 23: 697-707.
691. Koba T & Shimada T 1993 Crossability of common wheat with *Aegilops squarrosa*. *Wheat Information Service* 77: 7-12.
692. Koba T & Tsunewaki K 1978 Mapping of the *s* and *Ch2* genes on chromosome 3D of common wheat. *Wheat Information Service* 45-46: 18-20.
693. Koba T, Takumi S & Shimada T 1997 Isolation, identification and characterization of disomic and translocated barley chromosome addition lines of common wheat. *Euphytica* 96: 289-296.
694. Kobrehel K 1978 Identification of chromosome segments controlling the synthesis of peroxidases in wheat seeds and in transfer lines with *Agropyron elongatum*. *Canadian Journal of Botany* 56: 1091-1094.
695. Kobrehel K & Fiellet P 1975 Identification of genomes and chromosomes involved in peroxidase synthesis of wheat seeds. *Canadian Journal of Botany* 53: 2336-2344.
696. Kochumadhavan M, Tomar SMS & Nambisan PNN 1980 Investigations on hybrid necrosis in wheat. *Indian Journal of Genetics and Plant Breeding* 40: 496-502. *Cited Plant Breeding Abstracts* 52: 2780, p.252.
697. Kochumadhavan M, Tomar SMS, Nambisan PNN & Ramanujam S 1984 Hybrid necrosis and hybrid chlorosis in Indian varieties of *Triticum dicoccum* Schubl. *Euphytica* 33: 853-858.
698. Kochumadhavan M, Tomar SMS, Nambisan PNN & Rao MV 1988 Hybrid necrosis and disease resistance in winter wheats. *Indian Journal of Genetics* 48: 85-90.
699. Koebner RMD 1987 Genetic control of a novel series of trypsin inhibitors in wheat and its relatives. *Biochemical Genetics* 25: 591-602.
700. Koebner RMD 1987 Genetic control of dipeptidase in the Triticeae. *Theoretical and Applied Genetics* 74: 387-390.
701. Koebner RMD 1990 Subtilisin inhibitor - a polymorphic protein produced by a gene on the short arms of wheat homoeologous group 1 chromosomes. *Journal of Genetics and Breeding* 44: 49-52.
702. Koebner RMD Personal communication.

703. Koebner RMD & Martin PK 1989 Chromosomal control of the aminopeptidases of wheat and its close relatives. *Theoretical and Applied Genetics* 78: 657-664.
704. Koebner RMD & Martin PK 1990 Association of eyespot resistance in wheat cv 'Cappelle-Desprez' with endopeptidase profile. *Plant Breeding* 104: 312-317.
705. Koebner RMD & Miller TE 1986 A note on the nomenclature for translocated chromosomes in the Triticeae. *Cereal Research Communications* 14: 315-316.
706. Koebner RMD & Shepherd KW 1983 Shikimate dehydrogenase - a biochemical marker for group 5 chromosomes in the Triticeae. *Genetical Research, Cambridge* 41: 209-213.
707. Koebner RMD & Shepherd KW 1986 Controlled introgression to wheat of genes from rye chromosome 1RS by induction of allosyndesis.1. Isolation of recombinants. *Theoretical and Applied Genetics* 73: 197-208.
708. Koebner RMD, Miller TE, Snape JW & Law CN 1988 Wheat endopeptidase: genetic control, polymorphism, intrachromosomal gene location and alien variation. *Genome* 30: 186-192.
709. Koebner RMD, Shepherd KW & Appels R 1986 Controlled introgression to wheat of genes from rye chromosome 1RS by induction of allosyndesis.2. Characterisation of recombinants. *Theoretical and Applied Genetics* 73: 209-217.
710. Kolchinsky A, Kanazin V, Yakovleva E, Gazumyan A, Cole C & Ananiev E 1990 5S-RNA genes of barley are located on the second chromosome. *Theoretical and Applied Genetics* 80: 333-336.
711. Kolmer JA 1992 Enhanced leaf rust resistance in wheat conditioned by resistance gene pairs with *Lr13*. *Euphytica* 61: 123-130.
712. Kolmer JA 1994 Genetics of leaf rust resistance in three western Canada spring wheats. *Plant Disease* 78: 600-602.
713. Kolmer JA 1997 Virulence in *Puccinia recondita* f. sp. *tritici* isolates from Canada to genes for adult plant resistance to wheat leaf rust. *Plant Disease* 81: 267-271.
714. Kolster P, Kretching CF & van Gelder WMJ 1988 Variation in high molecular weight glutenin subunits of *Triticum aestivum* and *T. turgidum* ssp. *dicoccoides*. *Euphytica* 37: 141-145.
715. Koluchii VT 1987 Association of gliadin allelic variance with elements of productivity of winter wheat in F<sub>2</sub> hybrids from crossing the varieties Pionerskaya and Mironovskaya 808. In: *Molecular Mechanisms of Genetic Processes, Abstracts of Reports of the Sixth All-Union Symposium (In Russian)*, Moscow: p. 121.
716. Konig S 1988 Nachweis von biochemischen markerfakorten fur chromosomen von *Hordeum vulgare* L. *Biochemical Physiological Pflanzen* 183: 345-349.
717. Konzak CF 1976 A review of semidwarfing gene sources and a description of some new mutants useful for breeding short-stature wheats. *Induced Mutations in Cross-breeding I.A.E.A., Vienna, Austria* 79-93.
718. Konzak CF 1987 Mutations and mutation breeding. In, *Wheat and Wheat Improvement*. 2nd Edition. American Society of Agronomy, Madison, Wisconsin (Heyne EG ed.): 428-443.
719. Konzak CF & Joppa LR 1988 The inheritance and chromosomal location of a gene for chocolate chaff in durum wheat. *Genome* 30: 229-233.
720. Konzak CF, Sadam M & Donaldson E 1973 Inheritance and linkage in durum wheats of semidwarfing genes with low response to gibberellin A3. *Proceedings of the Symposium of Genetics and Breeding of Durum Wheat, Bari, Italy* 29-40.
721. Konzak CF, Wilson MR & Franks PA 1984 Progress in the evaluation, use in breeding, and genetic analysis of semidwarf mutants in wheat. *IAEA Tecdoc: Semidwarf Mutants and*

- Their Use in Cross-breeding II 307: 39-50.
722. Koppinen E 1941 (Morphological characters of spring wheat). *Maataloust Aikakausk* 13: 145-164. *Cited Plant Breeding Abstracts* 19: 206, p.65.
723. Korzun V, Balzer H-J, Balzer A, Baumlein H & Borner A 1996 Chromosomal location of three wheat sequences with homology to pollen allergen encoding, DNA replication regulating, and DNA (cytosine-5)-methyltransferase genes in wheat and rye. *Genome* 39: 1213-1215.
724. Korzun V, Borner A, Worland AJ, Law CN & Roder MS 1997 Application of microsatellite markers to distinguish inter-varietal chromosome substitution lines of wheat (*Triticum aestivum* L.). *Euphytica* 95: 149-155.
725. Korzun V, Malyshev S, Voylovkov A & Borner A 1997 RFLP-based mapping of three mutant loci in rye (*Secale cereale* L.) and their relation to homoeologous loci within the Gramineae. *Theoretical and Applied Genetics* 95: 468-473.
726. Korzun V, Roder M, Worland AJ & Borner A 1997 Intrachromosomal mapping of genes for dwarfing (*Rht12*) and vernalization response (*Vrn1*) in wheat using RFLP and microsatellite markers. *Plant Breeding* 116: 227-232.
727. Korzun V, Roder MS, Ganal MW, Worland AJ & Law CN 1997 Genetic analysis of the dwarfing gene (*Rht8*) in wheat. Part I. Molecular mapping of *Rht8* on the short arm of chromosome 2D of bread wheat (*Triticum aestivum*). *Theoretical and Applied Genetics* 96: 1104-1109.
728. Kota RS, Gill KS, Gill BS & Endo TR 1993 A cytogenetically based physical map of chromosome 1B in common wheat. *Genome* 36: 548-554.
729. Koval SF 1994 Genetic analysis of isogenic lines of spring wheat variety Novosibirskaya 67: Location of the gene determining the brown colour of the glume in chromosome 1D. *Genetica* 30: 569-570 (English vers Russian Journal of Genetics 30: 508-509).
730. Koval SF, Metavosky EV & Sosinov AA 1988 A series of near- isogenic spring bread wheat lines on the basis of the variety Novosibirskaya 67. *Cereal Research Communications* 16: 183-187.
731. Kreis M, Williamson MS, Buxton B, Pyrell J, Hejgard J & Svendsen I 1987 Primary structure and differential expression of beta-amylase in normal and mutant barleys. *European Journal of Biochemistry* 169: 517-525.
732. Kreis M, Williamson MS, Shewry PR, Sharp P & Gale MD 1987 Identification of a second locus encoding beta-amylase on chromosome 2 of barley. *Genetical Research, Cambridge* 51: 13-16.
733. Kronstad WE, Foote WH, Kolding MF & Rohde CR 1972 Registration of Hyslop wheat. *Crop Science* 12: 398.
734. Kronstad WE, Rohde CR, Kolding MF & Metzger RJ 1976 Registration of McDermid wheat. *Crop Science* 16: 745.
735. Krugman T, Levy O, Snape JW, Rubin B, Korol A & Nevo E 1997 Comparative RFLP mapping of the chlortoluron resistance gene (*Su1*) in cultivated wheat (*Triticum aestivum*) and wild wheat (*Triticum dicoccoides*). *Theoretical and Applied Genetics* 94: 46-51.
736. Krugman T, Rubin B, Levy O, Snape JW & Nevo E 1995 RFLP mapping of chlortoluron resistance gene *Su1*, in bread wheat (*Triticum aestivum*) and wild wheat (*Triticum dicoccoides*). *Proceedings Herbicide Resistance Conference, Cordoba, Spain, 1994*.
737. Kudryakov NV 1987 Mapping of *EstA* and *EstB* genes controlling the synthesis of esterase isozyme in rye grains. *Soviet Genetics* 23: 1139-1145.
738. Kulkarni LG 1934 Correlated inheritance with special reference to disease resistance in

- spring wheat. *Journal of the American Society of Agronomy* 26: 885-893.
739. Kurata N, Moore G, Nagamura Y, Foote T, Yano M, Minobe Y & Gale MD 1994 Conservation of genome structure between rice and wheat. *Bio/Technology* 12: 276-278.
740. Kurata N, Nagamura Y, Yamamoto K, Harushima Y, Sue N, Wu J, Antonio BA, Shomura A, Shimizu T, Lin S-Y, Inoue T, Fukuda A, Shimano T, Kuboki Y, Toyama T, Miyamoto Y, Kirihaara T, Hayasaka K, Miyao A, Monna L, Zhong HS, Tamura Y, Wang Z-X, Momma T, Umehara Y 1994 A 300 kilobase interval genetic map of rice including 883 expressed sequences. *Nature Genetics* 8: 365-372.
741. Kuspira J & Unrau J 1957 Genetic analysis of certain characters in common wheat using whole chromosome substitution lines. *Canadian Journal of Plant Science* 37: 300-326.
742. Kuspira J & Unrau J 1958 Determination of the number and dominance relationships of genes on substituted chromosomes in common wheat *Triticum aestivum*, L. *Canadian Journal of Plant Science* 38: 199-205.
743. Kuspira J & Unrau J 1960 Determination of gene-chromosome associations and establishment of chromosome markers by aneuploid analysis in common wheat. I. F2 analysis of glume pubescence, spike density and culm colour. *Canadian Journal of Genetics and Cytology* 2: 301-310.
744. Kuspira J, Maclagan J, Bhambhani RN, Sadasivaich RS & Kim N-S 1989 Genetic and cytogenetic analyses of the A genome of *Triticum monococcum* L. V. Inheritance and linkage relationships of genes determining the expression of 12 qualitative characters. *Genome* 32: 869-881.
745. Kuspira J, Maclagan J, Kerby K & Bhambhani RN 1986 Genetic and cytogenetic analysis of the A genome of *Triticum monococcum* II. The mode of inheritance of spring versus winter growth habit. *Canadian Journal of Genetics and Cytology* 28: 88-95.
746. Labrum KE 1980 The location of *Yr2* and *Yr6* genes conferring resistance to yellow rust. *Proceedings of the 5th European and Mediterranean Cereal Rusts Conference Bari, Italy*: 41-45.
747. Lafever HN 1979 Registration of 'Titan' wheat. *Crop Science* 19: 749.
748. Lafever HN 1985 Registration of 'Adena' wheat. *Crop Science* 25: 1131.
749. Lafever HN 1988 Registration of 'Becker' wheat. *Crop Science* 28: 376.
750. Lafever HN 1988 Registration of 'Cardinal' wheat. *Crop Science* 28: 377.
751. Lafever HN 1988 Registration of 'GR855' wheat. *Crop Science* 28: 378-379.
752. Lafever HN & Berzovsky WA 1993 Registration of 'Excel' wheat. *Crop Science* 33: 648.
753. Lafever HN & Berzovsky WA 1993 Registration of 'GR876' wheat. *Crop Science* 33: 647-648.
754. Lagudah ES & Halloran GM 1988 Phylogenetic relationships of *Triticum tauschii*, the D genome donor to hexaploid wheat.2. Inheritance and chromosomal mapping of the HMW subunits of glutenin and gliadin gene loci of *T. tauschii*. *Theoretical and Applied Genetics* 75: 599-605.
755. Lagudah ES & Halloran GM 1988 Phylogenetic relationships of *Triticum taushii*, the D genome donor of hexaploid wheat 1. Variation in HMW subunits of glutenin and gliadins. *Theoretical and Applied Genetics* 75: 592-598.
756. Lagudah ES & Halloran GM 1989 Phylogenetic relationships of *Triticum tauschii*, the D genome donor to hexaploid wheat 3. Variation in, and the genetics of, seed esterases (*Est-5*). *Theoretical and Applied Genetics* 77: 851-856.
757. Lagudah ES, Appels R, Brown AHD & McNeil D 1991 The molecular genetic analysis of *Triticum tauschii*-the D genome donor to hexaploid wheat. *Genome* 34: 375-386.

758. Lagudah ES, Clarke BC & Appels R 1989 Phylogenetic relationships of *Triticum tauschii*, the D-genome donor to hexaploid wheat.4. Variation and chromosomal location of 5S DNA. *Genome* 32: 1017-1025.
759. Lagudah ES, Flood RG & Halloran GM 1987 Variation in high molecular weight glutenin subunits in landraces of hexaploid wheat from Afghanistan. *Euphytica* 36: 3-9.
760. Laikova LI, Maystrenko OI, Gaidalensk RF & Mischenko SV 1980 (Cytogenetic study of the series ditelosomic lines for spring common wheat cultivar Saratovskaya 29). [In Russian]. *Actual Questions of Plant Genetics and Breeding*, Novosibirsk: 171.:
761. Lange W & Jochemsen G 1987 Inheritance of hairy leaf sheath in *Triticum dicoccoides*. *Cereal Research Communications* 15: 139-142.
762. Lange W & Riley R 1973 The position on chromosome 5B of wheat of the locus determining crossability with rye. *Genetical Research*, Cambridge 22: 143-153.
763. Laroche A, Demeke T & Gaudet DA 1996 Identification of a DNA fragment linked to the bunt *Bt-10* resistance gene and its utilization for marker-assisted selection in hexaploid wheat. *Canadian Journal of Plant Pathology* 18: 491.
764. Larson RI & Atkinson TG 1981 Reaction of wheat to common root rot: Identification of a major gene, *Crr*, on chromosome 5B. *Canadian Journal of Genetics and Cytology* 23: 173-182.
765. Larson RI & Atkinson TG 1982 Reaction of wheat to common root rot: linkage of a major gene, *Crr*, with the centromere of chromosome 5B. *Canadian Journal of Genetics and Cytology* 24: 19-25.
766. Laurie DA, Pratchett N, Benzant JH & Snape JW 1994 Genetic analysis of a photoperiod response gene on the short arm of chromosome 2 (2H) of *Hordeum vulgare*. *Heredity* 72: 619-627.
767. Laurie DA, Pratchett N, Benzant JH & Snape JW 1995 RFLP mapping of five major genes and eight quantitative trait loci controlling flowering time in a winter x spring barley (*Hordeum vulgare* L.) cross. *Genome* 38: 575-585.
768. Law CN 1966 The location of genetic factors affecting a quantitative character in wheat. *Genetics* 53: 487-493.
769. Law CN Personal communication.
770. Law CN & Johnson R 1967 A genetic study of leaf rust resistance in wheat. *Canadian Journal of Genetics and Cytology* 9: 805-822.
771. Law CN & Wolfe MS 1966 Location of genetic factors for mildew resistance and ear emergence time on chromosome 7B of wheat. *Canadian Journal of Genetics and Cytology* 8: 462-470.
772. Law CN, Snape JW & Worland AJ 1981 Intra-specific chromosome manipulation. *Philosophical Transactions of the Royal Society of London*, B 292: 509-518.
773. Law CN, Suarez E, Miller TE & Worland AJ 1998 The influence of the group 1 chromosomes of wheat on ear-emergence times and their involvement with vernalization and day length. *Heredity* 80: 83-91.
774. Law CN, Sutka J & Worland AJ 1978 A genetic study of day-length response in wheat. *Heredity* 41: 185-191.
775. Law CN, Worland AJ & Giorgi B 1975 The genetic control of ear emergence time by chromosomes 5A and 5D of wheat. *Heredity* 36: 49-58.
776. Law CN, Worland AJ, Hollins TW, Koebner RMD & Scott PR 1988 The genetics of two sources of resistance to eyespot (*Pseudocercospora herpotrichoides*) in wheat. *Proceedings of the 7th International Wheat Genetics Symposium IPSR*, Cambridge, UK



- (Miller TE & Koebner RMD eds.): 835-840.
777. Law CN, Young CF, Brown JWS, Snape JW & Worland AJ 1978 The study of grain protein control in wheat using whole chromosome substitution lines. *In*, Seed Protein Improvement by Nuclear Techniques I.A.E.A., Vienna, Austria 483-502.
778. Lawrence GJ 1986 The high-molecular-weight glutenin subunit composition of Australian wheat cultivars. *Australian Journal of Agricultural Research* 37: 125-133.
779. Lawrence GJ & Appels R 1986 Mapping the nucleolus organiser region, seed protein loci, and isozyme loci on chromosome 1R in rye. *Theoretical and Applied Genetics* 71: 742-749.
780. Lawrence GJ & Shepherd KW 1980 Variation in glutenin protein subunits in wheat. *Australian Journal of Biological Sciences* 33: 221-233.
781. Lawrence GJ & Shepherd KW 1981 Chromosomal locations of genes controlling seed proteins in species related to wheat. *Theoretical and Applied Genetics* 59: 25-31.
782. Lawrence GJ, Macritchie F & Wrigley CW 1988 Dough and baking quality of wheat lines deficient in glutenin subunits controlled by the *Glu-A1*, *Glu-B1* and *Glu-D1* loci. *Journal of Cereal Science* 7: 109-112.
783. Lazar MD, Peterson GL & Hu J 1995 Multigenic inheritance of biotype-E greenbug resistance in wheat. *Plant Breeding* 114: 492-496.
784. Lazarus CM, Baulcombe DC & Martionssen RA 1985 Amylase genes of wheat are two multigene families which are differentially expressed. *Plant Molecular Biology* 5: 13-24.
785. Le Roux J & Rijkenberg FHJ 1987 Pathotypes of *Puccinia graminis* f. sp. *tritici* with increased virulence for *Sr24*. *Plant Disease* 71: 1115-1119.
786. Leath S & Heun M 1990 Identification of powdery mildew resistance genes in cultivars of soft red winter wheats. *Plant Disease* 74: 747-752.
787. Lebsock KL & Briggles LW 1974 Gene *Pm5* for resistance to *Erysiphe graminis* f. sp. *tritici* in Hope wheat. *Crop Science* 14: 561-563.
788. Lebsock KL, Joppa LR & Walsh D 1973 Effect of daylength response on agronomic and quality characteristics of durum wheat. *Crop Science* 13: 670-674.
789. Leckie D, Snape JW & Parker BB 1988 Intrachromosomal mapping of the herbicide resistance gene *Dfq1* in hexaploid wheat. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK* (Miller TE & Koebner RMD eds.): 551-554.
790. Lein A 1943 (The genetical basis of the crossability between wheat and rye.). *Z. Ind. Abst. Vererbl.* 81: 28-61. *Cited Plant Breeding Abstracts* 14: 1197, p. 304.
791. Leisle D & Ausemus ER 1965 Inheritance of stem rust reaction in a Frontana-Kenya 58-Newthatch derivative. *Canadian Journal of Genetics and Cytology* 7: 422-429.
792. Leisle D, Kovacs MI & Howes N 1985 Inheritance and linkage relationships of gliadin proteins and glume colour in durum wheat. *Canadian Journal of Genetics and Cytology* 27: 716-721.
793. Leitch IJ & Heslop-Harris JS 1993 Physical mapping of four sites of 5S rDNA sequences and one site of the  $\alpha$ -amylase-2 gene in barley (*Hordeum vulgare*). *Genome* 36: 517-523.
794. Leitch IJ & Heslop-Harrison JS 1992 Physical mapping of the 18S-5.8S-2.6S rRNA genes in barley by *in situ* hybridization. *Genome* 35: 1013-1018.
795. Levy AA & Feldman M 1987 Personal communication.
796. Levy AA & Feldman M 1988 Ecogeographical distribution of HMW glutenin alleles in populations of the wild tetraploid wheat *Triticum turgidum* var. *dicoccoides*. *Theoretical and Applied Genetics* 75: 651-658.
797. Levy AA & Feldman M 1989 Genetics of morphological traits in wild wheat, *Triticum*

- turgidum* var. *dicoccoides*. *Euphytica* 40: 275-281.
798. Levy AA, Galili G & Feldman M 1988 Polymorphism and genetic control of high molecular weight glutenin subunits in wild tetraploid wheat *Triticum turgidum* var. *dicoccoides*. *Heredity* 61: 63-72.
799. Levy O, Benyamini Y, Rubin B, Krugman T & Nevo E 1996 Chlortoluron resistance identification and genetic analysis in wild emmer wheat (*Triticum dicoccoides*). Proceedings of the Second International Weed Control Congress Copenhagen, Denmark, 25-28 June, 1996: Volumes 1-4. Department of Weed Control and Pesticide Ecology, Slagelse, Denmark. Pp 523-528.
800. Liang GH, Wang RC, Niblett CL & Heyne EG 1979 Registration of B-6-37-1 wheat germplasm. *Crop Science* 19: 421
801. Limin AE, Danyluk J, Chauvin L-P, Fowler DB & Sarhan F 1997 Chromosome mapping of low-temperature induced Wcs120 family genes and regulation of cold-tolerance expression in wheat. *Molecular and General Genetics* 253: 720-727.
802. Limpert E, Felsenstein FG & Andrivon D 1987 Analysis of virulence in populations of wheat powdery mildew in Europe. *Journal of Phytopathology* 120: 1-8.
803. Litts JC, Simmons CR, Karrer CF, Huang RL & Rodriguez RL 1990 The isolation and characterization of a barley 1,3-1,4-b-glucanase gene. *European Journal of Biochemistry* 194: 831-838.
804. Liu B, Segal G, Vega JM, Feldman M & Abbo S 1997 Isolation and characterization of chromosome-specific DNA sequences from a chromosome arm genomic library of common wheat. *The Plant Journal* 11: 959-965.
805. Liu BH 1987 Isolation of a spontaneous chromosome translocation in common wheat. *Plant Breeding* 98: 266-267.
806. Liu BH & Deng JY 1986 A dominant gene for male sterility in wheat. *Plant Breeding* 97: 204-209.
807. Liu BH & Deng JY 1986 Genome study and telosomic analysis of the single dominant male-sterile *Tal* gene in common wheat. *Scientia Sinica (Series B)* 29: 516-526.
808. Liu CJ 1991 Biochemical markers in wheat. PhD Thesis, Cambridge University, UK.
809. Liu CJ & Gale MD 1988 Three new marker systems, iodine binding factor (*Ibf-1*), malic enzyme (*Mal-1*) and malate dehydrogenase (*Mdh-3*) in wheat and related species. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 555-560.
810. Liu CJ & Gale MD 1989 Evidence for the genetic control of hexokinase isozymes by homoeologous group 3 chromosomes in wheat. *Cereal Research Communications* 17: 101-104.
811. Liu CJ & Gale MD 1989 The chromosomal location of a third set of malate dehydrogenase loci, *Mdh-3*, in wheat, barley and related species. *Theoretical and Applied Genetics* 78: 349-352.
812. Liu CJ & Gale MD 1990 *Est-7*, a set of genes controlling green tissue esterases in wheat and related species. *Theoretical and Applied Genetics* 79: 781-784.
813. Liu CJ & Gale MD 1991 The chromosomal location of genes encoding NADH dehydrogenase isozymes in hexaploid wheat and related species. *Genome* 34: 44-51.
814. Liu CJ & Gale MD 1994 The genetical control and tissue-specificity of esterase isozymes in hexaploid wheat. *Theoretical and Applied Genetics* 88: 796-802.
815. Liu CJ, Atkinson MD, Chinoy CN, Devos KM & Gale MD 1992 Nonhomoeologous translocations between group 4, 5 and 7 chromosomes within wheat and rye. *Theoretical and*

- Applied Genetics 83: 305-312.
816. Liu CJ, Chao S & Gale MD 1989 The genetical control of tissue specific peroxidases, *Per-1*, *Per-2*, *Per-3*, *Per-4*, and *Per-5* in wheat. *Theoretical and Applied Genetics* 79: 305-313.
817. Liu CJ, Chao S & Gale MD 1989 *Wsp-1*, a set of genes controlling water-soluble proteins in wheat and related species. *Genetical Research, Cambridge* 54: 173-181.
818. Liu CJ & Gale MD 1989 *Ibf-1* (Iodine binding factor), a highly variable marker system in the *Triticeae*. *Theoretical and Applied Genetics* 77: 233-240.
819. Liu C-Y 1995 Identification of a new low-Mr glutenin subunit locus on chromosome 1B of durum wheat. *Journal of Cereal Science* 21: 209-213.
820. Liu JQ & Kolmer JA 1997 Genetics of leaf rust resistance in Canadian spring wheats AC Domain and AC Taber. *Plant Disease* 81: 757-760.
821. Liu JQ & Kolmer JA 1997 Inheritance of leaf rust resistance in wheat cultivars Grandin and CDC Teal. *Plant Disease* 81: 505-508.
822. Liu Y-G & Tsunewaki K 1991 Restriction fragment length polymorphism (RFLP) analysis in wheat. II. Linkage maps of the RFLP sites in common wheat. *Japanese Journal of Genetics* 66: 617-633.
823. Livers RW 1964 Fertility restoration and its inheritance in cytoplasmic male-sterile wheat. *Science* 144: 420.
824. Livers RW 1978 Registration of Larned wheat. *Crop Science* 18: 917-918.
825. Livers RW 1978 Registration of Sage wheat. *Crop Science* 18: 917.
826. Loegering WQ 1975 An allele for low reaction to *Puccinia graminis tritici* in Chinese Spring wheat. *Phytopathology* 65: 925.
827. Loegering WQ Personal communication.
828. Loegering WQ & Harmon DL 1969 Wheat lines near-isogenic for reaction to *Puccinia graminis tritici*. *Phytopathology* 59: 456-459.
829. Loegering WQ & Sears ER 1963 Distorted inheritance of stem rust resistance of Timstein wheat caused by a pollen-killing gene. *Canadian Journal of Genetics and Cytology* 5: 65-72.
830. Loegering WQ & Sears ER 1966 Relationships among stem-rust genes on wheat chromosomes 2B, 4B and 6B. *Crop Science* 6: 157-160.
831. Loegering WQ & Sears ER 1970 *Sr9d* - a gene in Hope wheat for reaction to *Puccinia graminis tritici*. *Zeitschrift fur Pflanzenzuchtung* 64: 335-339.
832. Loegering WQ & Sears ER 1973 The gene for low reaction to *Puccinia graminis tritici* in the Thatcher-3B substitution line. *Crop Science* 13: 282.
833. Loi L, Ahluwalia B & Fincher GB 1988 Chromosomal location of genes encoding barley (1-3,1-4)-beta-Glucan 4-Glucanohydrolases. *Plant Physiology* 87: 300-302.
834. Longstaff M, Raines CA, McMorrow EM, Bradbeer JW & Dyer TA 1989 Wheat phosphoglycerate kinase: evidence for recombination between the genes for chloroplastic and cytosolic enzymes. *Nucleic Acids Research* 17: 6569-6580.
835. Longwell AR & Svihla G 1960 Specific chromosomal control of the nucleolus and of the cytoplasm in wheat. *Experimental Cell Research* 20: 294-312.
836. Lookhart GL, Hagman K & Kasarda DD 1993 High-molecular-weight glutenin subunits of the most commonly grown wheat cultivars in the U.S. in 1984. *Plant Breeding* 110: 48-62.
837. Love HH & Craig WT 1924 The inheritance of pubescent nodes in a cross between two varieties of wheat. *Journal of Agricultural Research* 28: 841-844.
838. Lowry JR, Sammons DJ, Baenziger PS & Moseman JG 1984 Identification and characterization of the gene conditioning powdery mildew resistance in 'Amigo' wheat. *Crop*

- Science 24: 129-132.
839. Luig NH 1964 Heterogeneity in segregation data from wheat crosses. *Nature* 204: 260-261.
840. Luig NH 1968 Mechanisms of differential transmission of gametes in wheat. Proceedings of the 3rd International Wheat Genetics Symposium, Australian Academy of Science, Canberra (Finlay KW & Shepherd KW eds.): 322-323.
841. Luig NH 1983 A Survey of Virulence Genes in Wheat Stem Rust, *Puccinia graminis* f. sp. *tritici*. Paul Parey, Berlin 212pp.
842. Luig NH Personal communication.
843. Luig NH & McIntosh RA 1968 Location and linkage of genes on wheat chromosome 2D. *Canadian Journal of Genetics and Cytology* 10: 99-105.
844. Luig NH & Watson IA 1965 Studies on the genetic nature of resistance to *Puccinia graminis* var. *tritici* in six varieties of common wheat. *Proceedings of the Linnaean Society of New South Wales* 90: 299-327.
845. Luig NH & Watson IA 1967 Vernstein - a *Triticum aestivum* derivative with Vernal emmer type stem rust resistance. *Crop Science* 7: 31-33.
846. Lukaszewski AJ & Curtis CA 1994 Transfer of the *Glu-D1* gene from chromosome 1D to chromosome 1A in hexaploid triticale. *Plant Breeding* 112: 177-182.
847. Lukow OM, Payne PI & Tkachuk R 1989 The HMW glutenin subunit composition of Canadian wheat cultivars and their association with bread-making quality. *Journal of Science Food and Agriculture* 46: 451-460.
848. Luo MC & Dvorak J 1996 Molecular mapping of an aluminum tolerance locus on chromosome 4D of Chinese Spring wheat. *Euphytica* 91: 31-35.
849. Luo MC, Dubcovsky J, Goyal S & Dvorak J 1996 Engineering of interstitial foreign chromosome segments containing the  $K^+/Na^+$  selectivity gene *Knal* by sequential homoeologous recombination in durum wheat. *Theoretical and Applied Genetics* 93: 1180-1184.
850. Luo MC, Yen C & Yang JL 1993 Crossability percentages of bread wheat landraces from Shaanxi and Henan provinces, China, with rye. *Euphytica* 67: 1-8.
851. Lupton FCH & Macer RCF 1962 Inheritance of resistance to yellow rust (*Puccinia glumarum* Erikss. and Henn.) in seven varieties of wheat. *Transactions of the British Mycological Society* 45: 21-45.
852. Lutz J, Hsam SLK, Limpert E & Zeller FJ 1994 Powdery mildew resistance in *Aegilops tauschii* Coss. and synthetic hexaploid wheats. *Genetic Resources and Crop Evolution* 41: 151-158.
853. Lutz J, Hsam SLK, Limpert E & Zeller FJ 1995 Chromosomal location of powdery mildew resistance genes in *Triticum aestivum* L. (common wheat) 2. Genes *Pm2* and *Pm19* from *Aegilops squarrosa* L. *Heredity* 74: 152-156.
854. Lutz J, Katzhammer M, Stephan U, Felsenstein FG, Oppitz K & Zeller FJ 1995 Identification of powdery-mildew-resistance genes in common wheat (*Triticum aestivum* L. em Thell.). V. Old German cultivars and cultivars released in the former GDR. *Plant Breeding* 114: 29-33.
855. Lutz J, Limpert E, Bartos P & Zeller FJ 1992 Identification of powdery mildew resistance genes in common wheat (*Triticum aestivum* L.) I. Czechoslovakian cultivars. *Plant Breeding* 108: 33-39.
856. Ma H & Hughes GR 1993 Personal communication.
857. Ma H & Hughes GR 1995 Genetic control and chromosomal location of *Triticum timopheevii*-derived resistance to *septoria nodorum* blotch in durum wheat. *Genome* 38:

- 332-338.
858. Ma R, Zheng DS & Fan L 1996 The crossability percentages of 96 bread wheat landraces and cultivars from Japan and rye. *Euphytica* 92: 301-306.
859. Ma ZQ 1994 Personal communication.
860. Ma ZQ & Sorrells ME 1995 Genetic analysis of fertility restoration in wheat using restriction fragment length polymorphism. *Crop Science* 35: 1137-1143.
861. Ma ZQ, Gill BS, Sorrells ME & Tanksley SD 1993 RFLP markers linked to two Hessian fly-resistance genes in wheat (*Triticum aestivum* L.) from *Triticum tauschii* (Coss.) Schmal. *Theoretical and Applied Genetics* 85: 750-754.
862. Ma ZQ, Gill BS, Sorrells ME, & Tanksley SD 1993 RFLP markers linked to two Hessian fly resistance genes in wheat (*Triticum aestivum* L.) from *Triticum tauschii* (Coss.) Schmal. *Theoretical and Applied Genetics* 85: 750-754.
863. Ma ZQ, Saidi A, Quick JS & Lapitan NLV 1998 Genetic mapping of Russian wheat aphid resistance genes *Dn2* and *Dn4* in wheat. *Genome* 41: 303-306.
864. Ma ZQ, Sorrells ME & Tanksley SD 1994 RFLP markers linked to powdery mildew resistance genes *Pm1*, *Pm2*, *Pm3* and *Pm4a* in wheat. *Genome* 37: 871-875.
865. Ma ZQ, Zhao ZH & Sorrells ME 1995 Inheritance and chromosomal location of a male fertility restoring gene transferred from *Aegilops umbellulata* Zhuk. to *Triticum aestivum* L. *Molecular and General Genetics* 247: 351-357.
866. Maan SS 1975 Exclusive preferential transmission of an alien chromosome in common wheat. *Crop Science* 15: 278-292.
867. Maan SS 1992 A gene for embryo-endosperm compatibility and seed viability in alloplasmic *Triticum turgidum*. *Genome* 35: 772-779.
868. Maan SS 1992 Genetic analysis of male fertility restoration in wheat: IV. Fertile line without major *Rf* genes. *Crop Science* 32: 24-28.
869. Maan SS 1992 Transfer of a species cytoplasm specific (*scs*) gene from *Triticum timopheevi* to *T. turgidum*. *Genome* 35: 238-243.
870. Maan SS 1994 Interactions between the *scs* and *Vi* genes in alloplasmic durum wheat. *Genome* 37: 210-216.
871. Maan SS Personal communication.
872. Maan SS, Carlson KM, Williams ND & Yang T 1987 Chromosomal arm location and gene-centromere distance of a dominant gene for male sterility in wheat. *Crop Science* 27: 494-500.
873. Maan SS, Lucken KA & Bravo JM 1984 Genetic analyses of male fertility restoration in wheat I. Chromosome location of *Rf* genes. *Crop Science* 24: 17-20.
874. Maas FB, Patterson FL, Foster JE & Hatchett JH 1987 Expression and inheritance of resistance of 'Marquillo' wheat to Hessian fly. *Crop Science* 27: 49-52.
875. Maas FB, Patterson FL, Foster JE & Ohm HW 1989 Expression and inheritance of resistance of ELS6404-160 durum wheat to Hessian fly. *Crop Science* 29: 23-28
876. MacDonald MD 1987 Registration of two winter wheat disomic whole chromosome substitution germplasm lines. *Crop Science* 27: 1097.
877. Macer RCF 1966 The formal and monosomic genetic analysis of stripe rust (*Puccinia striiformis*) resistance in wheat. *Proceedings of the 2nd International Wheat Genetics Symposium Lund, Sweden 1963* (MacKey J ed.): *Hereditas Supplement* 2: 127-142.
878. Macer RCF 1975 Plant pathology in a changing world. *Transactions of the British Mycological Society* 65: 351-374.

879. Macindoe SL & Walkden-Brown C 1968 Wheat Breeding in Australia. Science Bulletin, Third Edition. Division of Plant Industry, New South Wales Department of Agriculture, Australia. 76: 255pp.
880. Mackay MC 1987 Register of Cereal Cultivars in Australia; cv. Schomburgk. The Journal of the Australian Institute of Agricultural Science 53: 120-122.
881. MacKey J 1954 Neutron and x-ray experiments in wheat and a revision of the speltoid problem. Hereditas 40: 65-180.
882. Mahgoub El-S & Obenbach W 1988 Genetical analysis of wheat endosperm storage proteins using reciprocal sets of inbred backcross lines. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 571-576.
883. Maystrenko OI 1973 (Location of chromosomes carrying the genes *Vrn1* and *Vrn3* suppressing winter habit in wheat). Tsitogentich. Issled. Aneuploidov Myagk. Pshenitsy. Novosibirsk. U.S.S.R. 745: 169-177. Cited Plant Breeding Abstracts 46: 8823, p. 745.
884. Maystrenko OI 1976 (Identification and location of genes controlling leaf hairiness in young plants of bread wheat). Genetika, U.S.S.R. 12: 5-15. Cited Plant Breeding Abstracts 47: 9205, p. 784.
885. Maystrenko OI 1980 Cytogenetic study of the growth habit and ear-emergence time in wheat (*Triticum aestivum* L.). Well-Being of Mankind and Genetics: Proceedings of the 14th International Congress of Genetics MIR Publishers, Moscow. Vol 1, Book 2: 267-282.
886. Maystrenko OI 1986 Personal communication.
887. Maystrenko OI & Aliev EB 1985 Chromosomal location of genes responsible for photoperiodic reaction in a non-sensitive spring variety of common wheat, Shabati Sonora. Cereal Research Communications 13: 363-369.
888. Mao L, Devos KM, Zhu L & Gale MD 1997 Cloning and genetic mapping of wheat telomere-associated sequences. Molecular and General Genetics 254: 584-591.
889. Marais GF 1990 Preferential transmission in bread wheat of a chromosome segment derived from *Thinopyrum distichum* (Thunb.) Love. Plant Breeding 104: 152-159.
890. Marais GF 1992 Gamma irradiation induced deletions in an alien chromosome segment of the wheat 'Indis' and their use in gene mapping. Genome 35: 225-229.
891. Marais GF 1992 Genetic control of a response to the segregation allele, *Sd-1d* in the common wheat line 'Indis'. Euphytica 60: 89-95.
892. Marais GF 1992 The modification of a common wheat-*Thinopyrum distichum* translocated chromosome with a locus homoeoallelic to *Lr19*. Theoretical and Applied Genetics 35: 73-78.
893. Marais GF 1997 Personal communication.
894. Marais GF, Wessels WG & Horn M 1998 Association of a stem rust resistance gene (*Sr45*) and two Russian wheat aphid resistance genes (*Dn5* and *Dn7*) with mapped structural loci in wheat. South African Journal of Plants and Soil 15(2): 61-67.
895. Marais GF & du Toit F A monosomic analysis of Russian wheat aphid resistance in the common wheat PI 294994. Plant Breeding 111: 246-248.
896. Marais GF & Marais AS 1994 The derivation of compensating translocations involving homoeologous group 3 chromosomes of wheat and rye. Euphytica 79: 75-80.
897. Marais GF, Potgieter GF, Roux HS & le Roux J 1994 An assessment of the variation for stem rust resistance in the progeny of a cross involving the *Triticum* species *aestivum*, *turgidum* and *tauschii*. South African Journal of Plants and Soil 11: 15-19.
898. Marana C, Garcia-Olmedo F & Carbonero P 1988 Linked sucrose synthase genes in group-7

- chromosomes in hexaploid wheat (*Triticum aestivum* L.). *Gene* 63: 253-260.
899. Marchylo BA, Lukow OM & Kruger JE 1992 Quantitative variation in high molecular weight glutenin subunit 7 in some Canadian wheats. *Journal of Cereal Science* 15: 29-37.
900. Marino CL, Nelson JC, Lu YH, Sorrells ME, Leroy P, Tuleen NA, Lopes CR & Hart GE 1996 Molecular genetic maps of the group 6 chromosomes of hexaploid wheat (*Triticum aestivum* L. em. Thell.). *Genome* 39: 359-366.
901. Marshall D, Gardenshire JH, Gilmore EC, McDaniel ME & Erikson CA 1988 Registration of 'Collin' wheat. *Crop Science* 28: 868.
902. Martienssen RA 1986 The molecular genetics of alpha-amylase gene families in wheat (*Triticum aestivum* L.). PhD Thesis, Cambridge University, UK.
903. Martin TJ, Harvey TL & Hatchett JH 1982 Registration of greenbug and Hessian fly resistant wheat germplasm. *Crop Science* 22: 1089.
904. Martin TJ, Sears RG, Hatchett JH, Wetzell DL, Shogren MD, Witt MD & Lawless JR 1988 Registration of 'Norkan' wheat. *Crop Science* 28: 198.
905. Martinez I, Bernard M, Nicolas P & Bernard S 1994 Study of androgenetic performance and molecular characterisation of a set of wheat-rye addition lines. *Theoretical and Applied Genetics* 89: 982-990.
906. Martini G, O'Dell M & Flavell RB 1982 Partial inactivation of wheat nucleolus organisers by the nucleolus organiser chromosomes from *Aegilops umbellulata*. *Chromosoma* 84: 687-700.
907. Masojc P & Gale MD 1991  $\alpha$ -Amylase structural genes in rye. *Theoretical and Applied Genetics* 82: 771-776.
908. Masojc P, Zawistowski J, Howes NK, Aung T & Gale MD 1993 Polymorphism and chromosomal location of an endogenous  $\alpha$ -amylase inhibitor genes in common wheat. *Theoretical and Applied Genetics* 85: 1043-1048.
909. Masua S, Liu YG, Sakamoto A, Nakajama T, Iwabuchi M & Tsunewaki K 1993 Chromosomal locations of the genes for histones and a histone gene binding protein family HBP-1 in common wheat. *Plant Molecular Biology* 22: 603-614.
910. Matsumura S 1936 (Genetical studies on pentaploid wheat hybrids. II. Inheritance of the morphological characters independent of chromosome numbers in the combination of *Triticum polonicum* x *T. spelta*). *Japanese Journal of Genetics* 12: 289-306. *Cited Plant Breeding Abstracts* 7: 953, p.303.
911. Matsumura S 1950 Linkage studies in *Triticum* II. *P*-linkage and the manifold effects of the *P* gene. *Japanese Journal of Genetics* 25: 111-118. *Cited Plant Breeding Abstracts* 23 (1953): 2557, p.555.
912. Matsumura S 1951 Other studies on wheats. Annual Report of the National Institute of Genetics, Japan 1949-50 1: 25-27. *Cited Plant Breeding Abstracts* 23: 171, p.44.
913. Matsumura S & Mochizuki A 1943 (Linkage studies in common wheat). *Japanese Journal of Genetics* 19: 104-106. *Cited Plant Breeding Abstracts* 21: 2527, p.824.
914. Matsumura S & Mochizuki A 1943 Linkage studies in wheat, I. S-group. *Seiken Zihō* 2: 14-23. *Cited Plant Breeding Abstracts* 20: 1523, p.470.
915. Mattern PJ, Morris R, Schmidt JW & Johnson VA 1973 Location of genes for kernel properties in the wheat variety 'Cheyenne' using chromosome substitution lines. *Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri (Sears ER & Sears LMS eds.):* 703-708.
916. May CE & Appels R 1984 Seedling lethality in wheat a novel phenotype associated with a 2RS/2BL translocation chromosome. *Theoretical and Applied Genetics* 68: 163-168.

917. May CE & Appels R 1987 Variability and genetics of spacer DNA sequences between the ribosomal-RNA genes of hexaploid wheat (*Triticum aestivum*). *Theoretical and Applied Genetics* 74: 617-624.
918. May CE & Appels R 1988 Allelism of the nucleolus organiser regions of hexaploid wheat. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK* (Miller TE & Koebner RMD eds.): 577-583.
919. May CE, Vickery RS & Driscoll CJ 1973 Gene control in hexaploid wheat. *Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri* (Sears ER & Sears LMS eds.): 843-849.
920. Maystrenko OI 1987 Discovery of allelism in *Vrn2* locus of common wheat, its development type and its chromosome localization. *Ecological Genetics of Plants and Animals. Thesis Reports, 3rd All-Union Conference. Kishinev, 'Shtiintsa'* (In Russian). p. 148-149.
921. Maystrenko OI 1992 The use of cytogenetic methods in ontogenesis study of common wheat. *In: Ontogenetics of higher plants. 'Kishinev, 'Shtiintsa'*. (In Russian). p. 98-114.
922. Maystrenko OI 1993 Chromosome localization of gene *Eg* controlling the formation of elongated glumes in *Triticum polonicum* L. species. (In press). (In Russian).
923. Maystrenko OI 1993 Establishing allelism in the *B1* locus on expression of common wheat awnedness inhibitor. (In press). (In Russian).
924. Maystrenko OI 1993 Identification and chromosome localization of gene *Rg3* controlling red glume colour of the common wheat ear. (In press). (In Russian).
925. Maystrenko OI 1993 Personal communication.
926. Maystrenko OI & Gamzikova OI 1989 Identification of wheat plant genes reacting on iron deficiency. *Particular Genetics of Plants, Vol. 1. Summary Thesis of Conference Reports, Kiev.* (In Russian). p. 146-147.
927. Maystrenko OI & Gamzikova OI 1993 Mapping to chromosome arms of genes *Fe1* and *Fe2* controlling the reaction of iron deficiency in common wheat. (In press). (In Russian).
928. McDonald D, McIntosh RA, Wellings CR, Singh RP & Nelson JC 2003 Cytogenetical Studies in Wheat XIX. Location and linkage studies on gene *Yr27* for resistance to stripe (yellow) rust. Submitted.
929. McIntosh RA 1972 Cytogenetical studies in wheat VI. Chromosome location and linkage studies involving *Sr13* and *Sr8* for reaction to *Puccinia graminis* f. sp. *tritici*. *Australian Journal of Biological Sciences* 25: 765-773.
930. McIntosh RA 1976 Genetics of wheat and wheat rusts since Farrer. *Journal of the Australian Institute of Agricultural Science* 42: 203-216.
931. McIntosh RA 1977 Nature of induced mutations affecting disease reaction in wheat. *Induced Mutations against Plant Disease I.A.E.A., Vienna.* 551-565.
932. McIntosh RA 1978 Cytogenetical studies in wheat. X. Monosomic analysis and linkage studies involving genes for resistance to *Puccinia graminis* f. sp. *tritici* in cultivar Kota. *Heredity* 41: 71-82.
933. McIntosh RA 1980 Chromosome location and linkage studies involving the wheat stem rust resistance gene *Sr14*. *Cereal Research Communications* 8: 315-320.
934. McIntosh RA 1981 A gene for stem rust resistance in non-homoeologous chromosomes of hexaploid wheat progenitors. *Proceedings XIII International Botanical Congress, Sydney, Australia.* (Carr DJ ed.): 274.
935. McIntosh RA 1983 Genetic and cytogenetic studies involving *Lr18* for resistance to *Puccinia recondita*. *Proceedings of the 6th International Wheat Genetics Symposium Kyoto,*



- Japan (Sakamoto S ed.): 777-783.
936. McIntosh RA 1988 Catalogue of gene symbols for wheat. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 2: 1225-1323.
937. McIntosh RA 1992 Close genetic linkage of genes conferring adult-plant resistance to leaf rust and stripe rust in wheat. *Plant Pathology* 41: 523-527.
938. McIntosh RA 1994 In preparation.
939. McIntosh RA Unpublished.
940. McIntosh RA & Arts CJ 1996 Genetic linkage of the *Yr1* and *Pm4* genes for stripe rust and powdery mildew resistances in wheat. *Euphytica* 89: 401-403.
941. McIntosh RA & Baker EP 1967 Inheritance of purple pericarp in wheat. Proceedings of the Linnaean Society of New South Wales 92: 204-208.
942. McIntosh RA & Baker EP 1968 A linkage map for chromosome 2D. Proceedings of the 3rd International Wheat Genetics Symposium, Australian Academy of Science, Canberra (Findlay KW & Shepherd KW eds.): 305-309
943. McIntosh RA & Baker EP 1968 Chromosome location and linkage studies involving the *Pm3* locus for powdery mildew resistance in wheat. Proceedings of the Linnaean Society of New South Wales 93: 232-238.
944. McIntosh RA & Baker EP 1969 Telocentric mapping of a second gene for grass-clump dwarfism. *Wheat Information Service* 29: 6-7.
945. McIntosh RA & Baker EP 1970 Cytogenetic studies in wheat IV. Chromosome location and linkage studies involving the *Pm2* locus for powdery mildew resistance. *Euphytica* 19: 71-77.
946. McIntosh RA & Baker EP 1970 Cytogenetic studies in wheat V. Monosomic analysis of Vernstein stem rust resistance. *Canadian Journal of Genetics and Cytology* 12: 60-65.
947. McIntosh RA & Bennett FGA 1978 Telocentric mapping of genes *Pm3a* and *Hg* on chromosome 1A of hexaploid wheat. *Cereal Research Communications* 6: 9-14.
948. McIntosh RA & Dyck PL 1975 Cytogenetical studies in wheat VII. Gene *Lr23* for reaction to *Puccinia recondita* in Gabo and related cultivars. *Australian Journal of Biological Sciences* 28: 201-211.
949. McIntosh RA & Gyrfas J 1971 *Triticum timopheevi* as a source of resistance to wheat stem rust. *Zeitschrift für Pflanzenzüchtung* 66: 240-248.
950. McIntosh RA & Luig NH 1973 Linkage of genes for reaction to *Puccinia graminis* f. sp. *tritici* and *P. recondita* in Selkirk wheat and related cultivars. *Australian Journal of Biological Sciences* 26: 1145-1152.
951. McIntosh RA & Luig NH 1973 Recombination between genes for reaction to *Puccinia graminis* at or near the *Sr9* locus. Proceedings of the 4th International Wheat Genetics Symposium, Columbia, Missouri (Sears ER & Sears LMS eds.): 425-532.
952. McIntosh RA et al 1995 In preparation.
953. McIntosh RA et al 1998 Personal communication.
954. McIntosh RA, Baker EP & Driscoll CJ 1965 Cytogenetic studies in wheat I. Monosomic analysis of leaf rust resistance in cultivars Uruguay and Transfer. *Australian Journal of Biological Sciences* 18: 971-977.
955. McIntosh RA, Dyck PL & Green GJ 1974 Inheritance of reaction to stem rust and leaf rust in the wheat cultivar Etoile de Choisy. *Canadian Journal of Genetics and Cytology* 16: 571-577.

956. McIntosh RA, Dyck PL & Green GJ 1977 Inheritance of leaf rust and stem rust resistances in wheat cultivars Agent and Agatha. *Australian Journal of Agricultural Research* 28: 37-45.
957. McIntosh RA, Dyck PL, The TT, Cusick JE & Milne DL 1984 Cytogenetical studies in wheat XIII. *Sr35*-a third gene from *Triticum monococcum* for resistance to *Puccinia graminis tritici*. *Zeitschrift fur Pflanzenzuchtung* 92: 1-14.
958. McIntosh RA, Friebe B, Jiang J, The D & Gill BS 1995 Chromosome location of a new gene for resistance to leaf rust in a Japanese wheat-rye translocation line. *Euphytica* 82: 141-147.
959. McIntosh RA, Hart GE & Gale MD 1989 Catalogue of gene symbols for wheat: 1989 supplement. *Annual Wheat Newsletter* 35: 231-241.
960. McIntosh RA, Hart GE & Gale MD 1991 Catalogue of gene symbols: 1991 supplement. *Wheat Newsletter* 37: 200-216.
961. McIntosh RA, Hart GE & Gale MD 1995 Catalogue of gene symbols for wheat. *Proceedings 8th International Wheat Genetics Symposium, Beijing, 1993* (Li ZS & Xin ZY eds.): 1333-1500.
963. McIntosh RA, Hart GE, Devos, KM & Gale MD 1997 Catalogue of gene symbols for wheat: 1997 Supplement. *Wheat Information Service* 85: 56-81.
964. McIntosh RA, Luig NH & Baker EP 1967 Genetic and cytogenetic studies of stem rust, leaf rust and powdery mildew resistances in Hope and related wheat cultivars. *Australian Journal of Biological Sciences* 20: 1181-1192.
965. McIntosh RA, Luig NH, Johnson R & Hare RA 1981 Cytogenetical studies in wheat XI. *Sr9g* for reaction to *Puccinia graminis tritici*. *Zeitschrift fur Pflanzenzuchtung* 87: 274-289.
966. McIntosh RA, Luig NH, Milne DL & Cusick JE 1983 Vulnerability of triticales to wheat stem rust. *Canadian Journal of Plant Pathology* 5: 61-69.
967. McIntosh RA, Miller TE & Chapman V 1982 Cytogenetical studies in wheat XII. *Lr28* for resistance to *Puccinia recondita* and *Sr34* for resistance to *P. graminis tritici*. *Zeitschrift fur Pflanzenzuchtung* 89: 295-306.
968. McIntosh RA, Partridge M & Hare RA 1980 Telocentric mapping of *Sr12* in wheat chromosome 3B. *Cereal Research Communications* 8: 321-324.
969. McIntosh RA, Silk J & The TT 1996 Cytogenetic studies in wheat XVII. Monosomic analysis and linkage relationships of gene *Yr15* for resistance to stripe rust. *Euphytica* 89: 395-399.
970. McIntosh RA, Wellings CR & Park RF 1995 CSIRO Australia. *Wheat Rusts: An Atlas of Resistance Genes*.
971. McMillan JRA 1936 "Firing"-a heritable character of wheat. *Journal of the Council of Science Industry and Research of Australia* 9: 283-294.
972. McMillan JRA 1937 Investigations on the occurrence and inheritance of the grass clump character in crosses between varieties of *Triticum vulgare* (Vill.). *Bulletin of the Commonwealth Scientific Industry and Research Organization* 104: 68pp.
973. McMillin DE, Allan RE & Roberts DE 1986 Association of an isozyme locus and strawbreaker foot rot resistance derived from *Aegilops ventricosa* in wheat. *Theoretical and Applied Genetics* 72: 743-747.
974. McMillin DE, Johnson JW & Roberts JJ 1993 Linkage between endopeptidase *Ep-Dld* and a gene conferring leaf rust resistance (*Lr19*) in wheat. *Crop Science* 33: 1201-1203.
975. McNeal FH 1960 Yield components in a Lemhi x Thatcher wheat cross. *Agronomy Journal* 52: 348-349.
976. McVey DV 1989 Verification of infection-type data for identification of genes for resistance

- to leaf rust in some hard red spring wheats. *Crop Science* 29: 304-307.
977. McVey DV & Hamilton K 1985 Stem rust resistance gene from Triumph 64 identified in four other winter wheats. *Plant Disease* 69: 217-218.
978. McVey DV & Long DL 1993 Genes for leaf rust resistance in hard red winter wheat cultivars and parental lines. *Crop Science* 33: 1373-1381.
979. McVey DV & Roelfs AP 1975 Postulation of genes for stem rust resistance in the entries of the Fourth International Winter Wheat Performance Nursery. *Crop Science* 15: 335-337.
980. McVittie JA, Gale MD, Marshall GA & Westcott B 1978 The intra-chromosomal mapping of the Norin 10 and Tom Thumb genes. *Heredity* 40: 67-70.
981. Meadows JW, Hulford A, Raines CA & Robinson C 1991 Nucleotide sequence of a cDNA clone encoding the precursor of the 33 kDa protein of the oxygen-evolving complex from wheat. *Plant Molecular Biology* 16: 1085-1087.
982. Mecham DK, Kasarda DD & Qualset CO 1978 Genetic aspects of wheat gliadin proteins. *Biochemical Genetics* 16: 831-853.
983. Melz G & Thiele V 1990 Chromosome location of genes controlling 'purple leaf base' in rye and wheat. *Euphytica* 49: 155-159.
984. Mena M, Orellana J, Lopez-Brana I, Garcia-Olmedo F & Delibes A 1989 Biochemical and cytological characterization of wheat/*Aegilops ventricosa* additions and transfer lines carrying chromosome 4M<sup>v</sup>. *Theoretical and Applied Genetics* 77: 184-188.
985. Mena M, Orellana J, Lopez-Brana I, Garcia-Olmedo F & Delibes A 1993 Characterization of wheat/*Aegilops ventricosa* introgression and addition lines with respect to the M<sup>v</sup> genome. *Theoretical and Applied Genetics* 86: 197-204.
986. Merker A 1982 "Veery"- a CIMMYT spring wheat with the 1B/1R chromosome translocation. *Cereal Research Communications* 10: 105-106.
987. Metakovsky EV 1990 Organization of gliadin-encoding genes which are genetic markers in wheat. *Molecular mechanisms of genetic processes*, Nauka, Moscow (Sozinov AA & Schuppe NG eds.): 157-168.
988. Metakovsky EV 1991 Gliadin allele identification in common wheat II. Catalogue of gliadin alleles in common wheat. *Journal of Genetics and Breeding* 45: 325-344.
989. Metakovsky EV & Baboev SK 1992 Polymorphism and inheritance of gliadin polypeptides in *T. monococcum* L. *Theoretical and Applied Genetics* 84: 971-978.
990. Metakovsky EV & Baboev SK 1992 Polymorphism of gliadin and unusual gliadin alleles in *Triticum boeoticum*. *Genome* 35: 1007-1012.
991. Metakovsky EV & Branlard G 1998 Genetic diversity of French common wheat germplasm based on gliadin alleles. *Theoretical and Applied Genetics* 96: 209-218.
992. Metakovsky EV & Sozinov AA 1987 Organization, variability and stability of the family of the gliadin-coding genes in wheat: genetic data. *Gluten proteins. Proceedings of the 3rd International Workshop, Budapest, Hungary* (Lastity R & Bekes F eds.): 30-45.
993. Metakovsky EV, Akhmedov MG & Sozinov AA 1986 Genetic analysis of gliadin-encoding genes reveals gene clusters as well as single remote genes. *Theoretical and Applied Genetics* 73: 278-285.
994. Metakovsky EV, Knezevic D & Javornik B 1991 Gliadin allele composition of Yugoslav wheat cultivars. *Euphytica* 54: 285-295.
995. Metakovsky EV, Ng PKW, Chernakov VM, Pogna NE & Bushuk W 1993 Gliadin alleles in Canadian western red spring wheat cultivars: use of two different procedures of acid polyacrylamide gel electrophoresis for gliadin separation. *Genome* 36: 743-749.

996. Metakovsky EV, Yu Novoselskaya A, Kopus MM, Sobko TA & Sozinov AA 1984 Blocks of gliadin components in winter wheat detected by one-dimensional polyacrylamide gel electrophoresis. *Theoretical and Applied Genetics* 67: 559-568.
997. Mettin D, Bluthner WD & Schlegel G 1973 Additional evidence on spontaneous 1B/1R wheat rye substitutions and translocations. *Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri* (Sears ER & Sears LMS eds.): 179-184.
998. Mettin D, Bluthner WD & Weinrich M 1978 Studies on the nature and the possible origin of the spontaneously translocated 1B-1R chromosome in wheat. *Wheat Information Service* 47,48: 12-16.
999. Metz AM, Timmer RT & Browning KS 1992 Isolation and sequence of a cDNA encoding the cap binding protein of wheat eukaryotic protein synthesis initiation factor 4F. *Nucleic Acids Research* 20: 4096.
1000. Metzger RJ Personal communication.
1001. Metzger RJ & Schaller CW Personal communication.
1002. Metzger RJ & Silbaugh BA 1970 Inheritance of resistance to stripe rust and its association with brown glume colour in *Triticum aestivum* L.PI 178383. *Crop Science* 10: 567-568.
1003. Metzger RJ & Silbaugh BA 1970 Location of genes for seed colour in hexaploid wheat, *Triticum aestivum* L. *Crop Science* 10: 495-496.
1004. Metzger RJ & Silbaugh BA 1971 A new factor for resistance to common bunt in hexaploid wheats. *Crop Science* 11: 66-69.
1005. Metzger RJ, Rohde CR & Trione EJ 1963 Inheritance of genetic factors which condition resistance to the wheat variety Columbia to selected races of smut *Tilletia caries* and their association with red glumes. *Agronomy Abstracts* 85: *Cited Plant Breeding Abstracts*34: 3599, p.445.
1006. Metzger RJ, Schaller CW & Rohde CR 1979 Inheritance of resistance to common bunt in wheat, CI 7090. *Crop Science* 19: 309-312.
1007. Meyer H 1977 (Genetic investigations in wheat, *Triticum aestivum* L. Part 1 Investigations into the localization of mildew-resistant genes using monosomic analysis.). *Archiv. fur Zuchtungsforschung* 7: 203-210. *Cited Plant Breeding Abstracts* 47: 11323, p. 960.
1008. Mickelson-Young L, Endo TR & Gill BS 1995 A cytogenetic ladder map of the wheat homoeologous group-4 chromosomes. *Theoretical and Applied Genetics* 90: 1007-1011.
1009. Miczynski K 1938 (Genetic studies on the phenol colour reaction in wheat.). *Z. Zucht. A22*: 564-587. *Cited Plant Breeding Abstracts* 8: 9697, p. 195.
1010. Millan T, Devos KM, Chinoy CN, Litts JL, Quatrano RS & Gale MD 1992 Chromosomal location and RFLP utility in wheat and barley of a wheat gene encoding seed storage 7S globulin. *Theoretical and Applied Genetics* 85: 387-388.
1011. Miller TE 1984 The homoeologous relationship between the chromosomes of rye and wheat. Current status. *Canadian Journal of Genetics and Cytology* 26: 578-589.
1012. Miller TE, Gerlach WL & Flavell RB 1980 Nucleolus organiser variation in wheat and rye revealed by *in situ* hybridisation. *Heredity* 45: 377-382.
1013. Miller TE, Hutchinson J & Chapman V 1982 Investigation of a preferentially transmitted *Aegilops sharonensis* chromosome in wheat. *Theoretical and Applied Genetics* 61: 27-33.
1014. Miller TE, Hutchinson J & Reader SM 1983 The identification of the nucleolar organizer chromosomes of diploid wheat. *Theoretical and Applied Genetics* 65: 145-147.
1015. Miller TE, Reader SM & Ainsworth CC 1985 A chromosome of *Hordeum chilense* homoeologous to group 7 of wheat. *Canadian Journal of Genetics and Cytology* 27: 101-104.

1016. Miller TE, Reader SM & Singh D 1988 Spontaneous non-Robertsonian translocations between wheat chromosomes and an alien chromosome. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 387-390.
1017. Miller TE, Reader SM, Ainsworth CC & Summers RW 1987 The introduction of a major gene for resistance to powdery mildew of wheat, *Erysiphe graminis* f. sp. *tritici*, from *Aegilops speltoides* into wheat, *Triticum aestivum*. In, Cereal Breeding Related to Integrated Cereal Production: Proceedings of the EUCARPIA Conference, Wageningen, The Netherlands (Jorna ML & Shootmaker LAJ eds.): 179-183.
1018. Miller TE, Reader SM, Mahmood A, Purdie KA & King IP 1995 Chromosome 3N of *Aegilops uniaristata*-a source of tolerance to high levels of aluminium in wheat. Proceedings 8th International Wheat Genetics Symposium, Beijing, 1993 (Li ZS & Xin ZY eds.): 1037-1042.
1019. Milus EA & Line RF 1980 Virulence of *Puccinia recondita* in the Pacific Northwest. Plant Disease 64: 78-80.
1020. Mitchell LE, Dennis ES & Peacock WJ 1989 Molecular analysis of an alcohol dehydrogenase (*Adh*) gene from chromosome 1 of wheat. Genome 32: 349-358.
1021. Miura H, Parker BB & Snape JW 1992 The location of major genes associated with quantitative trait loci on chromosome arm 5BL of wheat. Theoretical and Applied Genetics 85: 197-204.
1022. Miyazaki J, Juricek M, Angelis K, Schnerr KM, Kleinhofs A, & Warner RL 1991 Characterization and sequence of a novel nitrate reductase from barley. Molecular and General Genetics 228: 329-334.
1023. Modawi RS, Browder LE & Heyne EG 1985 Genes for low reaction to *Puccinia recondita* in 'Newton' hard red winter wheat. Crop Science 25: 13-16.
1024. Modawi RS, Browder LE & Heyne EG 1985 Use of infection type data to identify genes for low reaction to *Puccinia recondita* in several winter wheat cultivars. Crop Science 25: 9-13.
1025. Molnar-Lang M, Linc G & Sutka J 1996 Transfer of the recessive crossability allele *kr1* from Chinese Spring into the winter wheat Martonvasari 9. Euphytica 90: 301-305.
1026. Montebove L, De Pace C, Jan CC, Scarascia Mugnozza GT & Qualset CO 1987 Chromosomal location of isozyme and seed storage protein genes in *Dasypyrum villosum* (L.) Candargy. Theoretical and Applied Genetics 73: 836-845.
1027. Moonen JHE & Zeven AC 1984 SDS-PAGE of the high-molecular-weight subunits of wheat glutenin and the characterization of 1R(1B) substitution and 1BL/1RS translocation lines. Euphytica 33: 3-8.
1028. Moonen JHE, Scheepstra A & Graveland A 1985 Biochemical properties of some high-molecular-weight subunits of wheat glutenin. Journal of Cereal Science 3: 17-27.
1029. Moore K 1969 The genetical control of the grass-dwarf phenotype in *Triticum aestivum* L. Euphytica 18: 190-203.
1030. Morgan JM 1991 A gene controlling differences in osmoregulation in wheat. Australian Journal of Plant Physiology 18: 249-257.
1031. Morgan JM & Tan MK 1996 Chromosomal location of a wheat osmoregulation gene using RFLP analysis. Australian Journal of Plant Physiology 23: 803-806.
1032. Morgunov AI, Rogers WJ, Sayers EJ & Metakovsky EV 1990 The high-molecular-weight glutenin subunit composition of Soviet varieties. Euphytica 51: 41-52.
1033. Mori N, Liu Y-G & Tsunewaki K 1995 Wheat phylogeny determined by RFLP analysis of nuclear DNA. II. Wild tetraploid wheats. Theoretical and Applied Genetics 90: 129-134.

1034. Mori N, Moriguchi T & Nakamura C 1997 RFLP analysis of nuclear DNA for study of phylogeny and domestication of tetraploid wheat. *Genes and Genetic Systems* 72: 153-161.
1035. Giroux MJ & Morris CJ 1997 Personal communication.
1036. Morris CF, Anderberg RJ, Goldmark PJ & Walker-Simmons M 1991 Molecular cloning and expression of abscisic acid-response genes in embryos of dormant wheat seeds. *Plant Physiology* 95: 814-821.
1037. Morris LD, Raupp WJ & Gill BS 1990 Isolation of  $H^t$  genome chromosome additions from polyploid *Elymus trachycaulus* ( $S^tS^tH^tH^t$ ) into common wheat (*Triticum aestivum*). *Genome* 33: 16-22.
1038. Morris R & Sears ER 1967 The cytogenetics of wheat and its relatives. *In*, Wheat and Wheat Improvement. American Society of Agronomy, (Quisenberry KS & Reitz LP eds.): 19-87.
1039. Morris R, Schmidt JW & Johnson VA 1970 Association of homoeologous group 6 aneuploids with leaf necrosis in hexaploid wheat varieties. *Wheat Information Service* 30: 6-7.
1040. Morris R, Schmidt JW & Johnson VA 1972 Chromosomal location of a dwarfing gene in a Tom Thumb wheat derivative by monosomic analysis. *Crop Science* 12: 247-249.
1041. Morrison JW 1953 Chromosome behaviour in wheat monosomics. *Heredity* 7: 203-217.
1042. Mukai Y, Endo T & Gill BS 1992 Physical mapping of the 18S-5.8S-26S multigene family in common wheat: identification of a new locus. *Chromosoma* 100: 71-78.
1043. Mukai Y, Endo TE & Gill BS 1990 Physical mapping of the 5S rRNA multigene family in common wheat. *Journal of Heredity* 81: 290-295.
1044. Multani DS, Dhaliwal HS, Sharma SK & Gill KS 1989 Inheritance of isoturon tolerance in *durum* wheat transferred from *Triticum monococcum*. *Plant Breeding* 102: 166-168.
1045. Mundy J & Chua NH 1988 Abscisic acid and water stress induce the expression of a novel rice gene. *EMBO Journal* 7: 2279-2286.
1046. Murai K 1997 Genetic analysis of fertility restoration against photoperiod-sensitive cytoplasmic male sterility in *Triticum aestivum* cv. Norin 61. *Plant Breeding* 116: 592-594.
1047. Murai K & Tsunewaki K 1993 Photoperiod-sensitive cytoplasmic male sterility in wheat with *Aegilops crassa* cytoplasm. *Euphytica* 67: 41-48.
1048. Muramatsu M 1963 Dosage effect of the *spelta* gene *q* of hexaploid wheat. *Genetics* 48: 469-482.
1049. Muramatsu M 1986 The *vulgare* super gene, *Q*: its universality in durum wheat and its phenotypic effects in tetraploid and hexaploid wheats. *Canadian Journal of Genetics and Cytology* 28: 30-41.
1050. Murray TD, de la Pena RC, Yildirim A & Jones SS 1994 A new source of resistance to *Pseudocercospora herpotrichoides*, cause of eyespot disease of wheat, located on chromosome 4V of *Dasypyrum villosum*. *Plant Breeding* 113: 281-286.
1051. Muthukrishnan S, Gill BS, Swegle M & Ram Chandra G 1984 Structural genes for  $\alpha$ -amylases are located on barley chromosomes 1 and 6. *Journal of Biological Chemistry* 259: 13637-13639.
1052. Naik S, Gill KS, Prakasa VS, Gupta VS, Tamhankar SA, Pujar S, Gill BS & Ranjekar PK 1998 Identification of a STS marker linked to the *Aegilops speltoides*-derived leaf rust resistance gene *Lr28* in wheat. *Theoretical and Applied Genetics* 97: 535-540.
1053. Nakamura T, Yamamori M, Hirano H & Hidaka S 1993 Identification of three *Wx* proteins in wheat (*Triticum aestivum* L.). *Biochemical Genetics* 31: 75-86.

1054. Nakamura T, Yamamori M, Hirano H & Hidaka S 1993 Decrease of waxy (Wx) protein in two common wheat cultivars with low amylase content. *Journal of Plant Breeding* 111: 99-105.
1055. Neatby KW 1933 A chlorophyll mutation in wheat. *Journal of Heredity* 24: 159-162.
1056. Nielsen CH 1982 Heredity of *Heterodera avenae* resistance originating from two barley cultivars and one spring wheat cultivar. *EPPO Bulletin* 12: 457-461.
1057. Nelson JC 1996 Personal communication.
1058. Nelson JC, Singh RP, Autrique JE & Sorrells ME 1997 Mapping genes conferring and suppressing leaf rust resistance in wheat. *Crop Science* 37: 1928-1935.
1059. Nelson JC, Sorrells ME, Van Deynze AE, Lu YH, Atkinson MD, Bernard M, Leroy P, Faris JD & Anderson JA 1995 Molecular mapping of wheat: Major genes and rearrangements in homoeologous groups 4, 5 and 7. *Genetics* 141: 721-731.
1060. Nelson JC, Van Deynze AE, Autrique E, Sorrells ME, Lu YH, Merlino M, Atkinson M & Leroy P 1995 Molecular mapping of wheat. Homoeologous group 2. *Genome* 38: 516-524.
1061. Nelson JC, Van Deynze AE, Autrique E, Sorrells ME, Lu YH, Negre S, Bernard M & Leroy P 1995 Molecular mapping of wheat. Homoeologous group 3. *Genome* 38: 525-533.
1062. Nelson W, Dubin HJ & Rajaram S 1980 Norin 10 dwarfing genes present in lines used in the CIMMYT wheat breeding programme. *Cereal Research Communications* 8: 573-574.
1063. Netsvetaev VP 1978 Mapping of loci *Hrd* in chromosome 5 of barley with the help of reciprocal translocations. "Biologicheskije Osmovy Ratseonalnogo Ispolzovaniya Jivotnogo I Rastitelnogo Myra" USSR. Riga "Zinatne" 145-146.
1064. Netting AG & Barber HN 1968 Chemical genetics of beta-diketone formation in wheat. *Proceedings of the 3rd International Wheat Genetics Symposium, Australian Academy of Science, Canberra* (Findlay KW & Shepherd KW eds.): 316-321.
1065. Neuman PR & Hart GE 1983 Genetic control of shikimate dehydrogenase in hexaploid wheat. *Biochemical Genetics* 21: 963-968.
1066. Neuman PR & Hart GE 1986 Genetic control of the mitochondrial form of superoxide dismutase in hexaploid wheat. *Biochemical Genetics* 24: 435-446.
1067. Newton AC, Johnson R & Caten CE 1985 Virulence analysis of local populations of *Puccinia striiformis* f. sp. *tritici*. *Cereal Rusts Bulletin* 13: 11-15.
1068. Ng PKW & Bushuk W 1989 Concerning the nomenclature of high molecular weight glutenin subunits. *Journal of Cereal Science* 9: 53-60.
1069. Ng PKW, Pogna NE, Mellini F & Bushuk W 1989 *Glu-1* allele compositions of the wheat cultivars registered in Canada. *Journal of Genetics and Breeding* 43: 53-59.
1070. Nicoloff H, Anastassoa-Kristeva M, Kunzel G & Rieger R 1977 The behaviour of nucleolus organizers in structurally changed karyotypes of barley. *Chromosoma* 62: 103-109.
1071. Nielsen G & Frydenberg O 1971 Chromosome localization of the esterase loci *Est 1* and *Est 2* in barley by means of trisomics. *Hereditas* 67: 152-154.
1072. Nielsen G, Johansen H & Jenson J 1983 Localisation on barley chromosome 5 of the locus *Pgd2* coding for phosphogluconate dehydrogenase. *Barley Genetics Newsletter* 13: 57.
1073. Nielsen J 1977 Inheritance of virulence of loose smut of wheat, *Ustilago tritici* on the differential cultivars Renfrew, Florence x Aurore, Kota and Little Club. *Canadian Journal of Botany* 55: 260-263.
1074. Nielsen J 1982 Inheritance of virulence of *Ustilago tritici* on the differential cultivars Carma, Red Bobs, and a derivative of the cross Thatcher x Regent. *Canadian Journal of Botany* 60: 1191-1193.

1075. Nieto-Taladriz MT & Carrillo JM 1996 Complexity of the *Gli-A3* locus in bread wheat. *Plant Breeding* 115: 192-194.
1076. Nieto-Taladriz MT, Branlard G & Dardevet M 1994 Polymorphism of omega-gliadins in durum wheat as revealed by the two-step APAGE/SDS-PAGE technique. *Theoretical and Applied Genetics* 87: 1001-1005.
1077. Nieto-Taladriz MT, Pernas M, Salcedo G & Carrillo JM 1996 Linkage mapping of '25-kDa globulin' genes on homoeologous group-1 chromosomes of bread and durum wheat. *Theoretical and Applied Genetics* 93: 780-787.
1078. Nieves R 1939 (Inheritance of grain colour in wheat). *Journal of Agr. Vet., Buenos Aires*: 129-154. *Cited Plant Breeding Abstracts* 11: 938, p. 279.
1079. Niewoehner AS & Leath S 1998 Virulence of *Blumeria graminis* f. sp. *tritici* on winter wheat in the eastern United States. *Plant Disease* 82: 64-68.
1080. Nishikawa K 1967 Identification and distribution of necrosis and chlorosis genes in tetraploid wheat. *Seiken Zihō* 19: 37-42.
1081. Nishikawa K 1991 Chromosome mapping by use of aneuploids in wheat. *Wheat Information Service* 72: 60-63.
1082. Nishikawa K & Nobuhara M 1971 Genetic studies of α-amylase isozymes in wheat I. Location of genes and variation in tetra- and hexaploid wheat. *Japanese Journal of Genetics* 46: 345-353.
1083. Nishikawa K, Bon T & Furuta Y 1993 Telocentric mapping of α-amylase loci in wheat. *Wheat Information Service* 77: 39-45.
1084. Nishikawa K, Furuta Y, Hina Y & Yamada T 1981 Genetic studies of α-amylase isozymes in wheat. IV. Genetic analyses in hexaploid wheat. *Japanese Journal of Genetics* 56: 385-395.
1085. Nishikawa K, Mori T, Takanmi N & Furuta Y 1974 Mapping of progressive necrosis genes *Ne1* and *Ne2* of common wheat by the telocentric method. *Japanese Journal of Breeding* 24: 277-281.
1086. Nkongolo KK, Quick JS, Limin AE & Fowler DB 1991 Sources and inheritance of resistance to Russian wheat aphid in *Triticum* species, amphiploids and *Triticum tauschii*. *Canadian Journal of Plant Science* 71: 703-708.
1087. Noble WB & Suneson CA 1943 Differentiation of the two genetic factors for resistance to Hessian fly in Dawson wheat. *Journal of Agricultural Research* 67: 27-32.
1088. Nyquist WE 1963 Inheritance of powdery mildew resistance in hybrids involving a common wheat strain derived from *Triticum timopheevi*. *Crop Science* 3: 40-43.
1089. Obanni M, Ohm HW, Foster JE & Patterson FL 1989 Genetics of resistance of PI 422297 durum wheat to the Hessian fly. *Crop Science* 29: 249-252.
1090. Obanni M, Patterson FL, Foster JE & Ohm HW 1988 Genetic analyses of resistance of durum wheat PI 428435 to the Hessian fly. *Crop Science* 28: 223-226.
1091. Odintsova IG & Peusha KhO 1982 (Inheritance of resistance to brown rust in bread wheat varieties). *Trudy po Prikladnoi Botanike, Genetikei Selektivii* 71: 41-47. *Cited Plant Breeding Abstracts* 55: 7658, p.841.
1092. Oellermann CM, Patterson FL & Gallun RL 1983 Inheritance of resistance in Luso wheat to Hessian fly. *Crop Science* 23: 221-224.
1093. Oetmann A & Zeller FJ 1989 Distribution and origin of hybrid necrosis genes in German winter wheat (*Triticum aestivum* L.) cultivars. *Plant Breeding* 103: 207-211.
1094. Ogihara Y, Shimizu H, Hasegawa K, Tsujimoto H, & Sasakuma T 1994 Chromosome assignment of four photosynthetically-related genes and their variability in wheat species.



- Theoretical and Applied Genetics 88: 81-88.
1095. Ohm HW 1988a Personal communication.
1096. Ohm HW 1988b Personal communication
1097. Ohm HW, Ratcliff RH, Patterson FL & Cambron S 1997 Resistance to Hessian fly conditioned by genes *H19* and proposed gene *H27* of durum wheat line PI422297. *Crop Science* 37: 113-115.
1098. Ohm HW, Sharma HC, Patterson FL, Ratcliffe RH & Obanni M 1995 Linkage relationships among genes on wheat chromosome 5A that condition resistance to Hessian fly. *Crop Science* 35: 1603-1607.
1099. Olive MR, Ellis RJ & Schuch WW 1989 Isolation and nucleotide sequences of cDNA clones encoding ADP-glucose pyrophosphate polypeptides from wheat leaf and endosperm. *Plant Molecular Biology* 12: 525-538.
1100. Orth RA & Bushuk W 1974 Studies on glutenin VI. Chromosomal location of genes coding for subunits of glutenin of common wheat. *Cereal Chemistry* 51: 118-126.
1101. Paderina EV, Hsam SLK & Zeller FJ 1995 Identification of powdery mildew resistance genes in common wheat (*Triticum aestivum* L. em Thell.) VII. Cultivars grown in Western Siberia. *Hereditas* 123: 103-107.
1102. Pan CL 1940 A genetic study of mature plant resistance in spring wheat to black stem rust, *Puccinia graminis tritici* and reaction to black chaff, *Bacterium translucens* var. *undulosum*. *Journal of the American Society of Agronomy* 32: 107-115.
1103. Panin VM & Netsvetaev VP 1986 (Genetic control of gliadins and some morphological characters of spike in durum winter wheats.). [In Russian]. 'Nauchno-Tekhnicheski Bull. VSG I. Odessa 2: 31-36.
1104. Patterson FL Personal communication.
1105. Patterson FL & Gallun RL 1977 Linkage in wheat of the *H3* and *H6* genetic factors for resistance to Hessian fly. *Journal of Heredity* 68: 293-296.
1106. Patterson FL, Foster JE & Ohm HW 1988 Gene *H16* in wheat for resistance to Hessian fly. *Crop Science* 28: 652-654.
1107. Patterson FL, Maas FB, Foster JE, Ratcliffe RH, Cambron S, Safranski G, Taylor PL & Ohm HW 1994 Registration of eight Hessian fly resistance common winter wheat germplasm lines (Carol, Erin, Flynn, Iris, Joy, Karen, Lola and Molly). *Crop Science* 34: 315-316.
1108. Patterson FL, Ohm HW, Shaner GE, Finney RE, Gallun RL, Roberts JJ & Foster JE 1985 Registration of 'Fillmore' wheat. *Crop Science* 25: 368-369.
1109. Patterson FL, Roberts JJ, Finney RE, Shaner GE, Gallun RL & Ohm HW 1975 Registration of 'Oasis' wheat. *Crop Science* 15: 736-737.
1110. Patterson FL, Shaner GE, Huber DM, Ohm HW, Finney RE, Gallun RL & Roberts JJ 1979 Registration of 'Sullivan' wheat. *Crop Science* 19: 297.
1111. Paull J 1990 Personal communication.
1112. Paull JG, Pallotta MA, Langridge P & The TT 1994 RFLP markers associated with *Sr22* and recombination between chromosome 7A of bread wheat and the diploid species *Triticum boeoticum*. *Theoretical and Applied Genetics* 89: 1039-1045.
1113. Paull JG, Rathjen AJ & Cartwright B 1991 Major gene control of tolerance of bread wheat (*Triticum aestivum* L.) to high concentrations of soil boron. *Euphytica* 55: 217-228.
1114. Payne PI 1989 Personal communication.
1115. Payne PI Personal communication.
1116. Payne PI & Lawrence GJ 1983 Catalogue of alleles for the complex gene loci, *Glu-A1*, *Glu-*

- B1*, and *Glu-D1* which code for high molecular-weight subunits of glutenin in hexaploid wheat. Cereal Research Communications 11: 29-35.
1117. Payne PI, Holt LM & Jackson EA 1984 Genetical analysis of wheat endosperm storage proteins. Proceedings of the 2nd International Workshop on Gluten Proteins Wageningen, The Netherlands: 111-120.
1118. Payne PI, Holt LM & Law CN 1981 Structural and genetical studies on the high-molecular-weight subunits of wheat glutenin. Theoretical and Applied Genetics 60: 229-236.
1119. Payne PI, Holt LM & Lister P 1988 *Gli-A3* and *Gli-B3*, two newly designated loci coding for some omega-type gliadins and D subunits of glutenins. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 999-1002.
1120. Payne PI, Holt LM, Hutchinson J & Bennett MD 1984 Development and characterization of a line of bread wheat, *Triticum aestivum*, which lacks the short arm satellite 1B and the *Gli-B1* locus. Theoretical and Applied Genetics 68: 327-334.
1121. Payne PI, Holt LM, Johnson R & Snape JW 1986 Linkage mapping of four gene loci, *Glu-B1*, *Gli-B1*, *Rg1* and *Yr10* on chromosome 1B of bread wheat. Genetica Agraria 40: 231-242.
1122. Payne PI, Holt LM, Lawrence GJ & Law CN 1982 The genetics of gliadin and glutenin, the major storage proteins of the wheat endosperm. Qualitas Plantarum; Plant Foods for Human Nutrition 31: 229-241.
1123. Payne PI, Holt LM, Reader SM & Miller TE 1987 Chromosomal location of genes coding for endosperm proteins of *Hordeum chilense*, determined by two dimensional electrophoresis of wheat-*H. chilense* chromosome addition lines. Biochemical Genetics 25: 53-65.
1124. Payne PI, Holt LM, Thompson RD, Bartels D, Harberd NP, Harris PA & Law CN 1983 The high-molecular-weight subunits of glutenin: classical genetics, molecular genetics and the relationship of bread-making quality. Proceedings of the 6th International Wheat Genetics Symposium Kyoto, Japan (Sakamoto S. ed.): 827-834.
1125. Payne PI, Holt LM, Worland AJ & Law CN 1982 Structural and genetical studies on the high-molecular-weight subunits of wheat glutenin III. Telocentric mapping of the subunit genes on the long arms of the homoeologous group 1 chromosomes. Theoretical and Applied Genetics 63: 129-138.
1126. Payne PI, Jackson EA, Holt LM & Law CN 1984 Genetic linkage between endosperm storage protein genes on each of the short arms of chromosomes 1A and 1B of wheat. Theoretical and Applied Genetics 67: 235-243.
1127. Pedersen S, Due Tuveesson IK & Andersen SB 1990 Polymorphism for aconitase and glucosephosphate isomerase isozymes in hexaploid wheat. Hereditas 113: 1-6.
1128. Penner GA, Clarke K, Bezte LJ & Leisle D 1995 Identification of RAPD markers linked to a gene governing cadmium uptake in durum wheat. Genome 38: 543-547.
1129. Pepe JF & Heiner RE 1975 Influence of two different dwarfing sources on yield and protein percentage in semidwarf wheats. Crop Science 15: 637-639.
1130. Petchey EM, Koebner RMD & Gale MD 1989 Genetic characterisation of a homoeoallelic series of grain esterase loci, *Est-6* in wheat. Theoretical and Applied Genetics 79: 294-296.
1131. Pettigrew R & Driscoll CJ 1970 Cytogenetic studies of a chlorophyll mutant of hexaploid wheat. Heredity 25: 650-655.
1132. Pettigrew R & Driscoll CJ Unpublished.
1133. Pettigrew R, Driscoll CJ & Rienits KG 1969 A spontaneous chlorophyll mutant in hexaploid wheat. Heredity 24: 481-487.
1134. Peusha H, Hsam SLK & Zeller FS 1995 Chromosomal location of powdery mildew

- resistance genes in common wheat (*Triticum aestivum* L. em Thell.) 3. Gene *Pm22* in cultivar Virest. *Euphytica* 91: 149-152.
1135. Pfeffer A & Zeller FJ 1987 Genotypes of hybrid necrosis in 25 spring varieties of common wheat (*Triticum aestivum* L.). *Plant Breeding* 99: 83-84.
1136. Philiptschenko J 1930 Again on the question of genes and the development of the form of ear in wheat. *Bulletin of the Bureau of Genetics* 8: 1-18. *Cited Plant Breeding Abstracts* 1: 163, p.16.
1137. Piech J 1969 Genetic analysis of photoperiodic insensitivity in wheat. *Genetica Polonica* 10: 99-100.
1138. Piech J & Evans LE 1979 Monosomic analysis of purple grain colour in hexaploid wheat. *Zeitschrift fur Pflanzenzuchtung* 82: 212-217.
1139. Pietro ME & Hart GE 1985 The genetic control of triosephosphate isomerase of hexaploid wheat and other Triticeae species. *Genetical Research, Cambridge* 45: 127-142.
1140. Pietro ME, Tuleen NA & Hart GE 1988 Development of wheat-*Triticum searsii* disomic chromosome addition lines. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.):* 409-414.
1141. Pirasteh B & Welsh JR 1975 Monosomic analysis of photoperiod response in wheat. *Crop Science* 15: 503-505.
1142. Plaschke J, Borner A, Xie DX, Koebner RMD, Schlegel R & Gale MD 1993 RFLP mapping of genes affecting plant height and growth habit in rye. *Theoretical Applied Genetics* 85: 1049-1054.
1143. Plessers AG 1954 Genetic studies of stem rust reaction in crosses of Lee wheat with Chinese monosomic testers. *Agricultural Institute Review* 9: 37.
1144. Pogna JC, Autran C, Mellini F, Lafiandra D & Feillet P 1990 Chromosome 1B encoded gliadins and glutenins subunits in durum wheat: genetics and relationship to gluten strength. *Journal of Cereal Science* 11: 15-34.
1145. Pogna NE, Mellini F & Dalbelin Peruffo A 1987 Glutenin subunits of Italian common wheats of good bread making quality and comparative effects of high molecular weight glutenin subunits 2 and 5, 10 and 12 on flour quality. *In, Hard Wheat: Agronomic, Technological, Biochemical and Genetic Aspects. Commission of the European Communities, Brussels. (Borghi B ed.):* 53-69.
1146. Pogna NE, Mellini F, Beretta A & Dalbelin Deruffo A 1989 The high-molecular-weight glutenin subunits of common wheat cultivars grown in Italy. *Journal of Genetics and Breeding* 43: 17-24.
1147. Pogna NE, Metakovsky EV, Redaelli R, Raineri F & Dachkevitch T 1993 Recombination mapping of *Gli-5*, a new gliadin-coding locus on chromosomes 1A and 1B in common wheat. *Theoretical and Applied Genetics* 87: 113-121.
1148. Pokhriyal SC & Kohli SP 1962 Inheritance of field reaction to brown rust and other characters in inter-varietal crosses of *Triticum aestivum* L. *Indian Journal of Genetics* 22: 173-180.
1149. Poperelya FA & Sozinov AA 1977 Electrophoresis of gliadin as a method for identification of wheats in which B-chromosome 1 is completely or partially replaced by R-chromosome 1. *Doklady VASKLNIL* 2: 2-4 [English translation].
1150. Porter DR 1993 Personal communication.
1151. Porter DR, Webster JA & Friebe B 1993 Inheritance of greenbug biotype G resistance in wheat. *Crop Science* 34: 625-628.
1152. Porter DR, Webster JA, Burton RL, Puterka GJ & Smith EL 1991 New sources of resistance

- to greenbug in wheat. *Crop Science* 31: 1502-1504.
1153. Powling A, Islam AKMR & Shepherd KW 1981 Isozymes in wheat-barley hybrid derivative lines. *Biochemical Genetics* 19: 237-254.
1154. Prabhakara Rao MV 1996 Close linkage of the *Agropyron elongatum* gene *Sr26* for stem rust resistance to the centomere of wheat chromosome 6A. *Wheat Information Service* 82: 8-10.
1155. Pratchett N & Laurie DA 1994 Genetic map location of the barley developmental mutant *liguleless* in relation to RFLP markers. *Hereditas* 120: 135-139.
1156. Pretorius ZA, Wilcoxson RD, Long DL & Schafer JF 1984 Detecting leaf rust resistance gene *Lr13* in seedlings. *Plant Disease* 68: 585-586.
1157. Priestley RH 1978 Detection of increased virulence in populations of wheat yellow rust. *In*, *Plant Disease Epidemiology*. Blackwell Scientific Publishers, Oxford. (Scott PR & Bainbridge A eds.): 63-70.
1158. Priestley RH & Byford P 1979 Yellow rust of wheat. UK Cereal Pathogen Virulence Survey. 1978 Annual Report, National Institute of Agricultural Botany: 14-23.
1159. Priestley RH, Bayles RA & Crofts J 1982 Yellow rust of wheat. UK Cereal Pathogen Virulence Survey. 1981 Annual Report, National Institute of Agricultural Botany: 18-28.
1160. Priestley RH, Bayles RA & Ryall J 1984 Identification of specific resistances against *Puccinia striiformis* (yellow rust) in winter wheat varieties. Use of cluster analysis. *Journal of the National Institute of Agricultural Botany* 16: 477-485.
1161. Prins R & Marais GF 1999 A genetic study of the gametocidal effect of the *Lr19* translocation of common wheat. *South African Journal of Plant and Soil* 16(1): 10-14
1162. Prins R, Marais GF, Janse BJH, Pretorius ZA & Marais AS 1996 A physical map of the *Thinopyrum*- derived *Lr19* translocation. *Genome* 39: 1013-1019.
1163. Prins R, Marais GF, Pretorius ZA, Janse BJH & Marais AS 1997 A study of modified forms of the *Lr19* translocation of common wheat. *Theoretical and Applied Genetics* 95: 424-430.
1164. Procnier JD, Knox RE, Bernier AM, Gray MA & Howes NK 1997 DNA markers linked to a T10 loose smut resistance gene in wheat (*Triticum aestivum* L.). *Genome* 40: 176-179.
1165. Procnier JD, Townley-Smith TF, Fox S, Prashar S, Gray M, Kim WK, Czarnecki E & Dyck PL 1995 PCR-based RAPD/DGGE markers linked to leaf rust resistance genes *Lr29* and *Lr25* in wheat (*Triticum aestivum* L.). *Journal of Genetics and Breeding* 49: 97-92.
1166. Pugsley AT 1949 The inheritance of resistance to three races of *Tilletia foetida* and two races of *T. caries* in a cross between White Federation 38 and Selection 1403 wheats. *Journal of Genetics* 49: 177-182.
1167. Pugsley AT 1956 The gene *SrKal* in relation to the resistance of wheat to *Puccinia graminis tritici*. *Empire Journal of Experimental Agriculture* 24: 178-184.
1168. Pugsley AT 1961 Additional resistance in *Triticum vulgare* to *Erysiphe graminis tritici*. *Australian Journal of Biological Sciences* 14: 70-75.
1169. Pugsley AT 1965 Inheritance of a correlated day-length response in spring wheat. *Nature* 207: 108.
1170. Pugsley AT 1966 The photoperiodic sensitivity of some spring wheats with special reference to the variety Thatcher. *Australian Journal of Agricultural Research* 17: 591-599.
1171. Pugsley AT 1971 A genetic analysis of the spring-winter habit of growth in wheat. *Australian Journal of Agricultural Research* 22: 21-31.
1172. Pugsley AT 1972 Additional genes inhibiting winter habit in wheat. *Euphytica* 21: 547-552.
1173. Pugsley AT 1973 Control of developmental patterns in wheat through breeding.

- Proceedings of the 4th International Wheat Genetics Symposium, University of Missouri, Columbia (Sears ER & Sears LMS eds.): 857-859.
1174. Pugsley AT 1983 The impact of plant physiology on Australian wheat breeding. *Euphytica* 32: 743-748.
1175. Pugsley AT & Carter MV 1953 Resistance of twelve varieties of *Triticum vulgare* to *Erysiphe graminis tritici*. *Australian Journal of Biological Sciences* 6: 335-346.
1176. Qi LL, Cao MS, Chen PD, Li EL & Liu DJ 1996 Identification, mapping, and application of polymorphic DNA associated with resistance gene *Pm21* of wheat. *Genome* 39: 191-197.
1177. Qi LL, Chen, PD, Liu DJ, Zhou B, Zhang SZ, Sheng BQ, Xiang QJ, Duang XY & Zhou YL 1995 The gene *Pm21* - a new source of resistance to wheat powdery mildew. *Acta Agriculture Sinica* 21: 257-261.
1178. Quail P Personal communication.
1179. Quarrie SA, Galiba G, Sutka J, Snape JW, Semikhododski A, Steed A, Gulli M & Calestani C 1994 Association of a major vernalisation gene with stress-induced abscisic acid production. Proceedings of COST 814 Workshop, Crop Adaptation to Cool Climates, Hamburg, October 1994.
1180. Quarrie SA, Gulli M, Calestani C, Steed A & Marmioli N 1994 Location of a gene regulating drought-induced abscisic acid production on the long arm of chromosome 5A of wheat. *Theoretical and Applied Genetics* 89: 794-800.
1181. Quarrie SA, Steed A, Semikhodski A, Lebreton C, Calestani C, Clarkson DA, Tuberosa R, Sanguineti MC, Melchiorre R & Prioul J-L 1995 Identification of quantitative trait loci regulating water and nitrogen-use efficiency in wheat. *In: Proceedings 2nd STRESSNET Conference.* (Leigh RA, Blake-Kalff MMAM eds.). European Commission. Ref F.II.3-MOR/0001, Brussels: 175-180.
1182. Quatrano RS, Litts J, Colwell G, Chakerian R & Hopkins R 1986 Regulation of gene expression in wheat embryos by abscisic acid; characterization of the cDNA clones for the Em and putative globulin proteins and localization of the lectin wheat germ agglutinin. *In, Molecular Biology of Seed Storage Proteins and American Society of Plant Physiology* (Shsnonn L & Chrispeels M eds.) 127-136.
1183. Quick JS, Souza E & Sunderman DW 1993 Registration of 'Fairview' wheat. *Crop Science* 33: 878.
1184. Rahman S, Abrahams S, Abbott D, Mukai Y, Samuel M, Morell MK & Appels R 1997 A complex arrangement of genes at a starch branching enzyme I locus in the D-genome of wheat. *Genome* 40: 465-474.
1185. Rahman S, Jolly CJ, Skerritt JH & Walloscheck A 1994 Cloning of a wheat 15-KDa grain softness protein (GSP) - GSP is a mixture of puroindoline-like polypeptides. *European Journal of Biochemistry* 223: 917-925.
1186. Raikhel NV & Wilkins TA 1987 Isolation and characterization of a cDNA clone encoding wheat germ agglutinin. *Proceedings of the National Academy of Sciences, USA* 84: 6745-6749.
1187. Raines CA, Lloyd JC, Longstaff M, Bradley D & Dyer TA 1988 Chloroplast fructose-1,6-bisphosphatase: the product of a mosaic gene. *Nucleic Acids Research* 18: 7931-7942.
1188. Raines CA, Lloyd JC, Willingham NM, Potts S & Dyer TA 1992 cDNA and gene sequences of wheat chloroplast sedoheptulase-1,7-bisphosphatase reveal homology with fructose-1,6-bisphosphatases. *European Journal of Biochemistry* 205: 1053-1059.
1189. Raines CA, Longstaff M, Lloyd JC & Dyer TA 1989 Complete coding sequence of wheat phosphoribulokinase: Developmental and light-dependent expression of the mRNA.

- Molecular and General Genetics 218: 423-430.
1190. Randhawa AS, Dhaliwal HS, Sharma SK & Multani DS 1987 Inheritance of 2,4-D tolerance in wheat. *Current Science, India* 56: 191-192. *Cited Plant Breeding Abstracts* 57: 7823, p.819.
1191. Rao IN & Rao MVP 1980 Evidence for duplicate genes for 6-phosphogluconate dehydrogenase in rye. *Genetical Research, Cambridge* 35: 309-312.
1192. Rao MVP 1972 Mapping of the compactum gene C on chromosome 2D of wheat. *Wheat Information Service* 35: 9.
1193. Rao MVP 1973 Mapping the gene *R1* for red seed colour on chromosome 3D of wheat. *Wheat Information Service* 36: 9.
1194. Rao MVP 1977 Mapping of the sphaerococcum gene 's' on chromosome 3D of wheat. *Cereal Research Communications* 5: 15-17.
1195. Rao MVP 1981 Telocentric mapping of the arm inhibitor gene *Hd* on chromosome 4B of common wheat. *Cereal Research Communications* 9: 335-337.
1196. Rao MVP 1983 Telocentric mapping of the squarehead (*vulgare*) gene *Q* on chromosome 5A of hexaploid wheat. *Wheat Information Service* 56: 12-13.
1197. Rao MVP, Suseelan KN & Bhatia CR 1990 Telocentric mapping of the alcohol dehydrogenase structural gene *Adh-B1* on chromosome 4B of hexaploid wheat. *Cereal Research Communications* 18: 217-221.
1198. Rasmussen SK, Welinder KG & Hejgaard J 1991 cDNA cloning, characterization and expression of an endosperm-specific barley peroxidase. *Plant Molecular Biology* 16: 317-327.
1199. Raupp J 1991 Personal communication.
1200. Raupp WJ, Gill BS, Wilson DL, Cox TS & Browder LE 1991 (Draft manuscript).
1201. Reader SM & Miller TE 1991 The introduction into bread wheat of a major gene for resistance to powdery mildew from wild emmer wheat. *Euphytica* 53: 57-60.
1202. Rebmann G, Hertig C, Bull J, Mauch F & Dudler R 1991 Cloning and sequencing of cDNA's encoding a pathogen-induced putative peroxidase of wheat (*Triticum aestivum* L.). *Plant Molecular Biology* 16: 329-331.
1203. Rebordinos L & Perez de la Vega M 1988 Gene duplication in the structural gene for a glutamate oxaloacetate transaminase zone (GOT1) in *Secale*. *Journal of Heredity* 79: 78-80.
1204. Rebordinos L & Perez de la Vega M 1989 Extent of genetic variability of endosperm esterases in *Triticum aestivum* L.  $2n=6x=42$ . *Theoretical and Applied Genetics* 78: 728-734.
1205. Redaelli R, Pogna NE, Dachkevitch T, Cacciatori P, Biancard AM & Metakovsky EV 1992 Inheritance studies of the 1AS/1DS chromosome translocation in the bread wheat variety 'Perzivan-1'. *Journal of Genetics and Breeding* 46: 253-262.
1206. Reddy P & Appels R 1989 A second locus for the 5S multigene family in *Secale* L.: sequence divergence in two lineages of the family. *Genome* 32: 456-467.
1207. Reikhel, NV & Wilkes TA 1987 Differentiation between homoeologous chromosomes 1A of wheat and 1A<sup>m</sup> of *Triticum monococcum* and its recognition by the wheat *Ph1* locus. *Proceedings of the National Academy of Sciences, USA* 92: 6745-6749.
1208. Ren SX, McIntosh RA & Lu ZJ 1997 Genetic suppression of the cereal rye-derived gene *Pm8* in wheat. *Euphytica* 93: 353-360.
1209. Ren SX, McIntosh RA, Sharp PJ & The TT 1996 A storage protein marker associated with the suppressor of *Pm8* for powdery mildew resistance in wheat. *Theoretical and Applied Genetics* 93: 1054-1060.

1210. Ren ZL & Lelley T 1988 Genetics of hybrid necrosis in rye. *Plant Breeding* 100: 173-180.
1211. Ren ZL & Lelley T 1990 Chromosomal localization of genes in the R genome causing hybrid necrosis in rye and triticale. *Genome* 33: 40-43.
1212. Richards R 1988 Personal communication.
1213. Riede CR & Anderson JA 1996 Linkage of RFLP markers to an aluminum tolerance gene in wheat. *Crop Science* 36: 905-909.
1214. Riede CR, Williams ND & Miller JD 1995 Development of monogenic lines with resistance to stem rust from wheat cultivar 'Waldron'. *Theoretical and Applied Genetics* 90: 1054-1168.
1215. Riede CR, Williams ND, Miller JD & Joppa LR 1995 Chromosomal location of genes for stem rust resistance derived from Waldron wheat. *Theoretical and Applied Genetics* 90: 1158-1163.
1216. Riley R & Chapman V 1967 The inheritance in wheat of crossability with rye. *Genetical Research, Cambridge* 9: 259-267.
1217. Riley R, Chapman V & Johnson R 1968 Introduction of yellow rust resistance of *Aegilops comosa* into wheat by genetically induced homoeologous recombination. *Nature* 217: 383-384.
1218. Riley R, Chapman V & Johnson R 1968 The incorporation of alien disease resistance in wheat by genetic interference with the regulation of meiotic chromosome synapsis. *Genetical Research, Cambridge* 12: 199-219.
1219. Rizvi SSA & Buchenau GW 1994 Tentative identification and verification of genes for leaf rust resistance in wheat cultivars of South Dakota. *Plant Disease* 78: 674-679.
1220. Robe P & Doussinault G 1995 Genetic analysis of powdery-mildew resistance of a winter-wheat line, RE714, and identification of a new specific-resistance gene. *Plant Breeding* 114: 387-391.
1221. Roberts DWA & Larson RI 1985 Vernalisation and photoperiod responses of selected chromosome substitution lines derived from 'Rescue', 'Cadet' and 'Cypress' wheats. *Canadian Journal of Genetics and Cytology* 27: 586-591.
1222. Roberts JJ & Gallun RL 1984 Chromosome location of the *H5* gene for resistance to the Hessian fly in wheat. *Journal of Heredity* 75: 147-148.
1223. Roberts JJ, Gallun RL, Patterson FL, Finney RE, Ohm HW & Shaner GE 1981 Registration of 'Downy' wheat. *Crop Science* 21: 350.
1224. Robertson LD & Curtis BC 1967 Monosomic analysis of fertility-restoration in common wheat (*Triticum aestivum* L.). *Crop Science* 7: 493-495.
1225. Roder MS, Korzun VN, Gill BS & Ganal MW 1998 The physical mapping of microsatellite markers in wheat. *Genome* 41: 278-283.
1226. Roder MS, Plaschke J, Konig SU, Borner A, Sorrells ME, Tanksley SD & Ganal MW 1995 Abundance, variability and chromosomal location of microsatellites in wheat. *Molecular and General Genetics* 246: 327-333.
1227. Rodriguez-Ouijano M & Carrillo JM 1996 Relationship between allelic variation of *Glu-1* and *Gli-1/Glu-3* prolamin loci and gluten strength in hexaploid wheat. *Euphytica* 91: 141-146.
1228. Rodriguez-Quijano M, Nieto-Taladriz MT & Carrillo JM 1996 Linkage mapping of prolamin and isozyme genes on the 1S<sup>1</sup> chromosome of *Aegilops longissima*. *Theoretical and Applied Genetics* 93: 295-299.
1229. Rodriguez-Quijano M, Vasquez JF & Carrillo JM 1990 Variation of high-molecular-weight glutenin subunits in Spanish landraces of *Triticum aestivum* ssp. *vulgare* and ssp. *spelta*. *Journal of Genetics and Breeding* 44: 121-126.

1230. Roelfs AP & McVey DV 1979 Low infection types produced by *Puccinia graminis* f. sp. *tritici* and wheat lines with designated genes for resistance. *Phytopathology* 69: 722-730.
1231. Rogers WJ, Miller TM, Payne PI, Seekings JA, Sayers EJ, Holt LM & Law CN 1997 Introduction to bread wheat (*Triticum aestivum* L.) and assessment for bread-making quality of alleles from *T. boeoticum* Boiss. Ssp. *thaoudar* at *Glu-A1* encoding two high-molecular subunits of glutenin. *Euphytica* 93: 19-29.
1232. Rogers WJ, Payne PI, Miller TE, Holt LM, Law CN, Sayers EJ & Seekings JA 1989 Introduction to hexaploid wheat and assessment for bread-making quality of a *Glu-A1* locus from *Triticum thaoudar* encoding two high-molecular-weight subunits of glutenin XII. Eucarpia Congression Science for Plant Breeding, Gottingen, Germany, Abstract No. 27-3:
1233. Rogers WJ, Payne PI, Seekings JA & Sayers EJ 1991 Effect on bread-making quality of x-type and y-type subunits of glutenin. *Journal of Cereal Science* 14: 209-221.
1234. Rognil OA, Devos KM, Chinoy CN, Harcourt RL, Atkinson MD & Gale MD 1992 RFLP mapping of rye chromosome 7R reveals a highly translocated chromosome relative to wheat. *Genome* 55: 1026-1031.
1235. Rohde CR, van Wagoner KH, Kronstad WE & Rubenthaler GL 1988 Registration of 'Oveson' wheat. *Crop Science* 28: 1033.
1236. Rohde W, Becker D & Salamini F 1988 Structural analysis of the waxy locus from *Hordeum vulgare*. *Nucleic Acids Research* 16: 7185-7186.
1237. Rohde W, Dorr S, Salamini F & Becker D 1991 Structure of a chalcone synthase genes from *Hordeum vulgare*. *Plant Molecular Biology* 16: 1103-1106.
1238. Rondon MR, Gough FJ & Williams ND 1966 Inheritance of stem rust resistance in *Triticum aestivum* ssp. *vulgare* 'Reliance' and P.I.94701 of *Triticum durum*. *Crop Science* 6: 177-179.
1239. Rouve S, Boeuf C, Zwickert-Menteur S, Gautier MF, Joudrier P, Bernard M & Jestin L 1996 Locating supplementary RFLP markers on barley chromosome 7 and synteny with homoeologous wheat group 5. *Plant Breeding* 115: 511-513.
1240. Rowland GG 1972 A cytogenetic study in hexaploid wheat of characters derived from *Aegilops squarrosa*. PhD Thesis, University of Manitoba, Winnipeg.
1241. Rowland GG & Kerber ER 1974 Telocentric mapping in hexaploid wheat of genes for leaf rust resistance and other characters derived from *Aegilops squarrosa*. *Canadian Journal of Genetics and Cytology* 16: 137-144.
1242. Ruiz M & Carrillo JM 1993 Linkage relationships between prolamin genes on chromosomes 1A and 1B of durum wheat. *Theoretical and Applied Genetics* 87: 353-360.
1243. Rybalka AI & Sozinov AA 1979 Mapping the locus of Gld 1B which controls the biosynthesis of reserve proteins in soft wheat. *Tsitologiyai Genetika* 13: 276-282.
1244. Sacco F, Tranquillo G, Gorgoschidse L & Suarez E 1991 Aminopeptidase B1:a centromere marker for chromosome 6B of wheat. *Genome* 35: 261-263.
1245. Sachs L 1953 The occurrence of hybrid semi-lethals and the cytology of *Triticum macha* and *T. vavilovi*. *Journal of Agricultural Science* 43: 204-213.
1246. Sadam M 1974 Inheritance of sensitivity to gibberellin and of semidwarfing in *Triticum turgidum* L. *durum* Desf. PhD Thesis, Washington State University, USA.
1247. Sadam M 1975 Genetics of semidwarfing. *Annual Wheat Newsletter* 21: 158-159.
1248. Saghai-Maroo MA, Soliman KM, Jorgensen RA & Allard RW 1984 Ribosomal DNA spacer-length polymorphisms in barley: Mendelian inheritance, chromosomal location, and population dynamics. *Proceedings of the National Academy of Sciences, USA* 81: 8014-8018.
1249. Saidi A & Quick JS 1994 Inheritance of Russian wheat aphid resistance in three winter



- wheats. Proceedings of the 6th Russian Wheat Aphid Conference, Fort Collins, Colorado, USA (Peairs FB, Kroening MK & Simmons CL eds.): 126-132.
1250. Saidi A & Quick JS Inheritance and allelic relationships among Russian wheat aphid resistance genes in winter wheat. *Crop Science* 36: 256-258.
1251. Salinas J & Benito C 1984 Phosphatase isozymes in rye. Characterisation, genetic control and chromosomal location. *Zeitschrift fur Pflanzenzuchtung* 93: 115-136.
1252. Salinas J & Benito C 1985 Chromosomal location of malate dehydrogenase structural genes in rye (*Secale cereale* L.). *Zeitschrift fur Pflanzenzuchtung* 94: 208-217.
1253. Salinas J & Benito C 1985 Chromosomal locations of phosphoglucomutase, phosphoglucose isomerase, and glutamate oxaloacetate transaminase structural genes in different rye cultivars. *Canadian Journal of Genetics and Cytology* 27: 105-113.
1254. Salinas J & Benito C 1985 Esterase isozymes in rye-characterisation, genetic control, and chromosomal location. *Theoretical and Applied Genetics* 71: 136-140.
1255. Samborski DJ 1973 Leaf rust of wheat in Canada in 1972. *Canadian Plant Disease Survey* 52: 168-170.
1256. Samborski DJ 1980 Occurrence and virulence of *Puccinia recondita* in Canada in 1979. *Canadian Journal of Plant Science* 2: 246-248.
1257. Samborski DJ & Dyck PL 1968 Inheritance of virulence in wheat leaf rust on the standard differential varieties. *Canadian Journal of Genetics and Cytology* 10: 24-32.
1258. Samborski DJ & Dyck PL 1982 Enhancement of resistance to *Puccinia recondita* by interactions of resistance genes in wheat. *Canadian Journal of Plant Pathology* 4: 152-156.
1259. Sanchez-Monge E & Villena LM 1951 (Smooth awned varieties among the Spanish wheats.). *An. Estac. Exp. Aula. Dei* 2: 210. *Cited Plant Breeding Abstracts* 21: 2552, p. 831.
1260. Sanchez-Monge R, Barbe D, Mendez E, Garcia-Olmedo F & Salcedo G 1986 Genes encoding - amylase inhibitors are located in the short arms of chromosomes 3B, 3D and 6D of wheat (*Triticum aestivum* L.). *Theoretical and Applied Genetics* 72: 108-113.
1261. Sanchez-Monge R, Delibes A, Hernandez-Lucas C, Carbonaro P & Garcia-Olmedo F 1979 Homoeologous chromosomal location of the genes encoding thionins in wheat and rye. *Theoretical and Applied Genetics* 54: 61-63.
1262. Sanchez-Monge R, Fernandez JA & Salcedo G 1987 Subunits of tetrameric  $\alpha$ -amylase inhibitors of *Hordeum chilense* are encoded by genes located in chromosomes 4H<sup>ch</sup> and 7H<sup>ch</sup>. *Theoretical and Applied Genetics* 74: 811-816.
1263. Sanghi AK & Baker EP 1972 Genetic bases for resistance in two common wheat cultivars to stem rust strains of unusual avirulence. *Proceedings of the Linnean Society of New South Wales* 97: 56-71.
1264. Sarkisyan NS & Petrosyan AS 1972 (Descriptions of *Triticum aestivum* and *T. compactum* wheat varieties according to their necrotic genes.). *Biol. Zhurnal. Armenii* 25: 65-71. *Cited Plant Breeding Abstracts* 43: 5714, p. 465.
1265. Sasaki M & Wada S 1966 Chromosomal location of genes for crossability with rye using chromosome substitution lines. *Japanese Journal of Breeding* 16 (Suppl. 2): 178-179.
1266. Sasakuma T & Izumi N 1983 Genetical analysis of dwarfism in common wheat. *Wheat Information Service* 56: 41-42.
1267. Sawhney RN & Luthra JK 1970 New resistance genes of wheat to Indian races of stripe rust (*Puccinia striiformis*). *SABRAO Newsletter, Mishima* 2: 155-156. *Cited Plant Breeding Abstracts* 41: 7312, p.935.
1268. Scarth R & Law CN 1983 The location of the photoperiod gene *Ppd2* and an additional genetic factor for ear-emergence time on chromosome 2B of wheat. *Heredity* 51: 607-619.

1269. Scarth R & Law CN 1984 The control of day-length response in wheat by the group 2 chromosomes. *Zeitschrift für Pflanzenzüchtung* 92: 140-150.
1270. Schachermayr GM, Feuillet C & Keller B 1997 Molecular markers for the detection of the wheat leaf rust resistance gene *Lr10* in diverse genetic backgrounds. *Molecular Breeding* 3: 65-74.
1271. Schachermayr GM, Messmer MM, Feuillet C, Winzeler H, Winzeler M & Keller B 1995 Identification of molecular markers linked to the *Agropyron elongatum*-derived leaf rust resistance gene *Lr24* in wheat. *Theoretical and Applied Genetics* 90: 982-990.
1272. Schachermayr R, Siedler H, Gale MD, Winzeler H, Winzeler M & Keller B 1994 Identification and localization of molecular markers linked to *Lr9* leaf rust resistance gene of wheat. *Theoretical and Applied Genetics* 88: 110-115.
1273. Schafer JF, Caldwell RM, Patterson FL, Compton LE, Gallun RL & Roberts JJ 1968 Arthur soft red winter wheat, a breakthrough to a new yield level. Research Program Report Purdue University Agricultural Experiment Station, Lafayette, Indiana 335: 4pp.
1274. Schaller CW & Briggs FN 1955 Linkage relationships of the Martin, Hussar, Turkey and Rio genes for bunt resistance in wheat. *Agronomy Journal* 47: 181-186.
1275. Schaller CW, Holton CS & Kendrick EL 1960 Inheritance of the second factor for resistance to bunt *Tilletia caries* and *T. foetida*, in the wheat variety Martin. *Agronomy Journal* 52: 280-285.
1276. Schlegel RT, Werner T & Hulgenhof E 1991 Confirmation of a 4BL.5RL wheat rye translocation line in wheat cultivar 'Viking' showing high copper efficiency. *Plant Breeding* 107: 226-234.
1277. Schmalz H 1958 (Investigations on the inheritance of the spring-winter type of winter hardiness, also of morphological characters and of physiological characters connected with yield of wheat.). *Kuhn-Archiv* 72: 435-437. *Cited Plant Breeding Abstracts* 30: 261, p. 62.
1278. Schmidt C-CH, Schubert V & Bluthner W-D 1993 Use of isozymes to characterize *Triticum aestivum*-*Aegilops markgrafii* addition lines. *Biochem Physiol Pflanzen* 188: 385-392.
1279. Schmidt JC & Seliger P 1982 Nachweis von multiplen formen der alkoholdehydrogenase in blattmaterial von *Triticum aestivum* L. "Carola". *Biochem Physiol Pflanzen* 177: 541-545.
1280. Schmidt JC, Seliger P & Schlegel R 1984 Isoenzyme als biochemische Markerfaktoren für Roggenchromosomen. *Biochem Physiol Pflanzen* 179: 197-210.
1281. Schmidt JW & Johnson VA 1963 A sphaerococcum-like tetraploid wheat. *Crop Science* 3: 98-99.
1282. Schmidt JW & Johnson VA 1966 Inheritance of the sphaerococcum effect in tetraploid wheat. *Wheat Information Service* 22: 5-6.
1283. Schmidt JW, Johnson VA, Mattern PJ, Dreier AF, McVey DV & Hatchett JH 1985 Registration of 'Siouxland' wheat. *Crop Science* 25: 1130-1131.
1284. Schmidt JW, Johnson VA, Nordquist PT, Mattern PJ, Dreier AF, McVey DV & Hatchett JH 1989 Registration of 'Cody' wheat. *Crop Science* 29: 490-491.
1285. Schmidt JW, Morris R & Johnson VA 1969 Monosomic analysis for bunt resistance in derivatives of Turkey and Oro wheats. *Crop Science* 9: 286-288.
1286. Schmidt JW, Weibel DE & Johnson VA 1963 Inheritance of an incompletely dominant character in common wheat simulating *Triticum sphaerococcum*. *Crop Science* 3: 261-264.
1287. Schneider DM, Heun M & Fischbeck G 1991 Inheritance of the powdery mildew resistance gene *Pm9* in relation to *Pm1* and *Pm2* of wheat. *Plant Breeding* 107: 161-164.
1288. Schroeder-Teeter S, Zematra RS, Schotzko DJ, Smith CM & Rafi M 1994 Monosomic analysis of Russian wheat aphid (*Diuraphis noxia*) resistance in *Triticum aestivum* line

- PI137739. *Euphytica* 74: 117-120.
1289. Scoles GJ 1985 A gene for hybrid necrosis in an inbred line of rye (*Secale cereale* L.). *Euphytica* 34: 207-211.
1290. Scoles GJ, Gill BS, Xin Z-Y, Clarke BC, McIntyre CL, Chapman C & Appels R 1988 Frequent duplication and deletion events in the 5SRNA genes and the associated spacer regions of the Triticeae. *Plant Systematics and Evolution* 160: 105-122.
1291. Sears ER 1944 Cytogenetic studies with polyploid species of wheat. II. Additional chromosome aberrations in *Triticum vulgare*. *Genetics* 29: 232-246.
1292. Sears ER 1947 The sphaerococcum gene in wheat. *Genetics* 32: 102-103.
1293. Sears ER 1954 The aneuploids of common wheat. *Missouri Agricultural Experiment Station Research Bulletin* 572: 59pp.
1294. Sears ER 1956 Neatby's virescent. *Wheat Information Service* 3: 5.
1295. Sears ER 1957 Effects of chromosome XII and XVI on the action of Neatby's virescent. *Wheat Information Service* 6: 1.
1296. Sears ER 1961 Identification of the wheat chromosome carrying leaf rust resistance from *Aegilops umbellulata*. *Wheat Information Service* 12: 12-13.
1297. Sears ER 1966 Chromosome mapping with the aid of telocentrics. *Proceedings of the 2nd International Wheat Genetics Symposium Lund, Sweden 1963* (MacKey J ed.): *Hereditas Supplement* 2: 370-381.
1298. Sears ER 1967 Induced transfer of hairy neck from rye to wheat. *Zeitschrift fur Pflanzenzuchtung* 57: 4-25.
1299. Sears ER 1972 Reduced proximal crossing-over in telocentric chromosomes of wheat. *Genetica Iberica* 24: 233-239.
1300. Sears ER 1973 *Agropyron*-wheat transfers induced by homoeologous pairing. *Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri, USA* (Sears ER & Sears LMS eds.): 191-199.
1301. Sears ER 1977 An induced mutant with homoeologous pairing in common wheat. *Canadian Journal of Genetics and Cytology* 19: 585-593.
1302. Sears ER 1982 A wheat mutant conditioning an intermediate level of homoeologous chromosome pairing. *Canadian Journal of Genetics and Cytology* 24: 715-719.
1303. Sears ER 1984 Mutations in wheat that raise the level of meiotic chromosome pairing. *In Gene Manipulation in Plant Improvement, 16th Stadler Genetics Symposium, Columbia, Missouri, USA* (Gustafson JP ed.): 295-300.
1304. Sears ER Personal communication.
1305. Sears ER & Briggles LW 1969 Mapping the gene *Pm1* for resistance to *Erysiphe graminis* f. sp. *tritici* on chromosome 7A of wheat. *Crop Science* 9: 96-97.
1306. Sears ER & Loegering WQ 1961 A pollen-killing gene in wheat. *Genetics* 46: 897.
1307. Sears ER & Loegering WQ 1968 Mapping of stem rust genes *Sr9* and *Sr16* of wheat. *Crop Science* 8: 371-373.
1308. Sears ER & Rodenhiser HA 1948 Nullisomic analysis of stem-rust resistance in *Triticum vulgare* var. Timstein. *Genetics* 33: 123-124.
1309. Sears ER, Loegering WQ & Rodenhiser HA 1957 Identification of chromosomes carrying genes for stem rust resistance in four varieties of wheat. *Agronomy Journal* 49: 208-212.
1310. Sears ER, Schaller CW & Briggs FN 1960 Identification of the chromosome carrying the Martin gene for resistance of wheat to bunt. *Canadian Journal of Genetics and Cytology* 2: 262-267.

1311. Sears LMS & Sears ER 1968 The mutants chlorina-1 and Hermsen's virescent. Proceedings of the 3rd International Wheat Genetics Symposium, Australian Academy of Science, Canberra (Findlay KW & Shepherd KW eds.): 299-304.
1312. Sears RG, Hatchett JM, Cox TS & Gill BS 1992 Registration of Hamlet Hessian fly resistant hard red winter wheat germplasm. *Crop Science* 32: 506.
1313. Sebesta EE & Wood EA 1978 Transfer of greenbug resistance from rye to wheat with X-rays. *Agronomy Abstracts* 61-62.
1314. Segal G, Liu B, Vega JM, Abbo S, Rodova M & Feldman M 1997 Identification of a chromosome-specific probe that maps within the *Ph1* deletions in common and durum wheat. *Theoretical and Applied Genetics* 94: 968-970.
1315. Seitova AM, Metakovskii EV & Sozinov AA 1986 (Biotype composition and blocks of gliadin components in the winter bread wheat Bogarnaya 56). *Tsitologiyai Genetika* 20: 196-201. *Cited Plant Breeding Abstracts* 57: 122, p.14.
1316. Shahla A & Tsuchiya T 1990 Genetic analysis in six telotrisomic lines in barley (*Hordeum vulgare* L.). *Journal of Heredity* 81: 127-130.
1317. Shands RG & Cartwright WB 1953 A fifth gene conditioning Hessian fly response in common wheat. *Agronomy Journal* 45: 302-307.
1318. Shaner GE, Ohm HW, Foster JE, Patterson FL, Gallun RL & Buechley GC 1985 Registration of 'Compton' wheat. *Crop Science* 25: 712-713.
1319. Shaner GE, Ohm HW, Foster JE, Patterson FL, Gallun RL, Huber DM, Buechley GC, Safranski CG & Hertel JM 1986 Registration of 'Adder' wheat. *Crop Science* 26: 201.
1320. Shaner GE, Roberts JJ & Finney RE 1972 A culture of *Puccinia recondita* virulent on the wheat cultivar Transfer. *Plant Disease Reporter* 56: 827-830.
1321. Shang HS, Dyck PL & Martens JW 1988 Inheritance of resistance to *Puccinia graminis tritici* in eight resistant accessions of common wheat. *Canadian Journal of Plant Pathology* 10: 36-40.
1322. Shang HS, Dyck PL & Samborski DJ 1986 Inheritance of resistance to *Puccinia recondita* in a group of resistant accessions of common wheat. *Canadian Journal of Plant Pathology* 8: 123-131.
1323. Sharma D & Knott DR 1966 The transfer of leaf rust resistance from *Agropyron* to *Triticum* by irradiation. *Canadian Journal of Genetics and Cytology* 8: 137-143.
1324. Sharma HC & Gill BS 1983 Current status of wide hybridization in wheat. *Euphytica* 32: 17-31.
1325. Sharma S, Louwers JM, Karki CB & Snijders CHA 1995 Postulation of resistance genes to yellow rust in wild emmer wheat derivatives and advanced wheat lines from Nepal. *Euphytica* 81: 271-277.
1326. Sharman BC 1944 'Coloured anthers'-a new monofactorial character in wheat, *T. vulgare* Host. *Nature* 154: 675.
1327. Sharman BC 1958 Purple pericarp: a monofactorial dominant gene in tetraploid wheats. *Nature* 181: 929.
1328. Sharp PJ & Soltes-Rak E 1988 Homoeologous relationships between wheat group 2 chromosome arms as determined by RFLP analysis. Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.):
1329. Sharp PJ, Chao S, Desai S & Gale MD 1989 The isolation, characterisation and application in the Triticeae of a set of RFLP probes identifying each homoeologous chromosome arm. *Theoretical and Applied Genetics* 78: 342-348.
1330. Sharp PJ, Desai S & Gale MD 1988 Isozyme variation and RFLPs at the beta-amylase loci

- in wheat. *Theoretical and Applied Genetics* 76: 691-699.
1331. Sharp PJ, Kreis M, Shewry PR & Gale MD 1988 Location of beta-amylase sequences in wheat and its relatives. *Theoretical and Applied Genetics* 75: 286-290.
1332. Sheen SJ & Snyder LA 1964 Studies on the inheritance of resistance to six stem rust cultures using chromosome substitution lines of a Marquis wheat selection. *Canadian Journal of Genetics and Cytology* 6: 74-82.
1333. Shen TH 1933 (Inheritance of quantitative and qualitative characters in wheat crosses). *Nanking Journal* 3: 129-142. *Cited Plant Breeding Abstracts* 4: 654, p.202.
1334. Shepherd KW 1968 Chromosomal control of endosperm proteins in wheat and rye. *Proceedings of the 3rd International Wheat Genetics Symposium Australian Academy of Science, Canberra* (Findlay KW & Shepherd KW eds.): 86-96.
1335. Shepherd KW 1973 Homoeology of wheat and alien chromosomes controlling endosperm protein phenotypes. *Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri, USA* (Sears ER & Sears LMS eds.): 745-760.
1336. Shewry PR, Bradberry D, Franklin J & White RP 1984 The chromosomal locations and linkage relationships of the structural genes for the prolamin storage proteins (secalin) of rye. *Theoretical and Applied Genetics* 69: 63-69.
1337. Shewry PR, Finch RA, Parmar S, Franklin J & Mifflin BJ 1983 Chromosomal location of *Hor3*, a new locus governing storage proteins in barley. *Heredity* 50: 179-189.
1338. Shewry PR, Mifflin B & Kasarda DD 1983 The structural and evolutionary relationships of the prolamin storage proteins of barley, rye and wheat. *Philosophical Transactions of the Royal Society of London Series B*. 304: 297-308.
1339. Shewry PR, Parmar S & Miller TE 1985 Chromosomal location of the structural genes for the Mr 75,000 gamma-secalins in *Secale montanum* Guss.: evidence for a translocation involving chromosomes 2R and 6R in cultivated rye (*Secale cereale* L.). *Heredity* 54: 381-383.
1340. Shewry PR, Parmar S, Fulrath N, Kasarda DD & Miller TE 1986 Chromosomal locations of the structural gene for secalins in wild perennial rye (*Secale montanum* Guss.) and cultivated rye (*S. cereale* L.) determined by two-dimensional electrophoresis. *Canadian Journal of Genetics and Cytology* 28: 76-83.
1341. Shewry PR, Pratt HM, Finch RA & Mifflin BJ 1978 Genetic analysis of hordein polypeptides from single seeds of barley. *Heredity* 40: 463-466.
1342. Sheybani HA & Jenkins BC 1961 The inheritance of glume pubescence in some durum varieties. *Canadian Journal of Genetics and Cytology* 3: 23-56.
1343. Shi AN, Leath S & Murphy JP 1998 A major gene for powdery mildew resistance transferred to common wheat from wild einkorn wheat. *Phytopathology* 88: 144-147.
1344. Shi AN, Leath S & Murphy JP 1996 Transfer of a major gene for powdery mildew resistance from wild einkorn wheat (*Triticum monococcum* var. *boeoticum*) to common wheat (*Triticum aestivum*). *Phytopathology* 86: 556.
1345. Shiwani & Saini RG 1993 Diversity for resistance to leaf rust in *Triticum aestivum*. *Plant Disease* 77: 359-363.
1346. Sibikeev SN, Kruprov VA, Voronina SA & Elesin VA 1996 First report of leaf rust pathotypes virulent on highly effective *Lr*-genes transferred from *Agropyron* species to bread wheat. *Plant Breeding* 115: 276-278.
1347. Sikka SM, Jain KBL & Parmer KS 1961 Inheritance of some morphological characters in intervarietal crosses of *Triticum aestivum* L. *Journal of the Indian Botanical Society* 40: 217-233. *Cited Plant Breeding Abstracts* 32: 315, p.57.

1348. Sikka SM, Jha KK & Swaminathan MS 1959 Monosomic analysis in bread wheats. II. Identification of chromosomes carrying genes for awning and glume beak shape. *Indian Journal of Genetics* 19: 56-63.
1349. Sikka SM, Rao MV & Athluwalia M 1960 Inheritance studies in wheat. X. Inheritance of field reaction to rusts and other characters. *Indian Journal of Agricultural Science* 30: 223-232.
1350. Singh D, Park RF, Bariana HS & McIntosh 2001 Chromosome location and linkage studies of leaf rust resistance gene *Lr17b* in wheat cultivar Harrier. *Plant Breeding* 120: 7-12.
1351. Singh H & Johnson R 1988 Genetics of resistance to yellow rust in Heines VII, Soissonais and Kalyansona. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 885-890.*
1352. Singh H, Johnson R & Seth D 1990 Genes for race-specific resistance to yellow rust (*Puccinia striiformis*) in Indian wheat cultivars. *Plant Pathology* 39: 424-433.
1353. Singh N, Donovan GR, Carpenter HC, Skerrit JH & Langridge P 1993 Isolation and characterization of wheat triticin cDNA revealing a unique lysine-rich repetitive domain. *Plant Molecular Biology* 22: 227-237.
1354. Singh NK 1985 PhD Thesis, University of Adelaide, Australia.
1355. Singh NK & Shepherd KW 1984 A new approach to studying the variation and genetic control of disulphide-linked endosperm proteins in wheat and rye. *Proceedings of the 2nd International Workshop on Gluten Proteins Wageningen, The Netherlands: 129-136.*
1356. Singh NK & Shepherd KW 1984 Mapping of the genes controlling high-molecular-weight glutelin subunits of rye on the long arm of chromosome 1R. *Genetical Research, Cambridge* 44: 117-123.
1357. Singh NK & Shepherd KW 1985 The structure and genetic control of a new class of disulphide-linked proteins in wheat endosperm. *Theoretical and Applied Genetics* 71: 79-92.
1358. Singh NK & Shepherd KW 1988 Linkage mapping of genes controlling endosperm storage proteins in wheat. 1. Genes on the short arms of group 1 chromosomes. *Theoretical and Applied Genetics* 75: 628-641.
1359. Singh NK & Shepherd KW 1988 Linkage mapping of genes controlling endosperm storage proteins in wheat. 2. Genes on the long arm of the group 1 chromosomes. *Theoretical and Applied Genetics* 75: 642-650.
1360. Singh NK, Shepherd KW, Langridge P, Clem-Gruen L, Skerritt JH & Wrigley CW 1988 Identification of legumin-like proteins in wheat. *Plant Molecular Biology* 11: 633-639.
1361. Singh RP 1992 Association between gene *Lr34* for leaf rust resistance and leaf tip necrosis in wheat. *Crop Science* 32: 874-878.
1362. Singh RP 1992 Genetic association of leaf rust resistance gene *Lr34* with adult plant resistance to stripe rust in bread wheat. *Phytopathology* 82: 835-838.
1363. Singh RP 1993 Genetic association of gene *Bdv1* for tolerance to barley yellow dwarf virus with genes *Lr34* and *Yr18* for adult plant resistance to rusts in bread wheat. *Plant Disease* 77: 1103-1106.
1364. Singh RP, Mujeeb-Kazi A & Huerta-Espino J 1998 *Lr46*: a gene conferring slow-rusting resistance to leaf rust in wheat. *Phytopathology* 88: 890-894.
1365. Singh RP & Gupta AK 1991 Genes for leaf rust resistance in Indian and Pakistani wheats tested with Mexican pathotypes of *Puccinia recondita* f. sp. *tritici*. *Euphytica* 57: 27-36.
1366. Singh RP & McIntosh RA 1984 Complementary genes for resistance to *Puccinia recondita tritici* in *Triticum aestivum* I. Genetic and linkage studies. *Canadian Journal of Genetics and Cytology* 26: 723-735.

1367. Singh RP & McIntosh RA 1984 Complementary genes for resistance to *Puccinia recondita tritici* in *Triticum aestivum* II. Cytogenetic studies. Canadian Journal of Genetics and Cytology 26: 736-742.
1368. Singh RP & McIntosh RA 1985 Cytogenetical studies in wheat XIV. *Sr8b* for reaction to *Puccinia graminis tritici*. Canadian Journal of Genetics and Cytology 28: 189-197.
1369. Singh RP & McIntosh RA 1985 Genetic basis of leaf rust resistance in wheat cultivar Mediterranean. Cereal Rusts Bulletin 13: 31-36.
1370. Singh RP & McIntosh RA 1986 Genetics of resistance to *Puccinia graminis tritici* and *Puccinia recondita tritici* in Kenya Plume wheat. Euphytica 35: 245-256.
1371. Singh RP & McIntosh RA 1987 Genetics of resistance to *Puccinia graminis tritici* in 'Chris' and 'W3746' wheats. Theoretical and Applied Genetics 73: 846-855.
1372. Singh RP & McIntosh RA 1992 Genetic association of wheat stem rust resistance gene *Sr12* and leaf rust resistance gene *Lr27*. Cereal Research Communications 20: 217-220.
1373. Singh RP & Rajaram S 1991 Resistance to *Puccinia recondita* f. sp. *tritici* in 50 Mexican bread wheat cultivars. Crop Science 31: 1472-1479.
1374. Singh RP & Rajaram S 1992 Genetics of adult-plant resistance to leaf rust in 'Frontana' and three CIMMYT wheats. Genome 35: 24-31.
1375. Singh RP & Rajaram S 1994 Genetics of adult plant resistance to stripe rust in ten bread wheats. Euphytica 72: 1-7.
1376. Singh RP 1993 Resistance to leaf rust in 26 Mexican wheat cultivars. Crop Science 33: 633-637.
1377. eplace: Singh RP, Nelson JC & Sorrells ME 1998 Mapping *Yr28* and other genes for resistance to stripe rust in wheat. Crop Science 40: 1148-1155.
1378. Singh RP, Bechere E & Abdalla O 1992 Genetic analysis of resistance to stem rust in ten durum wheats. Phytopathology 92: 919-922.
1379. Singh RP, Burnett PA, Albarran M & Rajaram S 1993 *Bdv1*: a gene for tolerance to barley yellow dwarf virus in bread wheats. Crop Science 33: 231-234.
1380. Singh RP, Morgunov A & Huerta-Espino J 1995 Genes conferring low seedling reaction to Mexican pathotypes of *Puccinia recondita* f. sp. *tritici*, and adult-plant responses of recent wheat cultivars from the former USSR. Euphytica 81: 225-234.
1381. Singh RP, Singh I & Chowdhury RK 1989 Hybrid necrosis in bread wheat III. Wheat Information Service 68: 6-8.
1382. Singh RP, Villareal RL, Rajaram S & Deltoro E 1989 Cataloguing dwarfing genes *Rht1* and *Rht2* in germplasm used by the bread wheat breeding program at CIMMYT. Cereal Research Communications 17: 273-279.
1383. Singh S & Sethi GS 1991 Crossability of some bread wheat landraces and improved cultivars from western Himalayas with rye. Euphytica 53: 137-141.
1384. Singh SJ & McIntosh RA 1988 Allelism of two genes for stem rust resistance in triticale. Euphytica 38: 185-189.
1385. Sitch LA & Snape JW 1986 Allelic variation at the crossability loci in wheat (*Triticum aestivum*). Wheat Information Service 63: 11-15.
1386. Sitch LA & Snape JW 1989 Allelic variation at the crossability loci in wheat (*Triticum aestivum*). Wheat Information Service 68: 1-5.
1387. Sitch LA, Snape JW & Firman SJ 1985 Intrachromosomal mapping of crossability genes in wheat (*Triticum aestivum*). Theoretical and Applied Genetics 70: 309-314.
1388. Sloomaker LAJ, Lange W, Jochemsen G & Schepers J 1974 Monosomic analysis in bread

- wheat of resistance to cereal root eelworm. *Euphytica* 23: 497-503.
1389. Smith EL, Schlehner AM, Young HC & Edwards LH 1968 Registration of Agent wheat. *Crop Science* 8: 511-512.
1390. Smith EL, Sebesta EE, Young HC, Pass H & Abbot DC 1981 Registration of Payne wheat. *Crop Science* 21: 636.
1391. Smith GS 1957 Inheritance of stem rust reaction in tetraploid wheat hybrids I. Allelic genes in *Mindum durum* and Vernal emmer. *Agronomy Journal* 49: 134-137.
1392. Smith JB 1998 Personal communication.
1393. Smith L 1939 Mutants and linkage studies in *Triticum monococcum* and *T. aegilopoides*. Missouri Agricultural Experiment Station Research Bulletin 298: 26 pp.
1394. Smith SM, Bedbrook J & Speir J 1983 Characterization of three cDNA clones encoding different mRNAs for the precursor of the small subunit of wheat ribulose biphosphate carboxylase. *Nucleic Acids Research* 11: 8719-8734.
1395. Smith WK 1933 Inheritance of reaction of wheat to physiologic forms of *T. levis* and *T. tritici*. *Journal of Agricultural Research* 47: 89-105.
1396. Snape JW, Angus WJ, Parker B & Lechie D 1987 The chromosomal locations of genes conferring differential response to the wild oat herbicide, difenzoquat. *Journal of Agricultural Science, Cambridge* 108: 543-548.
1397. Snape JW, Chapman V, Moss J, Blanchard CE & Miller TE 1979 The crossabilities of wheat varieties with *Hordeum bulbosum*. *Heredity* 42: 291-298.
1398. Snape JW, Dubcovsky J & Laurie D 1998 Personal communication.
1399. Snape JW, Flavell RB, O'dell M, Hughes WG & Payne PI 1985 Intra-chromosomal mapping of the nucleolar organiser region relative to three marker loci on chromosome 1B of wheat (*Triticum aestivum*). *Theoretical and Applied Genetics* 69: 263-270.
1400. Snape JW, Law CN, Parker BB & Worland AJ 1985 Genetical analysis of chromosome 5A of wheat and its influence on important agronomic traits. *Theoretical and Applied Genetics* 71: 518-526.
1401. Snape JW, Leckie D, Parker BB & Nevo E 1991 The genetical analysis and exploitation of differential responses to herbicides in crop species. *In: Herbicide Resistance in Weeds and Crops*. (Casely JC, Cussans G and Atkin RK eds.). Butterworth-Heinemann, Oxfordshire, England: 305-317.
1402. Snape JW, Parker B, Leckie D, Rosati-Colarieti G & Bozorgipour R 1988 Differential responses to herbicides in wheat: uses as genetic markers and target genes for genetic manipulation. *Proceedings of the International Congress of EUCARPIA: Genetic Manipulation in Plant Breeding, Biotechnology for the Breeder*, Helsingar, Denmark.
1403. Sobko TA 1984 Identification of the locus which controls the synthesis of alcohol-soluble endosperm proteins in soft winter wheat. *Journal of Agricultural Science, Kiev* N7320: 78-80.
1404. Sobko TA & Popereya FA 1983 (Linkage of the gliadin-coding locus *Gld 1A* and the gene for hairy glumes *Hg* in wheat.). *Nauchno-tekhnicheskii Byulleten Vsesoyuznogo Selektionno-geneticheskogo Instituta* 2: 28-33. *Cited Plant Breeding Abstracts* 54: 8716, p. 875.
1405. Sobko TA & Sozinov AA 1993 Genetic control of morphologic traits of a spike and the relationship with allelic variation of marker loci of chromosomes 1A and 1B of winter common wheat. *Tsitologiya I Genetika (Eng vers)*: 27(5): 15-22. Russian version: 15-22.
1406. Sobko TA & Sozinov AA 1997 (Linkage mapping of the loci controlling spike morphological traits and seed storage proteins on the 1A chromosome in winter common



- wheats). *Tsitologiya i Genetika* 31(4): 18-26.
1407. Sobko TA, Poperelya FA, Rybalka AI & Sozinov AA 1986 (Inheritance and mapping of genes coding for synthesis of storage proteins on chromosome 1A of bread wheat.). *Tsitologiyaii Genetika* 20: 372-376. *Cited Plant Breeding Abstracts* 57: 2629, p. 275.
1408. Soliman AS, Heyne EG & Johnston CO 1963 Resistance to leaf rust in wheat derived from *Aegilops umbellulata* translocation lines. *Crop Science* 3: 254-256.
1409. Soliman AS, Heyne EG & Johnston CO 1964 Genetic analysis of leaf rust resistance in the eight differential varieties of wheat. *Crop Science* 4: 246-248.
1410. Somasco OC 1990 Inheritance of resistance to *Septoria tritici* blotch in wheat. M.Sc. Thesis, University of California, Davis, USA.
1411. Sontag T, Salovara H & Payne PI 1986 The high molecular-weight glutenin subunit compositions of wheat varieties bred in Finland. *Journal of Agricultural Science, Finland* 58: 151-156.
1412. Sorrells ME & Jensen NF 1987 Registration of 'Geneva' winter wheat. *Crop Science* 27: 1314-1315.
1413. Sosa O & Foster JE 1976 Temperature and the expression of resistance to the Hessian fly. *Environmental Entomology* 5: 333-336.
1414. Sourdille P, Perretant MR, Charmet G, Leroy P, Gautier MF, Joudrier P, Nelson JC, Sorrells ME & Bernard M 1996 Linkage between RFLP markers and genes affecting kernel hardness in wheat. *Theoretical and Applied Genetics* 93: 580-586.
1415. Sozinov AA 1984 Blocks of cereal storage proteins as genetic markers. *Proceedings of the 2nd International Workshop on Gluten Proteins Wageningen, The Netherlands* 121-127.
1416. Sozinov AA 1985 Protein polymorphism and its importance in genetics, breeding and evolution. *Molekulyarnye Mekhanizmyi Geneticheskikh Protsesov. Molekulyarnaya Genetika, Evolyutsiya i Molekulyarno-Geneticheskie Osnovy Seleksii Institut Obshchei Genetiki, Moscow, USSR (Sozinov AA ed.):* 219-238.
1417. Srinivasan VK & Padmanabhan TS 1965 Inheritance of disease resistance and ear characters in tetraploid wheats. *Indian Journal of Genetics* 25: 91-99.
1418. Stanford EH 1941 A new factor for resistance to bunt, *Tilletia tritici*, linked with the Martin and Turkey factors. *Journal of the American Society of Agronomy* 33: 559-568.
1419. Starling TM, Roane CW & Camper HM 1984 Registration of Tyler wheat. *Crop Science* 24: 827.
1420. Stebbins NB, Patterson FL & Gallun RL 1980 Interrelationships among wheat genes for resistance to Hessian fly. *Crop Science* 20: 177-180.
1421. Stebbins NB, Patterson FL & Gallun RL 1982 Interrelationships among wheat genes *H3*, *H6*, *H9* and *H10* for Hessian fly resistance. *Crop Science* 22: 1029-1032.
1422. Stebbins NB, Patterson FL & Gallun RL 1983 Inheritance of resistance of PI 94587 wheat to biotypes B and D of Hessian fly. *Crop Science* 23: 251-253.
1423. Steinitz-Sears LM 1963 Cytogenetic studies bearing on the nature of the centromere. *Proceedings of the XI International Congress of Genetics The Hague* 1: 123.
1424. Stelmakh AF 1987 Growth habit in common wheat (*Triticum aestivum* L. em Thell.). *Euphytica* 36: 513-519.
1425. Stephenson P, Bryan GJ, Kirby J, Collins AJ, Devos KM, Busso CS & Gale MD 1998 Fifty new microsatellite loci for the wheat genetic map. *Theoretical and Applied Genetics* 97: 946-949.
1426. Stewart G & Woodward RW 1930 Inheritance in a wheat cross between Hybrid 128 x

- White Odessa and Kanred. *Journal of Agricultural Research* 42: 507-520.
1427. Stinissen HM, Peumans WJ, Law CN & Payne PI 1983 Control of lectins in *Triticum aestivum* and *Aegilops umbellulata* by homoeologous group 1 chromosomes. *Theoretical and Applied Genetics* 67: 53-58.
1428. Streckeisen P & Fried PM 1985 (Analysis of the virulence of wheat powdery mildew in Switzerland in 1981 to 1983). *Schweizerische Landwirtschaftliche Forschung* 24: 261-269. *Cited Plant Breeding Abstracts* 56: 9432, p.1017.
1429. Stubbs RW 1966 Recent aspects of the physiological specialisation of yellow rust in The Netherlands. *Proceedings of the 3rd European Yellow Rust Conference, Cambridge, 1994*: pp.47-54.
1430. Stubbs RW 1985 Stripe rust. *In, The Cereal Rusts II*. Academic Press, Orlando. (Roelfs AP & Bushnell WR eds.): 61-101.
1431. Stubbs RW, Fuchs E, Vecht H & Basset EJW 1974 The international survey of factors of virulence of *Puccinia striiformis* Westend. in 1969, 1970 and 1971. *Nederlands Grain-Centrum Technisch Bericht NR. 21 Wageningen* 88 pp.
1432. Stuckey J & Driscoll CJ Personal communication.
1433. Sugiyama T, Ratajski A, Peterson D & Soll D 1985 A wheat HMW glutenin subunit gene reveals a highly repeated structure. *Nucleic Acids Research* 13: 8729-8737.
1434. Sun GL, Fahima T, Korol AB, Turpeinen T, Grama A, Ronin YI & Nevo E 1997 Identification of molecular markers linked to the *Yr15* stripe rust resistance gene of wheat originated in wild emmer wheat, *Triticum dicoccoides*. *Theoretical and Applied Genetics* 95: 622-628.
1435. Sun M & Dvorak J 1992 Chromosomal location of adenylate kinase, 6-phosphogluconate dehydrogenase, and glutamate-pyruvate transaminase structural loci in wheat, barley and *Lophopyrum elongatum*. *Genome* 35: 147-154.
1436. Sunderman DW & Bruinsma B 1975 Registration of four wheat cultivars. *Crop Science* 15: 104-105.
1437. Sunderman DW & Hatchett JH 1986 Relationship between resistance to Hessian fly and powdery mildew in soft white spring wheat PI 468960. *Crop Science* 26: 1071-1072.
1438. Sunderman DW & Wise M 1973 Registration of Ranger wheat. *Crop Science* 13: 287.
1439. Sunderman DW, O'Connell B & Hatchett JH 1986 Registration of PI 468960 Hessian fly resistant soft spring wheat germplasm. *Crop Science* 26: 1093.
1440. Sunderwirth SD & Roelfs AP 1980 Greenhouse evaluation of the adult plant resistance of *Sr2* to wheat stem rust. *Phytopathology* 70: 634-637.
1441. Suneson CA & Noble WB 1950 Further differentiation of genetic factors in wheat for resistance to the Hessian fly. *United States Department of Agriculture Technical Bulletin* 1004: 8pp.
1442. Suseelan KN, Rao MVP, Bhatia CR & Rao IN 1982 Mapping of an alcohol dehydrogenase (*Adh-A1*) structural gene on chromosome 4A of *durum* wheat. *Heredity* 49: 353-357.
1443. Suseelan KN, Rao PMV & Bhatia CR 1986 Transfer of a variant allele (*Adh-A1b*) of alcohol dehydrogenase isozyme gene from durum to *aestivum* wheat. *Cereal Research Communications* 14: 317-318.
1444. Sutka J 1977 The association of genes for purple coleoptile with chromosomes of the wheat variety Mironovskaya 808. *Euphytica* 26: 475-479.
1445. Sutka J & Kovacs G 1987 Chromosomal location of dwarfing gene *Rht12* in wheat. *Euphytica* 36: 521-523.

1446. Sutka J & Snape JW 1989 Location of a gene for frost resistance on chromosome 5A of wheat. *Euphytica* 42: 41-44.
1447. Swaminathan MS & Rao MVP 1961 Macro-mutations and sub-specific differentiation in *Triticum*. *Wheat Information Service* 13: 9-11.
1448. Sybenga J 1983 Rye chromosome nomenclature and homoeology relationships. *Zeitschrift für Pflanzenzüchtung* 90: 297-304.
1449. Syme JR 1983 Flinders. *Journal of the Australian Institute of Agricultural Science* 49: 42.
1450. Syme JR, Law DP, Martin DJ & Rees RG 1983 Bass. *Journal of the Australian Institute of Agricultural Science* 49: 46-47.
1451. Syme JR, Martin DJ, Law DP & Rees RG 1983 King. *Journal of the Australian Institute of Agricultural Science* 49: 47-48.
1452. Symes KJ 1965 The inheritance of grain hardness in wheat as measured by the particle size index. *Australian Journal of Agricultural Research* 16: 113-123.
1453. Tahir ChM & Tsunewaki K 1969 Monosomic analysis of *Triticum spelta* var. *duhamelianum*, a fertility restorer for *T. timopheevi* cytoplasm. *Japanese Journal of Genetics* 44: 19.
1454. Tai SE 1934 (Linkage inheritance of certain characters in wheat). *Journal of the Agricultural Association of China* 120: 10-55. *Cited Plant Breeding Abstracts* 8: 452, p.127.
1455. Takahashi R & Yasuda S 1971 Genetics of earliness and growth habit in barley. *In: Proceedings of the 2nd International Barley Genetics Symposium*, (Nilan RA ed.) Washington State University Press, USA, pp388-408.
1456. Talbert LE, Bruckner PL, Smith LY, Sears R & Martin TJ 1996 Development of PCR markers linked to resistance to wheat streak mosaic virus in wheat. *Theoretical and Applied Genetics* 93: 463-467.
1457. Tang KS & Hart GE 1975 Use of isozymes as chromosome markers in wheat-rye addition lines and in triticale. *Genetical Research, Cambridge* 26: 187-201.
1458. Tanner DG & Falk DE 1981 The interaction of genetically controlled crossability in wheat and rye. *Canadian Journal of Genetics and Cytology* 23: 27-32.
1459. Taylor AJ, Smith GMB & Johnson R 1981 Race-specific genetic factors for resistance to *Puccinia striiformis* in wheat cultivars from the Plant Breeding Institute. *Cereal Rusts Bulletin* 9: 33-45.
1460. The TT 1973 Chromosome location of genes conditioning stem rust resistance transferred from diploid to hexaploid wheat. *Nature New Biology* 241: 256.
1461. The TT Personal communication.
1462. The TT & McIntosh RA 1975 Cytogenetical studies in wheat. VIII. Telocentric mapping and linkage studies involving *Sr22* and other genes in chromosome 7AL. *Australian Journal of Biological Sciences* 28: 531-538.
1463. The TT, Gupta RB, Dyck PL, Appels R, Hohmann U & McIntosh RA 1992 Characterization of stem rust resistant derivatives of wheat cultivar Amigo. *Euphytica* 58: 245-252.
1464. The TT, McIntosh RA & Bennett FGA 1979 Cytogenetical studies in wheat. IX. Monosomic analyses, telocentric mapping and linkage relationships of genes *Sr21*, *Pm4*, and *Mle*. *Australian Journal of Biological Sciences* 32: 115-125.
1465. Thiele V & Melz G 1992 Chromosomal location of genes controlling lactate dehydrogenase in rye, wheat and barley. *Genome* 35: 32-34.
1466. Thiele V & Seidel A 1990 Chromosomal location of a catalase gene in wheat using rye-

- wheat-additions. *Plant Breeding* 105: 78-79.
1467. Thomas JB & Conner RI 1986 Resistance to colonization by the wheat curl mite in *Aegilops squarrosa* and its inheritance after transfer to common wheat. *Crop Science* 26: 527-530.
1468. Thomas JB & Whelan EDP 1991 Genetics of wheat curl mite resistance in wheat: recombination of *Cmc1* with the 6D centromere. *Crop Science* 31: 936-938.
1469. Thomas JB, Kaltsikes PD & Anderson RG 1981 Relation between wheat-rye crossability and seed set of common wheat after pollination with other species in the *Hordeae*. *Euphytica* 30: 121-127.
1470. Thompson RD, Bartels D & Harberd NP 1985 Nucleotide sequence of a gene from chromosome 1D of wheat encoding a HMW-glutenin subunit. *Nucleic Acids Research* 13: 6833-6846.
1471. Thompson RD, Bartels D, Harberd NP & Flavell RB 1983 Characterisation of the multigene family coding for HMW glutenin subunits in wheat using cDNA clones. *Theoretical and Applied Genetics* 67: 87-96.
1472. Tomar SMS & Singh B 1998 Hybrid chlorosis in wheat x rye crosses. *Euphytica* 99: 1-4.
1473. Tomar SMS, Kochumadhavan M & Nambisan PNN 1987 Frequency and distribution of genes for necrosis and chlorosis in tetraploid species of *Triticum*. *Indian Journal of Genetics* 47: 71-75.
1474. Tomar SMS, Kochumadhavan M & Nambisan PNN 1989 Hybrid weakness in *Triticum dicoccum* Schubl. *Wheat Information Service* 69: 21-23.
1475. Tomar SMS, Kochumadhavan M, Nambisan PNN & Joshi BC 1988 Hybrid necrosis and chlorosis in wild emmer, *T. dicoccoides* Korn. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 165-168.*
1476. Torres JV & Garcia-Olmedo F 1974 Chromosomal location of a gene that controls sterol esterification in *Triticum aestivum* L. *Plant Science Letters* 3: 213-217.
1477. Torrie JH 1936 Inheritance studies of several qualitative characters in spring wheat crosses between varieties relatively susceptible and resistant to drought. *Canadian Journal of Research C* 14: 368-385.
1478. Tosa Y & Sakai K 1990 The genetics of resistance of hexaploid wheat to the wheatgrass powdery mildew fungus. *Genome* 33: 225-230.
1479. Tosa Y & Tada S 1990 Operation of resistance genes in wheat to *Erysiphe graminis* f. sp. *tritici* against *E. graminis* f. sp. *agropyri*. *Genome* 33: 231-234.
1480. Tosa Y & Tsujimoto H 1994 Telosomic mapping of wheat genes for resistance to inappropriate formae speciales of *Erysiphe graminis*. *Wheat Information Service* 79: 33-36.
1481. Tosa Y, Tokunaga H & Ogura H 1988 Identification of a gene for resistance to wheatgrass powdery mildew fungus in common wheat cultivar Chinese Spring. *Genome* 30: 612-614.
1482. Tosa Y, Tsujimoto H & Ogura H 1987 A gene involved in the resistance of wheat to wheatgrass powdery mildew fungus. *Genome* 29: 850-852.
1483. Tsujimoto H 1986 Hybrid dysgenesis in wheat caused by gametocidal genes. PhD Thesis, Kyoto University, Japan .
1484. Tsujimoto H 1994 Two new sources of gametocidal genes from *Aegilops longissima* and *Ae. sharonensis*. *Wheat Information Service* 79: 42-46.
1485. Tsujimoto H 1995 Gametocidal genes in wheat and its relatives. IV. Functional relationships between six gametocidal genes. *Genome* 38: 283-289.
1486. Tsujimoto H & Noda K 1988 Chromosome breakage in wheat induced by the gametocidal gene of *Aegilops triuncialis* L.: Its utilization for wheat genetics and breeding. *Proceedings*

- of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 455-460.
1487. Tsujimoto H & Tsunewaki K 1984 Gametocidal genes in wheat and its relatives. I. Genetic analyses in common wheat of a gametocidal gene derived from *Aegilops speltoides*. Canadian Journal of Genetics and Cytology 26: 78-84.
1488. Tsujimoto H & Tsunewaki K 1985 Gametocidal genes in wheat and its relatives. II. Suppressor of the chromosome 3C gametocidal gene of *Aegilops triuncialis*. Canadian Journal of Genetics and Cytology 27: 178-185.
1489. Tsujimoto H & Tsunewaki K 1985 Hybrid dysgenesis in common wheat caused by gametocidal genes. Japanese Journal of Genetics 60: 565-578.
1490. Tsujimoto H & Tsunewaki K 1988 Gametocidal genes in wheat and its relatives. III. Chromosome location and effects of two *Aegilops speltoides*-derived gametocidal genes in common wheat. Genome 30: 239-244.
1491. Tsunewaki K 1960 Monosomic and conventional analysis in common wheat. III. Lethality. Japanese Journal of Genetics 35: 71-75.
1492. Tsunewaki K 1964 Geographical distribution of necrosis genes in common wheat. I. Genetic basis of necrosis. Annual Report of the National Institute of Genetics, Japan 15.:
1493. Tsunewaki K 1966 Comparative gene analysis of common wheat and its ancestral species. II. Waxiness, growth habit and awnedness. Japanese Journal of Botany 19: 175-254.
1494. Tsunewaki K 1966 Comparative gene analysis of common wheat and its ancestral species. III. Glume hairiness. Genetics 53: 303-311.
1495. Tsunewaki K 1966 Gene analysis on chlorosis of the hybrid, *Triticum aestivum* var. Chinese Spring x *T. macha* var. subletschumicum and its bearing on the genetic basis of necrosis and chlorosis. Japanese Journal of Genetics 41: 413-426.
1496. Tsunewaki K 1969 Necrosis genes in *Triticum macha*, *T. spelta* and *T. vavilovii*. Wheat Information Service 28: 1-4.
1497. Tsunewaki K 1971 Distribution of necrosis genes in wheat. V. *Triticum macha*, *T. spelta* and *T. vavilovii*. Japanese Journal of Genetics 46: 93-101.
1498. Tsunewaki K 1992 Aneuploid analysis of hybrid necrosis and hybrid chlorosis in tetraploid wheats using the D genome chromosome substitution lines of durum wheat. Genome 35: 594-601.
1499. Tsunewaki K 1998 Personal communication.
1500. Tsunewaki K Personal communication.
1501. Tsunewaki K & Hamada J 1968 A new type of hybrid chlorosis found in tetraploid wheats. Japanese Journal of Genetics 43: 279-288.
1502. Tsunewaki K & Hori T 1967 Distribution of necrosis genes in wheat. IV. Common wheat from Australia, Tibet and Northern Europe. Japanese Journal of Genetics 42: 245-250.
1503. Tsunewaki K & Hori T 1968 Necrosis genes in common wheat varieties from Australia, Tibet and Northern Europe. Wheat Information Service 26: 22-27.
1504. Tsunewaki K & Kihara H 1961 F1 monosomic analysis of *Triticum macha*. Wheat Information Service 12: 1-2.
1505. Tsunewaki K & Nakai Y 1964 Geographical distribution of necrosis genes in wheat. II. Distribution in Japanese local varieties. III. Distribution in Pakistan, Afganistan and Iran. Annual Report of the National Institute of Genetics, Japan 15.
1506. Tsunewaki K & Nakai Y 1967 Distribution of necrosis genes in wheat I. Common wheat from Central Asia. Canadian Journal of Genetics and Cytology 9: 69-74.

1507. Tsunewaki K & Nakai Y 1967 Distribution of necrosis genes in wheat II. Japanese local varieties of common wheat. *Canadian Journal of Genetics and Cytology* 9: 75-78.
1508. Tsunewaki K & Nakai Y 1967 Distribution of necrosis genes in wheat III. U.S. common wheat. *Canadian Journal of Genetics and Cytology* 9: 385-393.
1509. Tsunewaki K & Nakai Y 1967 Necrosis genes in US varieties of common wheat. *Wheat Information Service* 25: 9-18.
1510. Tsunewaki K & Nakai Y 1972 Distribution of necrosis genes in wheat. VII. Common wheat from the Mediterranean. *Japanese Journal of Genetics* 47: 277-290.
1511. Tsunewaki K & Nakai Y 1973 Considerations on the origin and speciation of four groups of wheat from the distribution of necrosis and chlorosis genes. *Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri (Sears ER & Sears LM eds.):* 123-129.
1512. Tsunewaki K, Kasahara F & Fujita T 1971 Distribution of necrosis genes in wheat. VI. Chinese common wheat. *Japanese Journal of Genetics* 46: 103-107.
1513. Tuleen NA, Yang Y-C & Hart GE 1992 Evidence that *Aco-B2* and *Aco-D2* of *Triticum aestivum* are located in chromosomes 4B and 4D. *Theoretical and Applied Genetics* 83: 1019-1021.
1514. Tyler JM, Webster JA & Merkle OG 1987 Designations for genes in wheat germplasm conferring greenbug resistance. *Crop Science* 27: 526-527.
1515. Tyler JM, Webster JA & Smith EL 1985 Biotype E greenbug resistance in WSMV resistant wheat germplasm lines. *Crop Science* 25: 686-688.
1516. Uhlen AK & Ringland K 1987 Gene dosage effects on storage proteins in wheat (*Triticum aestivum*). *Journal of Cereal Science* 6: 219-223.
1517. Unrau J 1950 The use of monosomes and nullisomes in cytogenetic studies in common wheat. *Scientific Agriculture* 30: 66-89.
1518. Urbano M, Resta P, Benedettelli S & Bianco A 1989 A *Dasypyrum villosum* (L.) Candargy chromosome related to homoeologous group 3 of wheat. *Proceedings of the 7th International Wheat Genetics Symposium IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.):* 169-173.
1519. Vacenko AA 1934 (Inheritance of glume pubescence and of the black colour of the ear in durum wheat.). *C.R. Academy of Science, U.S.S.R.* 4: 338-343. *Cited Plant Breeding Abstracts* 6: 133, p. 38.
1520. Vacenko AA 1936 (Inheritance of grey-smokey colour in the ear of *Triticum vulgare* Vill.). *Journal of Botany U.S.S.R.* 21: 186-188. *Cited Plant Breeding Abstracts* 9: 175, p. 43.
1521. Vahl U & Muller G 1991 Endopeptidase EP-1 as a marker for the eyespot resistance gene *Pch-1* from *Aegilops ventricosa* in wheat line 'H-93-70' *Plant Breeding* 107: 77-79.
1522. Valkoun J, Kucerova D & Bartos P 1986 (Transfer of stem rust resistance from *Triticum monococcum* L. to *T. aestivum* L.). *Sbornik UVTI Z. Genetika a Slechteni* 22: 9-16. *Cited Plant Breeding Abstracts* 56: 4701, p. 504.
1523. Vallega V 1986 High-molecular-weight glutenin subunit composition of Italian *Triticum durum* cultivars and spaghetti cooking quality. *Cereal Research Communications* 14: 251-257.
1524. Vallega V 1988 Comparative analysis of high-molecular-weight glutenin subunit composition in various *Triticum* species. *Plant Breeding* 100: 241-246.
1525. Vallega V 1988 High molecular weight glutenin subunit composition of 115 cultivars of *Triticum turgidum* var. *durum* from various origins. *Genetica Agraria* 42: 235-240.
1526. Vallega V & Mello-Sampayo T 1987 Variation in high-molecular-weight glutenin subunits

- amongst cultivars of *Triticum turgidum* L. from Portugal. *Euphytica* 36: 755-762.
1527. Vallega V & Waines JG 1987 High molecular weight glutenin subunit variation in *Triticum turgidum* var. *dicoccum*. *Theoretical and Applied Genetics* 74: 706-710.
1528. Van Campenhout S & Volckaert G 1997 PCR-based isolation and chromosome assignment of members of the *Em* gene family of wheat. *DNA Sequence*: 289-300.
1529. Van Deynze AE, Dubcovsky J, Gill KS, Nelson JC, Sorrells ME, Dvorak J, Gill BS, Lagudah ES, McCouch SR & Appels R 1995 Molecular-genetic maps for group 1 chromosomes of Triticeae species and their relation to chromosomes in rice and oat. *Genome* 38: 45-59.
1530. Van Heemert C & Sybenga J 1972 Identification of the three chromosomes involved in the translocations which structurally differentiate the genome of *Secale cereale* L. from those of *Secale montanum* Guss. and *Secale vavilovii* Grossh. *Genetica* 43: 387-393.
1531. Van Kints TMC 1986 Mildew of wheat. UK Cereal Pathogen Virulence Survey, Annual Report: 7-12.
1532. Van Silfhout CH Personal communication.
1533. Vapa L & Hart GE 1987 Genetic variation in enzyme phenotypes among Yugoslav wheat cultivars. *Plant Breeding* 98: 273-280.
1534. Vaquero F, Rebordinos L, Vences FJ & Perez de la Vega M 1990 Genetic mapping of isozyme loci in *Secale cereale* L. *Theoretical and Applied Genetics* 80: 88-94.
1535. Waines JG & Payne PI 1987 Electrophoretic analysis of the high-molecular-weight glutenin subunits of *Triticum monococcum*, *T. urartu*, and the A genome of bread wheat (*T. aestivum*). *Theoretical and Applied Genetics* 74: 71-76.
1536. Walker-Simmons MK 1995 Personal communication.
1537. Wall AM, Riley R & Gale MD 1971 The position of a locus on chromosome 5B of *Triticum aestivum* affecting homoeologous meiotic pairing. *Genetical Research, Cambridge* 18: 329-339.
1538. Wang G, Snape JW, Hu H & Rogers WJ 1993 The high-molecular-weight glutenin subunit compositions of Chinese bread wheat varieties and their relationship with bread-making quality. *Euphytica* 68: 205-212.
1539. Wang J, Xu P & Fincher GB 1992 (1-3)-beta-glucanase isozyme GIII from barley (*Hordeum vulgare*). *European Journal of Biochemistry* 209: 103-109.
1540. Wang ML, Atkinson MD, Chinoy CN, Devos KM & Gale MD 1992 Comparative RFLP-based genetic maps of barley chromosome 5 (1H) and rye chromosome 1R. *Theoretical and Applied Genetics* 84: 339-344.
1541. Wang ML, Atkinson MD, Chinoy CN, Devos KM, Harcourt RL, Liu CJ, Rogers WJ & Gale MD 1991 RFLP-based genetic map of rye (*Secale cereale* L.) chromosome 1R. *Theoretical and Applied Genetics* 82: 174-178.
1542. Wang ML, Leitch A, Swarzacher T, Heslop-Harrison J & Moore G 1992 Construction of a chromosome enriched HpaII library from flow-sorted wheat chromosomes. *Nucleic Acids Research* 20: 1897-1901.
1543. Wang RC, Barnes EE & Cook LL 1980 Transfer of wheat streak mosaic virus resistance from *Agropyron* to homoeologous chromosome of wheat. *Cereal Research Communications* 8: 2335-339.
1544. Wang YC, Xue XZ, Tang GS & Wang QY 1982 (Monosomic analysis of height in the wheat variety Aibian 1). *Acta Agronomica Sinica* 8: 193-198. [In Chinese]. *Cited Plant Breeding Abstracts* 53: 4597, p.427.
1545. Washington WJ & Sears ER 1970 Ethyl methanesulphonate-induced chlorophyll mutations in *Triticum aestivum*. *Canadian Journal of Genetics and Cytology* 12: 851-859.

1546. Watanabe N 1994 Near-isogenic lines of durum wheat: their development and plant characteristics. *Euphytica* 72: 143-147.
1547. Watanabe N, Yotani Y & Furuta Y 1996 The inheritance and chromosomal location of a gene for long glume in durum wheat. *Euphytica* 91: 235-239.
1548. Waterhouse WL 1930 Australian rust studies. III. Initial results of breeding for rust resistance. *Proceedings of the Linnean Society of New South Wales* 55: 596-636.
1549. Waterhouse WL 1933 On the production of fertile hybrids from crosses between vulgare and Khapli emmer wheats. *Proceedings of the Linnean Society of New South Wales* 58: 3.
1550. Watkins AE 1927 Genetic and cytological studies in wheat. IV. *Journal of Genetics* 19: 81-96.
1551. Watkins AE & Ellerton S 1940 Variation and genetics of the awn in *Triticum*. *Journal of Genetics* 40: 243-270.
1552. Watson IA & Luig NH 1961 Leaf rust in Australia: A systematic scheme for the classification of strains. *Proceedings of the Linnean Society of New South Wales* 86: 241-250.
1553. Watson IA & Luig NH 1963 The classification of *Puccinia graminis* var. *tritici* in relation to breeding resistant varieties. *Proceedings of the Linnean Society of New South Wales* 88: 235-258.
1554. Watson IA & Luig NH 1966 *Sr15*-a new gene for use in the classification of *Puccinia graminis* var. *tritici*. *Euphytica* 15: 239-250.
1555. Watson IA & Luig NH Personal communication.
1556. Watson IA & Stewart DM 1956 A comparison of the rust reaction of wheat varieties Gabo, Timstein and Lee. *Agronomy Journal* 48: 514-516.
1557. Watson IA & Waterhouse WL 1949 Australian rust studies VII. Some recent observations on wheat stem rust in Australia. *Proceedings of the Linnean Society of New South Wales* 74: 113-131.
1558. Waud JL & Metzger RJ 1970 Inheritance of a new factor (*Bt8*) for resistance to common bunt of wheat. *Crop Science* 10: 703-704.
1559. Wehling P 1991 Inheritance, linkage relationship and chromosomal localization of the glutamate oxaloacetate transaminase, acid phosphatase, and diaphorase isozyme genes in *Secale cereale* L. *Theoretical and Applied Genetics* 82: 569-576.
1560. Wehling P & Schmidt-Stohn G 1984 Linkage relationships of esterase loci in rye (*Secale cereale* L.). *Theoretical and Applied Genetics* 67: 149-153.
1561. Wehling P, Schmidt-Stohn G & Wricke G 1985 Chromosomal location of esterase, peroxidase, and phosphoglucomutase isozyme structural genes in cultivated rye (*Secale cereale* L.). *Theoretical and Applied Genetics* 70: 377-382.
1562. Wellings CR 1986 Host: pathogen studies of wheat stripe rust in Australia. PhD Thesis, The University of Sydney, Australia.
1563. Wellings CR, McIntosh RA & Hussain M 1988 A new source of resistance to *Puccinia striiformis* f. sp. *tritici* in spring wheats (*Triticum aestivum*). *Plant Breeding* 100: 88-96.
1564. Wells DG & Swenson SP 1944 Inheritance and interaction of genes governing reaction to stem rust, leaf rust and powdery mildew in a spring wheat cross. *Journal of the American Society of Agronomy* 37: 127-133.
1565. Wells DG, Bonnemann JJ, Gardiner WS, Finney KF, Giese HA & Szymiest CE 1983 Nell wheat. *Crop Science* 23: 804-805.
1566. Welsh JR, Keim DL, Pirasteh B & Richards RD 1973 Genetic control of photoperiod



- response in wheat. Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri, USA (Sears ER & Sears LMS eds.): 879-884.
1567. Weng J, Wang Z-F & Nguyen HT 1991 A *Triticum aestivum* cDNA clone encoding a low-molecular-weight heat shock protein. *Plant Molecular Biology* 17: 273-275.
1568. Weng J, Wang Z-F & Nguyen HT 1991 Nucleotide sequence of a *Triticum aestivum* cDNA clone which is homologous to the 26 kDa chloroplast-localized heat shock protein gene of maize. *Plant Molecular Biology* 17: 255-258.
1569. Weng J, Wang Z-F & Nguyen HT 1993 Molecular cloning and sequence analysis of cDNA encoding cytoplasmic low molecular weight heat shock proteins in hexaploid wheat. *Plant Science* 92: 35-46.
1570. Wenzel WG 1971 Monosomic analysis of the corroded characteristic in wheat. *Canadian Journal of Genetics and Cytology* 13: 227-230.
1571. Werner JE, Endo TR & Gill BS 1992 Towards a cytogenetically based physical map of the wheat genome. Proceedings of the National Academy of Sciences, USA 89: 11307-11311.
1572. Westhoff P 1988 Personal communication.
1573. Whelan EDP 1988 Personal communication.
1574. Whelan EDP 1988 Transmission of a chromosome from decaploid *Agropyron elongatum* that confers resistance to the wheat curl mite in common wheat. *Genome* 30: 293-298.
1575. Whelan EDP & Hart GE 1988 A spontaneous translocation that confers wheat curl mite resistance from decaploid *Agropyron elongatum* to common wheat. *Genome* 30: 289-292.
1576. Whelan EDP & Thomas JB 1989 Chromosomal location in common wheat of a gene (*Cmc1*) from *Aegilops squarrosa* that conditions resistance to colonisation by the leaf curl mite. *Genome* 32: 1033-1036.
1577. Wiggin HC 1955 Monosomic analysis of stem rust reaction and awn expression in Kentana 52 wheat. *Journal of Heredity* 46: 239-242.
1578. William MDHM, Pena RJ & Mujeeb-Kazi A 1993 Seed protein and isozyme variations in *Triticum tauschii* (*Aegilops squarrosa*). *Theoretical and Applied Genetics* 87: 257-263.
1579. Williams KJ, Fisher JM & Langridge P 1994 Identification of RFLP markers linked to the cereal cyst nematode resistance gene (*Cre*) in wheat. *Theoretical and Applied Genetics* 89: 927-930.
1580. Williams KJ, Fisher JM & Langridge P 1996 Development of a PCR-based allele-specific assay from an RFLP probe linked to resistance to cereal cyst nematode in wheat. *Genome* 39: 798-801.
1581. Williams ND & Kaveh H 1976 Relationships of genes for reaction to stem rust from 'Marquis' and 'Reliance' wheat to other *Sr* genes. *Crop Science* 16: 561-564.
1582. Williams ND & Maan SS 1973 Telosomic mapping of genes for resistance to stem rust of wheat. Proceedings of the 4th International Wheat Genetics Symposium Columbia, Missouri, USA (Sears ER & Sears LMS eds.): 765-770.
1583. Williams ND, Joppa LR, Duysen ME & Freeman TP 1983 Monosomic analysis of an EMS-induced chlorina mutation in wheat. Proceedings of the 6th International Wheat Genetics Symposium, Kyoto, Japan (Sakamoto S. ed.): 303-306.
1584. Williamson JD, Quatrano RS & Cumings AC 1985 Em polypeptide and its messenger RNA levels are modulated by ABA during embryogenesis in wheat. *European Journal of Biochemistry* 152: 501-507.
1585. Williamson MS, Ford J & Kreis M 1988 Molecular cloning of two isoforms of chymotrypsin inhibitor 1 (CI-1) from barley endosperm and their expression in normal and mutant barleys. *Plant Molecular Biology* 10: 521-535.

1586. Wilson RE 1985 Inheritance of resistance to *Septoria tritici* in wheat. *In: Septoria in Cereals, Proceedings of Workshop, Montana State University, Bozeman, Montana, USA, 1983, (Scharen AL ed.): 33-35.*
1587. Winzeler M, Winzeler H & Keller B 1995 Endopeptidase polymorphism and linkage of the *Ep-D1c* null allele with the *Lr19* leaf-rust-resistance gene in hexaploid wheat. *Plant Breeding* 114: 24-28.
1588. Wise RP, Rohde W & Salamini F 1990 Nucleotide sequence of the Bronze-1 homologous gene from *Hordeum*. *Plant Molecular Biology* 14: 277-279.
1589. Wolf G & Rimpau J 1979 Structural and regulatory genes for phosphodiesterase in wheat. *Proceedings of the 5th International Wheat Genetics Symposium, New Delhi, India (Ramanujam S ed.) Vol2: 705-712.*
1590. Wolf G, Rimpau J & Lelley T 1977 Localization of structural and regulatory genes for phosphodiesterase in wheat (*Triticum aestivum*). *Genetics* 86: 597-605.
1591. Wolfe MS 1967 Physiologic specialization of *Erysiphe graminis* f. sp. *tritici* in the United Kingdom, 1964-5. *Transactions of the British Mycological Society* 50: 631-640.
1592. Wolfe MS & Wright SE 1972 Annual Report, Plant Breeding Institute Cambridge, 1971: 142-143.
1593. Woo SC & Konzak CF 1969 Genetic analysis of short culm mutants induced by ethyl methane sulphonate in *Triticum aestivum* L. *In: Induced Mutations in Plants: Proceedings of the IAEA/FAO Symposium on the Nature, Induction and Utilization of Mutations in Plants, Pullman, Washington, USA, IAEA: 551-555.*
1594. Worland AJ 1995 Personal communication.
1595. Worland AJ & Law CN 1980 The genetics of hybrid dwarfing in wheat. *Zeitschrift fur Pflanzenzuchtung* 85: 28-39.
1596. Worland AJ & Law CN 1983 Cytoplasmic variation in wheat. 1982 Annual Report, Plant Breeding Institute Cambridge: 79-80.
1597. Worland AJ & Law CN 1985 Aneuploidy in semidwarf wheat varieties. *Euphytica* 34: 317-327.
1598. Worland AJ & Law CN 1986 Genetic analysis of chromosome 2D of wheat I. The location of genes affecting height, day-length insensitivity, hybrid dwarfism and yellow-rust resistance. *Zeitschrift fur Pflanzenzuchtung* 96: 331-345.
1599. Worland AJ & Petrovic S 1988 The gibberellic acid insensitive dwarfing gene from the variety Saitama 27. *Euphytica* 38: 55-63.
1600. Worland AJ & Sayers EJ 1995 *Rht1* (*B. dw*), an alternative allelic variant for breeding semi-dwarf wheat varieties. *Plant Breeding* 114: 397-400.
1601. Worland AJ, Law CN & Parker BB 1984 Alternative semi-dwarfing genes. Annual Report, Plant Breeding Institute Cambridge, 1983: 59-61.
1602. Worland AJ, Law CN & Shakoor A 1980 The genetical analysis of an induced height mutant in wheat. *Heredity* 45: 61-71.
1603. Worland AJ, Law CN, Hollins TW, Koebner RMD & Guira A 1988 Location of a gene for resistance to eyespot (*Pseudocercospora herpotrichoides*) on chromosome 7D of bread wheat. *Plant Breeding* 101: 43-51.
1604. Worland AJ, Petrovic S & Law CN 1988 Genetic analysis of chromosome 2D of wheat II. The importance of this chromosome to Yugoslavian varieties. *Plant Breeding* 100: 247-259.
1605. Worland AJ, Sayers EJ & Borner A 1994 The genetics and breeding potential of *Rht12*, a dominant dwarfing gene in wheat. *Plant Breeding* 113: 187-196.

1606. Worland AJ 1986 Gibberellic acid insensitive dwarfing genes in southern European wheats. *Euphytica* 35: 857-866.
1607. Wrigley CW & Shepherd KW 1973 Electrofocusing of grain proteins from wheat genotypes. *Annals of the New York Academy of Science* 209: 154-162.
1608. Xia XC, Hsam SLK, Stephan U, Yang TM & Zeller FJ 1995 Identification of powdery-mildew-resistance genes in common wheat (*Triticum aestivum* L.). VI. Wheat cultivars grown in China. *Plant Breeding* 114: 175-175.
1609. Xie DX, Devos KM, Moore G, & Gale MD 1993 RFLP-based genetic maps of the homoeologous group 5 chromosomes of bread wheat (*Triticum aestivum* L.). *Theoretical and Applied Genetics* 87: 70-74.
1610. Xin ZY, Johnson R, Law CN & Worland AJ 1984 A genetic analysis of genes for yellow rust resistance in the winter wheat variety Feng-Kang 13. *Acta Agronomica Sinica* 10: 217-222.
1611. Xin ZY, Law CN & Worland AJ 1988 Studies of the effects of the vernalization responsive genes on the chromosomes of homoeologous group 5 of wheat. *Proceedings of the 7th International Wheat Genetics Symposium, IPSR, Cambridge, UK (Miller TE & Koebner RMD eds.): 675-680.*
1612. Yamada T 1989 Identification of GA-insensitive *Rht* genes in Japanese modern varieties and landraces of wheat. *Euphytica* 43: 53-57.
1613. Yamada T 1990 Classification of GA response, *Rht* genes and culm length in Japanese varieties and land races of wheat. *Euphytica* 50: 221-239.
1614. Yamamori M 1994 An N-band marker for gene *Lr18* for resistance to leaf rust in wheat. *Theoretical and Applied Genetics* 89: 643-646.
1615. Yamamori M & Endo TR 1996 Variation of starch granule proteins and chromosome mapping of their coding genes in common wheat. *Theoretical and Applied Genetics* 93: 275-281.
1616. Yamamori M, Nakamura T & Nagamine T 1995 Polymorphism of two waxy proteins in the emmer group of tetraploid wheat, *Triticum dicoccoides*, *T. dicoccum*, and *T. durum*. *Plant Breeding* 114: 215-218.
1617. Yamamori M, Nakamura T, Endo TR & Nagamine T 1994 Waxy protein deficiency and chromosomal location of coding genes in common wheat. *Theoretical and Applied Genetics* 89: 178-184.
1618. Yang ZJ & Ren ZL 1996 Chromosome location of a new gene for resistance to powdery mildew in wheat (*Triticum aestivum* L.). Manuscript.
1619. Yen F, Evans LE & Larter EN 1969 Monosomic analysis of fertility restoration in three restorer lines of wheat. *Canadian Journal of Genetics and Cytology* 11: 531-546.
1620. Yu MQ, Jahier J & Person-Dedryver F 1992 Genetics of two mechanisms of resistance to *Meloidogyne naasi* (Franklin) in an *Aegilops variabilis* Eig accession. *Euphytica* 58: 267-273.
1621. Yu MQ, Person-Dedryver F & Jahier J 1990 Resistance to root knot nematode, *Meloidogyne naasi* (Franklin) transferred from *Aegilops variabilis* Eig to bread wheat. *Agronomie* 6: 451-456.
1622. Zadoks JC 1961 Yellow rust on wheat. Studies on epidemiology and physiological specialization. *Journal Pl. Ziekten* 67: 69-256.
1623. Zeller FJ 1973 1B/1R wheat-rye chromosome substitutions and translocations. *Proceedings of the 4th International Wheat Genetics Symposium, Columbia, Missouri, USA (Sears ER & Sears LMS eds.): 209-221.*

1624. Zeller FJ & Fuchs E 1983 (Cytologie und Kronkheitsresistenz einer 1A/1R-und meherer 1B/1R-Weizen-Roggen-Translocationsorten). *Zeitschrift fur Pflanzenzuchtung* 90: 284-296.
1625. Zeller FJ & Hsam SLK 1996 Chromosomal location of a gene suppressing powdery mildew resistance genes *Pm8* and *Pm17* in common wheat (*Triticum aestivum* L. em. Thell.). *Theoretical and Applied Genetics* 93: 38-40.
1626. Zeller FJ & Oppitz K 1977 (The localization of the gene *SrEC* for stem rust resistance in the wheat Etoile de Choisy using monosomic analysis). *Zeitschrift fur Pflanzenzuchtung* 78: 79-82.
1627. Zeller FJ & Sastrosumarjo S 1972 (The cytology of the wheat variety Weique (*T. aestivum* L.)). *Zeitschrift fur Pflanzenzuchtung* 68: 312-321.
1628. Zeller FJ, Lutz J & Stephan U 1993 Chromosome location of genes for resistance to powdery mildew in common wheat (*Triticum aestivum* L.).1. *Mlk* and other alleles at the *Pm3* locus. *Euphytica* 68: 223-229.
1629. Zeller FJ, Lutz J, Reimlein EI, Limpert E & Koenig J 1993 Identification of powdery mildew resistance genes in common wheat (*Triticum aestivum* L.) II. French cultivars. *Agronomie* 13: 201-207.
1630. Zeven AC 1965 First supplementary list of genotypes of hybrid necrosis of wheat varieties. *Euphytica* 14: 239-243.
1631. Zeven AC 1967 Second supplementary list of genotypes of hybrid necrosis of wheat varieties. *Euphytica* 16: 18-22.
1632. Zeven AC 1968 Third supplementary list of wheat varieties classified according to their genotype for hybrid necrosis. *Euphytica* 17: 46-53.
1633. Zeven AC 1969 Fourth supplementary list of wheat varieties classified according to their genotype for hybrid necrosis. *Euphytica* 18: 43-57.
1634. Zeven AC 1969 Tom Pouce Blanc and Tom Pouce Barbu Rouge, two *Triticum aestivum* sources of very short straw. *Wheat Information Service* 29: 8-9.
1635. Zeven AC 1971 Fifth supplementary list of wheat varieties classified according to their genotype for hybrid necrosis and geographical distribution of *Ne*-genes. *Euphytica* 20: 239-254.
1636. Zeven AC 1972 Determination of the chromosome and its arm carrying the *Ne1*-locus of *Triticum aestivum* L., Chinese Spring and the *Ne1*-expressivity. *Wheat Information Service* 33-34: 4-6.
1637. Zeven AC 1973 Sixth supplementary list of wheat varieties classified according to their genotype for hybrid necrosis and geographical distribution of *Ne*-genes. *Euphytica* 22: 618-632.
1638. Zeven AC 1976 Seventh supplementary list of wheat varieties classified according to their genotype for hybrid necrosis and geographical distribution of *Ne*-genes. *Euphytica* 25: 255-276.
1639. Zeven AC 1981 Eighth supplementary list of wheat varieties classified according to their genotype for hybrid necrosis. *Euphytica* 30: 521-539.
1640. Zeven AC 1983 The character brown ear of wheat: A review. *Euphytica* 32: 299-310.
1641. Zeven AC 1985 The genetics of auricle colour in wheat (*Triticum aestivum* L.): A review. *Euphytica* 34: 233-236.
1642. Zeven AC 1987 Crossability percentages of some 1400 bread wheat varieties and lines with rye. *Euphytica* 36: 299-319.
1643. Zeven AC 1991 Wheats with purple and blue grains a review. *Euphytica* 56: 243-258.

1644. Zeven AC Personal communication.
1645. Zeven AC & Knott DR Personal communication.
1646. Zeven AC & van Heemert C 1970 Germination of pollen of weed rye (*Secale segetale* L.) on wheat (*Triticum aestivum* L.) stigmas and the growth of pollen tubes. *Euphytica* 19: 175-179.
1647. Zhang HB & Dvorak J 1990 Characterization and distribution of an interspersed repeated nucleotide sequence from *Lophopyrum elongatum* and mapping of a segregation distortion factor with it. *Genome* 33: 927-936.
1648. Zhang HT & Knott DR 1993 Inheritance of adult plant resistance to leaf rust in six durum wheat cultivars. *Crop Science* 33: 694-697.
1649. Zhang YL, Luo MC, Yen C & Yang JL 1992 Chromosome location of a new crossability gene in common wheat. *Wheat Information Service* 75: 36-40.
1650. Zhao XC, Batey IL, Sharp PJ, Crosbie G, Barclay I, Wilson R, Morell MK & Appels R 1998 A single genetic locus associated with starch granule properties and noodle quality in wheat. *Journal of Cereal Science* 27: 7-13.
1651. Zhong GY & Qualset CO 1993 Allelic diversity of high-molecular-weight glutenin protein subunits in natural populations of *Dasypyrum villosum* (L.) Candargy. *Theoretical and Applied Genetics* 86: 851-858. H
9901. Dubcovsky J, Lukaszewski AJ, Echaide M, Antonelli EF & Porter DR 1998 Molecular characterization of two *Triticum speltoides* interstitial translocations carrying leaf rust and greenbug resistance genes. *Crop Science* 38: 1655-1660.
9902. Kosner J & Pankova K 1998 The detection of allelic variation of the recessive *Vrn* loci of winter wheat. *Euphytica* 101: 9-16.
9903. Kato K, Miura H, Akiyama M, Kuroshima M & Sawada S 1998 RFLP mapping of the three major genes, *Vrn1*, *Q*, and *B1*, on the long arm of chromosome 5A of wheat. *Euphytica* 101: 91-95.
9904. Fahima T, Sun GL, Chaque V, Korol A, Grama A, Ronin Y & Nevo E 1997 Use of the near isogenic lines approach to identify molecular markers linked to the *Yr15* stripe rust resistance gene of wheat. *Israel Journal of Plant Science* 45: 262.
9905. Liu JQ & Kolmer JA 1998 Genetics of stem rust resistance in wheat cultivars Pasqua and AC Taber. *Phytopathology* 88: 171-176.
9906. Eremova TT, Maystrenko OI, Arbuzova VS & Laikova LI 1998 Genetic analysis of glume colour in common wheat cultivars from the former USSR. *Euphytica* 102: 211-218.
9907. Klindworth DL, Williams ND & Joppa LR 1990 Chromosomal location of genes for supernumerary spikelet in tetraploid wheat. *Genome* 33: 515-520.
9908. Peng ZS, Deng CL, Yen C & Yang JL 1998 Genetic control of supernumary spikelet in common wheat line LYB. *Wheat Information Service* 86: 6-12.
9909. Peng Z-S, Yen C & Yang J-L 1998 Genetic control of oligo-culms in common wheat. *Wheat Information Service* 86: 19-24.
9910. Demeke T, Hucl P, Nair RB, Nakamura T & Chibbar R 1997 Evaluation of Canadian and other wheats for waxy proteins. *Cereal Chemistry* 74: 442-44.
9911. Graybosh RA, Peterson CJ, Hansen LE, Rahman S, Hill A & Skerritt JH 1998 Identification and characterization of U. S. wheats carrying null alleles at the *Wx* loci. *Cereal Chemistry* 75: 162-165.
9912. Miruta H, Tanii S, Nakamura T & Watanabe N 1994 Genetic control of amylose content in wheat endosperm starch and differential effects of three *Wx* genes. *Theoretical and Applied Genetics* 89: 276-280.

9913. Rodriguez-Quijano M, Nieto-Taladriz MT & Carrillo JM 1998 Polymorphism of waxy proteins in Iberian hexaploid wheats. *Plant Breeding* 117: 341-344.
9914. Urbano M, Colaprinio G & Margiotta B 1996 Waxy protein variation in tetraploid and hexaploid wheats. In: C. W. Wrigley (ed), *Gluten* 1996 64-67.
9915. Yamamori M, Nakamura T & Kuroda A 1992 Variation in the content of starch-granule bound protein among several Japanese cultivars of common wheat (*Triticum aestivum* L.). *Euphytica* 64: 215-219.
9916. Yamamori M, Nakamura T, Endo TR & Nagamine T 1994 Waxy protein deficiency and chromosomal location of coding genes in common wheat. *Theoretical and Applied Genetics* 89: 179-184.
9917. Zeng M, Morris CT, Batey I & Wrigley CW 1997 Sources of variation for starch gelatinization, pasting and gelation properties in wheat. *Cereal Chemistry* 74: 63-71.
9918. Marais GF, Horn M & Du Toit F 1994 Intergeneric transfer (rye to wheat) of a gene(s) for Russian wheat aphid resistance. *Plant Breeding* 113: 265-271.
9919. Singh NK, Shepherd KW & McIntosh RA 1990 Linkage mapping of genes for resistance to leaf rust, stem rust and stripe rust and omega-secalins on the short arm of rye chromosome 1R. *Theoretical and Applied Genetics* 80: 609-616.
9920. Blanco A, Bellomo MP, Lotti C, Maniglio T, Pasqualone A, Simeone R, Troccoli A & Di Fonzo N 1998 Genetic mapping of sedimentation values across environments using recombinant inbred lines of durum wheat. *Plant Breeding* 117: 413-417.
9921. Sacco F, Suarez EY & Narango T 1998 Mapping of the leaf rust resistance gene *Lr3* of Sinalocho MA wheat. *Genome* 41: 686-690.
9922. Nieto-Taladriz MT, Rodriguez-Quijano M & Carrillo JM 1998 Biochemical and genetic characterization of a D glutenin subunit encoded at *Glu-B3* locus. *Genome* 41: 215-220.
9923. Gold J, Harder D, Townley-Smith F, Aung T & Procuiner J 1999 Development of a molecular marker for rust resistance genes *Sr39* and *Lr35* in wheat breeding lines. *Electronic Journal of Biotechnology* 'http://www.ejb.org'. 2(1):.
9924. Faris JD, Anderson JA, Francl LJ & Jordahl JG 1997 RFLP mapping of resistance to chlorosis induction by *Pyrenophora tritici-repentis* in wheat. *Theoretical and Applied Genetics* 94: 98-103.
9925. Waldron BL, Moreno-Sevilla B, Anderson JA, Stack RW & Froberg RC 1999 RFLP mapping of QTL for *Fusarium* head blight resistance in wheat. *Crop Science* 39: 805-811.
9926. Boyko EV, Gill KS, Mickelson-Young L, Nasuda S, Raupp WJ, Ziegler JN, Singh S, Hassawi DS, Fritz AK, Namuth D, Lapitan NLV & Gill BS 1999 A high-density genetic linkage map of *Aegilops tauschii*, the D-genome progenitor of bread wheat. *Theoretical and Applied Genetics* 99: 16-26.
9927. Du C & Hart GE 1998 *Triticum turgidum* L.6A and 6B recombinant substitution lines: extended linkage maps and characterization of residual background alien genetic variation. *Theoretical and Applied Genetics* 96: 645-653.
9928. Boyko EV 1999 Personal communication.
9929. Roder MS, Korzun V, Wendehake K, Plaschke J, Tixier M-H, Leroy P & Ganal MW 1998 A microsatellite map of wheat. *Genetics* 149: 2007-2023.
9930. Koval SF & Goncharov NP 1998 Multiple allelism at the *Vrn1* locus of common wheat. *Acta Agronomica Hungarica* 46: 113-119.
9931. Faris JD, Laddomada B & Gill BS 1998 Molecular mapping of segregation distortion loci in *Aegilops tauschii*. *Genetics* 149: 319-327.
9932. Santa-Maria GE, Rubio F, Dubcovsky J & Rodriguez-Navarro A. 1997 The HAK1 gene of

- barley is a member of a large gene family and encodes a high-affinity potassium transporter. *The Plant Cell* 9: 2281-2289.
9933. Kojima T & Ogihara Y 1998 High-resolution RFLP map of the long arm of chromosome 5A in wheat and its synteny among cereals. *Genes and Genetic Systems* 73: 51-58.
9934. Kojima T, Tsujimoto H & Ogihara Y 1997 High-resolution RFLP mapping of the fertility restoration (*Rf3*) gene against *Triticum timopheevi* cytoplasm located on chromosome 1BS of common wheat. *Genes and Genetic Systems* 72: 353-359.
9935. Kojima T, Nagaoka T, Noda K & Oghhara Y 1998 Genetic linkage map of ISSR and RAPD markers in Einkorn wheat in relation to that of RFLP markers. *Theoretical and Applied Genetics* 96: 37-45.
9936. Parker GD, Chalmers KJ, Rathjen AJ & Langridge P 1998 Mapping loci associated with flour colour in wheat (*Triticum aestivum* L.). *Theoretical and Applied Genetics* 97: 238-245.
9937. Nagamine T, Yoshida H & Komae K 1997 Varietal differences and chromosome locations of multiple isoforms of starch branching enzyme in wheat endosperm. *Phytochemistry* 46: 23-26.
9938. Seo YW, Johnson JW & Jarret RL 1997 A molecular marker associated with the *H21* Hessian fly resistance gene in wheat. *Molecular Breeding* 3: 177-181.
9956. Nelson JC, Autrique JE, Fuentes-Davila G & Sorrells ME 1998 Chromosomal location of genes for resistance to Karnal bunt in wheat. *Crop Science* 38: 231-236.
9957. Cadalen T, Sourdille P, Charmet G, Tixier MH, Gay G, Boeuf C, Bernard S, Leroy P & Bernard M 1998 Molecular markers linked to genes affecting plant height in wheat using a doubled-haploid population. *Theoretical and Applied Genetics* 96: 933-940.
9958. Mingeot D & Jacquemin JM 1998 Mapping of RFLP probes characterized for their polymorphism on wheat. *Theoretical and Applied Genetics* 98: 1132-1137.
9959. Blanco A, Bellomo MP, Cenci A, De Giovanni C, D'Ovidio R, Iacono E, Laddomada B, Pagnotta MA, Porceddu E, Sciancalepore A, Simeone R & Tanzarella OA 1998 A genetic linkage map of durum wheat. *Theoretical and Applied Genetics* 97: 721-728.
9960. Flintham JE, Adlam R, Bassoi M, Holdsworth M & Gale MD 2002 Mapping genes for resistance to sprouting damage in wheat. *Euphytica* 126: 39-45
9961. Bailey PC, McKibbin RS, Lenton JR, Holdsworth MJ, Flintham JE & Gale MD 1998 Genetic map locations for orthologous *Vp1* genes in wheat and rice. *Theoretical and Applied Genetics* 98: 977-984.
9962. Worland AJ, Korzun V, Roder MS, Ganai MW & Law CN 1998 Genetic analysis of the dwarfing gene *Rht8* in wheat. Part II. The distribution and adaptive significance of allelic variants at the *Rht8* locus of wheat as revealed by microsatellite screening. *Theoretical and Applied Genetics* 96: 1110-1120.
9964. Worland AJ, Korzun V & Petrovic S 1998 The presence of the dwarfing gene *Rht8* in wheat varieties of the former Yugoslavian republics as detected by a diagnostic molecular marker. *Proc. 2nd Balkan Symposium on Field Crops*. Pp. 51-55.
9965. Qu L-J, Foote TN, Roberts MA, Money TA, Aragon-Alcaide L, Snape JW & Moore G 1998 A simple PCR-based method for scoring the *ph1b* deletion in wheat. *Theoretical and Applied Genetics* 96: 371-375.
9966. Sourdille P, Charmet G, Trottet M, Tixier MH, Boeuf C, Negre S, Barloy D & Bernard M 1998 Linkage between RFLP molecular markers and the dwarfing genes *Rht-B1* and *Rht-D1* in wheat. *Hereditas* 128: 41-46.
9968. Myburg AA, Cawood M, Wingfield BD & Botha A-M 1998 Development of RAPD and SCAR markers linked to the Russian wheat aphid resistance gene *Dn2* in wheat. *Theoretical*

- and Applied Genetics 96: 1162-1169.
9969. Sarma RN, Gill GS, Sasaki T, Galiba G, Sutka J, Laurie D & Snape JW 1998 Comparative mapping of the wheat chromosome 5A *Vrn-A1* region with rice and its relationship to QTL for flowering time. *Theoretical and Applied Genetics* 97: 103-109.
9970. Chen Q-F, Yen C & Yang J-L 1998 Chromosome location of the gene for brittle rachis in the Tibetan weederace of common wheat. *Genetic Resources and Crop Evolution* 45: 407-410.
9972. Riechers DE, Kleinhofs A, Irzyk GP & Jones SS 1998 Chromosomal location and expression of a herbicide safener-regulated glutathione S-transferase gene in *Triticum aestivum* and linkage relations in *Hordeum vulgare*. *Genome* 41: 368-372.
9973. Riechers DE, Irzyk GP, Fuerst EP & Jones SS 1998 Nucleotide sequence of a cDNA encoding a safener-induced glutathione S-transferase (accession No. AF004358) from *Triticum tauschii* (PGR 97-110). *Plant Physiology* 114: 1568-1568.
9974. Van Campenhout S, Aert R & Volckaert G 1998 Orthologous DNA sequence variation among 5S ribosomal RNA gene spacer sequences on homoeologous chromosomes 1B, 1D, and 1R of wheat and rye. *Genome* 41: 244-255.
9975. Briney A, Wilson R, Potter RH, Barclay I, Crosbie G, Appels R & Jones MGK 1998 A PCR-based marker for selection of starch and potential noodle quality in wheat. *Molecular Breeding* 4: 427-433.
9976. Van Campenhout S, Lagi L, Vander Stappen J & Volckaert G 1998 Characterisation of type-I thionin loci from the A, B, D and R genomes of wheat and rye. *Theoretical and Applied Genetics* 96: 80-86.
9981. Metakovsky EV Personal communication.
9982. Metakovsky EV, Branlard G, Chernakov VM, Upelniak VP, Redaelli R & Pogna NE 1997 Recombination mapping of some chromosome 1A-, 1B-, 1D- and 6B-controlled gliadins and low-molecular-weight glutenin subunits in common wheat. *Theoretical and Applied Genetics* 94: 788-795.
9983. Metakovsky EV, Chernakov VM, Upelniak VP, Redaelli R, Dardevet M, Branlard G & Pogna NG 1996 Recombination mapping of minor omega-gliadin-coding loci on chromosome 1A of common wheat: A revision. *Journal of Genetics and Breeding* 50: 277-286.
9984. Metakovsky EV, Davidov SD, Chernakov VM & Upelniak VP 1993 Gliadin allele identification in common wheat. III. Frequency of occurrence and appearance of spontaneous mutations at the gliadin-coding loci. *Journal of Genetics and Breeding* 47: 221-236.
9985. Metakovsky EV, Gomez M, Vazquez JF & Carrillo JM 2000 High genetic diversity of Spanish common wheats as judged from gliadin alleles *Plant Breeding* 119: 37-42.
9986. Metakovsky EV, Pogna NE, Biancardi AM & Redaelli R 1994 Gliadin allele composition of common wheat cultivars grown in Italy. *Journal of Genetics and Breeding* 48: 55-66.
9987. Redaelli R, Metakovsky EV, Davidov SD & Pogna NE 1994 Two-dimensional mapping of gliadins using biotypes and null mutants of common wheat cultivar Saratovskaya 29. *Hereditas* 121: 131-137.
9988. Vaccino P & Metakovsky EV 1995 RFLP patterns of gliadin alleles in *Triticum aestivum* L. : implications for analysis of the organization and evolution of complex loci. *Theoretical and Applied Genetics* 90: 173-181.
9989. D'Ovidio R, Masci S, Porceddu E & Kasarda DD 1997 Duplication of the Bx7 high-molecular-weight glutenin subunit gene in bread wheat (*Triticum aestivum* L.) cultivar 'Red River 68'. *Plant Breeding* 116: 525-531.



9990. Watanabe N. 1999 Genetic control of the long glume phenotype in tetraploid wheat by homoeologous chromosomes. *Euphytica* 106: 39-43.
9991. Romero D, Delibes A, Lopez Brana I, Mena M, Duce A & Andres MF 1994 Studies of the chromosome location of a gene conferring resistance to *Heterodera avenae* transferred from the wild grass *Aegilops ventricosa* to hexaploid wheat. Proc. 22nd International Nematology Symposium, Gent, Belgium (Abstr.).
0001. Rong JK, Millet E, Manisterski J & Feldman M 2000 A new powdery mildew resistance gene: introgression from wild emmer into common wheat and RFLP-based mapping. *Euphytica* 115: 121-126.
0002. Jarve K, Peusha HO, Tsymbalova J, Tamm S, Devos KM & Enno TM 2000 Chromosomal location of a *T. timopheevii*-derived powdery mildew resistance gene transferred to common wheat. *Genome* 43: 377-381.
0003. Peng JH, Fahima T, Roder MS, Li YC, Dahan A, Grama A, Ronin YI, Korol AB & Nevo E 1999 Microsatellite tagging of the stripe rust resistance gene *YrH52* derived from wild emmer wheat, *Triticum dicoccoides*, and suggestive negative crossover interference on chromosome 1B. *Theoretical and Applied Genetics* 98: 862-872.
0004. Labuschagne M & Maartens H 1999 The use of low molecular weight glutenin subunits to distinguish between wheat cultivars with and without resistance to the Russian wheat aphid, *Diuraphis noxia*. *Plant Breeding* 118: 91-92.
0005. Bai GH, Kolb FL, Shaner G & Domier LL 1999 Amplified fragment length polymorphism markers linked to a major quantitative trait locus controlling scab resistance in wheat. *Phytopathology* 89: 343-348.
0006. Mesterhazy A, Bartok T, Mirocha CG & Komoroczy R 1999 Nature of wheat resistance to Fusarium head blight and the role of deoxynivalenol for breeding. *Plant Breeding* 118: 97-110.
0007. Anderson JA, Effertz RJ, Faris JD, Franc L, Meinhardt SW & Gill BS 1999 Genetic analysis of sensitivity to a *Pyrenophora tritici-repentis* necrosis-inducing toxin in durum and common wheat. *Phytopathology* 89: 293-297.
0008. Graybosch RA, Lee JH, Peterson CJ, Porter DR & Chung OK 1999 Genetic, agronomic and quality comparisons of two IAL. ARS wheat-rye chromosomal translocations. *Plant Breeding* 118: 125-130.
0009. Jahier J, Tanguy AM, Abelard P & Rivoal. R 1996 Utilization of deletions to localize a gene for resistance to cereal cyst nematode, *Heterodera avenae*, on an *Aegilops ventricosa* chromosome. *Plant Breeding* 115: 282-284.
0010. Boshoff WPH & Pretorius ZA 1999 A new pathotype of *Puccinia striiformis* f. sp. *tritici* on wheat in South Africa. *Plant Disease* 83: 591.
0011. Hartl L, Mohler V, Zeller FJ, Hsam SLK & Schweizer G 1999 Identification of AFLP markers closely linked to the powdery mildew resistance genes *Pm1c* and *Pm4a* in common wheat (*Triticum aestivum* L.). *Genome* 42: 322-329.
0012. Paull JG, Chalmers KJ, Karakousis A, Kretschmer J, Manning S & Langridge P 1998 Genetic diversity in Australian wheat varieties and breeding material based on RFLP data. *Theoretical Applied Genetics* 96: 435-446.
0013. Singh RP, Chen WQ & He ZH 1999 Leaf rust resistance of spring, facultative and winter wheat cultivars from China. *Plant Disease* 83: 644-651.
0014. Liu Z, Sun Q, Ni Z & Yang T 1999 Development of SCAR markers linked to the *Pm21* gene conferring resistance to powdery mildew in common wheat. *Plant Breeding* 118: 215-219.

0015. Prasad M, Varshney RK, Kumar A, Bolyon HS, Sharma PC, Edwards KJ, Singh H, Dhaliwal HS, Roy JK & Gupta PK 1999 A microsatellite marker associated with a QTL for grain protein content on chromosome 2DL of bread wheat. *Theoretical and Applied Genetics* 99: 341-345.
0016. Chantret N, Pavoine MT & Doussinault G 1999 The race specific resistance gene to powdery mildew, *MIRE*, has a residual effect on adult plant resistance of winter wheat line RE714. *Phytopathology* 89: 533-539.
0017. Liu DC, Yen C, Yang JL, Zhang YL & Lan XJ 1999 The chromosomal locations of high crossability genes in tetraploid wheat *Triticum turgidum* cv. Ailanmai native to Sichuan, China. *Euphytica* 108: 79-82.
0018. Miura H, Araki E & Tarui S 1999 Amylose synthesis capacity of the three Wx genes of wheat cv. Chinese Spring. *Euphytica* 108: 91-95.
0019. Peng JR, Richards DE, Hartley NM, Murphy GP, Devos KM, Flintham JE, Beales J, Fish LJ, Worland AJ, Pelica F, Duralalagaraja Sudhakar, Christou P, Snape JW, Gale MJ & Harberd NP. 1999 'Green revolution' genes encode mutant gibberellin response modulators. *Nature* 400: 256-261.
0020. Fowler DB, Limin AE & Ritchie JT 1999 Low temperature tolerance in cereals: Model and genetic interpretation. *Crop Science* 39: 626-633.
0021. Espitia-Rangel E, Baenziger PS, Graybosch RA, Shelton DR, Moreno-Sevilla B & Peterson CJ 1999 Agronomic performance and stability of 1A vs. 1AL.1RS genotypes derived from winter wheat 'Nekota'. *Crop Science* 39: 643-648.
0022. Peusha H, Enno T & Pruliin O 2000 Chromosomal location of powdery mildew resistance genes and cytogenetic analysis of meiosis in common wheat cultivar Meri. *Hereditas* 132: 29-34.
0023. Miura H, Nakagawa M & Worland AJ 1999 Control of ear emergence time by chromosome 3A of wheat. *Plant Breeding* 118: 85-87.
0024. Worland AJ 1999 Personal communication.
0025. Shah MM, Gill KS, Baenziger PS, Yen Y, Kaeppeler SM & Ariyaratna HM 1999 Molecular mapping of loci for agronomic traits on chromosome 3A of bread wheat. *Crop Science* 39: 1728-1732.
0026. Kato K, Miura H & Sawada S 1999 Detection of an earliness *per se* quantitative trait locus in the proximal region of wheat chromosome 5AL. *Plant Breeding* 118: 391-394.
0027. Yamamori M & Auyinh NT 2000 Differential effects of *Wx-A1*, *-B1* and *-D1* protein deficiencies on apparent amylose content and starch pasting properties in common wheat. *Theoretical and Applied Genetics* 100: 32-38.
0028. Peusha H, Hsam SLK, Enno T & Zeller FJ 1996 Identification of powdery mildew resistance genes in common wheat (*Triticum aestivum* L. em. Thell) VIII. Cultivars and advanced breeding lines grown in Finland. *Heredity*. 124: 91-93.
0029. McIntosh RA, Devos KM, Dubcovsky J & Rogers WJ 2000 Catalogue of gene symbols for wheat: 2000 Supplement. *Wheat Information Service* 91: 33-70
0030. Salina E, Borner A, Leonoval I, Korzun V, Laikova L, Maystrenko O & Roder MS 2000 Microsatellite mapping of the induced sphaerococcoid mutation genes in *Triticum aestivum*. *Theoretical and Applied Genetics* 100 : 686-689.
0031. Messmer MM, Keller M, Zanetti S & Keller B 1999 Genetic linkage map of a wheat x spelt cross. *Theoretical and Applied Genetics* 98: 1163-1170.
0032. Roy JK, Prasad M, Varshney RK, Balyan HS, Blake TK, Dhaliwal HS, Singh H, Edwards KJ & Gupta PK 1999 Identification of a microsatellite on chromosomes 6B and a STS on 7D of

- bread wheat showing an association with preharvest sprouting tolerance. *Theoretical and Applied Genetics* 99: 336-340.
0033. Bomer A, Roder MS, Unger O & Meinel A 2000 The detection and molecular mapping of a major gene for non specific adult plant disease resistance against stripe rust (*Puccinia striiformis*) in wheat. *Theoretical and Applied Genetics* 100: 1095-1099.
0034. Sarma RN, Fish LJ, Gill BS & Snape JW 2000 Physical characterisation of the homoeologous group 5 chromosomes of wheat in terms of rice linkage blocks, and physical mapping of some important genes. *Genome* 43: 191-198.
0035. Korzun V, Roder MS, Wendehake K, Pasqualone A, Lotti C, Ganal MW & Blanco A 1999 Integration of dinucleotide microsatellites from hexaploid bread wheat into a genetic linkage map of durum wheat. *Theoretical and Applied Genetics* 98: 1202-1207.
0036. Cenci A, DOvidio R, Tanzarella OA, Ceoloni C & Porceddu E 1999 Identification of molecular markers linked to PM13, an *Aegilops longissima* gene conferring resistance to powdery mildew in wheat. *Theoretical and Applied Genetics* 98: 448-454.
0037. Somers D 2000 Personal communication.
0038. Blake TK, Kadyrzhanova D, Shepherd KW, Islam AKMR, Langridge PL, McDonald CL, Erpelding J, Larson S, Blake NK & Talkbert LE 1996 STS-PCR markers appropriate for wheat-barley introgression. *Theoretical and Applied Genetics* 93: 826-832.
0039. Roder M 1999 Personal communication.
0040. Effertz RJ, Anderson JA & Francl LJ 1998 QTLs associated with resistance to chlorosis induction by *Pyrenophora tritici-repentis* in adult wheat 20: 438-439.
0041. Li Z, Rahman S, KosarHashemi B, Mouille G, Appels R & Morell MK 1999 Cloning and characterization of a gene encoding wheat starch synthase I. *Theoretical and Applied Genetics* 98: 1208-1216.
0042. Li ZY, Chu XS, Mouille G, Yan LL, KosarHashemi B, Hey S, Napier J, Shewry P, Clarke B, Appels R, Morell MK & Rahman S 1999 The localization and expression of the class II starch synthases of wheat. *Plant Physiology* 120: 1147-1155.
0043. Devos KM 2000 Personal communication.
0044. Robert O, Abelard C & Dedryver F 1999 Identification of molecular markers for the detection of the yellow rust resistance gene *Yr17* in wheat. *Molecular Breeding* 5: 167-175.
0045. Seyfarth R, Feuillet C, Schachermayr G, Winzeler M & Keller B 1999 Development of a molecular marker for the adult plant leaf rust resistance gene *Lr35* in wheat. *Theoretical and Applied Genetics* 99: 554-560.
0046. Simonetti MC, Bellomo MP, Laghetti G, Perrino P, Simeone R & Blanco A 1999 Quantitative trait loci influencing free-threshing habit in tetraploid wheats. *Genetic Resources and Crop Evolution* 46: 267-271.
0047. Araki E, Miura H & Sawada S 1999 Identification of genetic loci affecting amylose content and agronomic traits on chromosome 4A of wheat. *Theoretical and Applied Genetics* 98: 977-984.
0048. Lagudah ES 2000 Personal communication.
0050. Messmer MM, Seyfarth R, Keller M, Schachermayr G, Winzeler M, Zanetti S, Feuillet C & Keller B 2000 Genetic analysis of durable leaf resistance in winter wheat. *Theoretical and Applied Genetics* 100: 419-431
0051. Keller M, Keller B, Schachermayr G, Winzeler M, Schmid JE, Stamp P & Messmer MM 1999 Quantitative trait loci for resistance against powdery mildew in a segregating wheat x spelt population. *Theoretical and Applied Genetics* 98: 903-912.
0052. Keller M, Karutz C, Schmid JE, Stamp P, Winzeler M, Keller B & Messmer MM 1999

- Quantitative trait loci for lodging resistance in a segregating wheat x spelt population. *Theoretical and Applied Genetics* 98: 1171-1182.
0053. Shimosaka E, Sasanuma T & Handa H 1999 A wheat cold-regulated cDNA encoding an early light-inducible protein (ELIP): Its structure, expression and chromosomal location. *Plant Cell Physiology* 40: 319-325.
0054. Wu GH, Wilen RW, Robertson AJ & Gusta LV 1999 Isolation, chromosomal localization, and differential expression of mitochondrial manganese superoxide dismutase and chloroplastic copper zinc superoxide dismutase genes in wheat. *Plant Physiology* 120: 513-520.
0055. Biagetti M, Vitelozzi F & Ceoloni C 1999 Physical mapping of wheat - *Aegilops longissima* breakpoints in mildew-resistant recombinant lines using FISH with highly repeated and low copy DNA probes. *Genome* 42: 1013-1019.
0056. Maystrenko OI, Laikova LI, Arbuzova VS & Melnik VM 1998 The chromosome location of the *S1*, *S2* and *S3* genes of induced sphaerococoid mutations in common wheat. *EWAC Newsletter* 127-130.
0057. Law CN 1996 The genetic control of daylength response in wheat. *In* Manipulation of Flowering (Atheston JG ed.) Butterworth, London pp. 225-240.
0058. Worland AJ 1996 The influence of flowering time genes on environmental adaptability in European wheats. *Euphytica* 89: 49-57
0059. Ma ZQ, Roder M & Sorrells ME 1996 Frequencies and sequence characteristics of di-, tri-, and tetra- nucleotide microsatellites in wheat. *Genome* 39: 123-130.
0060. Anonymous 2000 GrainGenesdatabase (<http://ars-genome.cornell.edu/cgi-bin/WebAce/webace?db=graingenes>).
0061. Rebmann G, Mauch F & Dudler R 1991 Sequence of a wheat cDNA encoding a pathogen-induced thaumatin-like protein. *Plant Molecular Biology* 17: 282-285.
0062. Worland AJ, Borner A, Korzun V, Li, WM, Petrovic S & Sayers EJ 1998 The influence of photoperiod genes on the adaptability of European winter wheats. *Euphytica* 100: 358-394.
0063. Snape JW, Laurie DA & Worland AJ 1998 Understanding the genetics of abiotic stress responses in cereals and possible strategies for their amelioration. *Aspects of Applied Biology* 50: 9-14.
0064. Ciaffi M, Dominici L, Tanzarella OA & Porceddu E 1999 Chromosomal assignment of gene sequences coding for protein disulphideisomerase (PDI) in wheat. *Theor Appl Genet* 98: 405-410.
0065. Deal KR, Goyal S & Dvorak J 1999 Arm location of *Lophopyrum elongatum* genes affecting  $K^+/Na^+$  selectivity under salt stress. *Euphytica* 108: 193-198.
0066. Arbuzova VS, Maystrenko OI & Popovic OM 1998 Development of near isogenic lines of the common wheat cultivar 'Saratovskaya 29' *Cereal Research Communications* 26: 39-46.
0067. Kato K, Miura H & Sawada S 1999 Comparative mapping of the wheat *Vrn-A1* region with the rice *Hd-6* region. *Genome* 42: 204-209.
0068. Kato K, Miura H & Sawada S 1999 QTL mapping of genes controlling ear emergence time and plant height on chromosome 5A of wheat. *Theoretical and Applied Genetics* 98: 472-477.
0069. Liu DJ, Liu JY, Toa WJ & Chen PD 1998 Molecular markers and breeding wheat for powdery mildew resistance. *Proceedings 9th International Wheat Genetics Symposium, Volume 3* (Slinkard AE ed). University of Saskatchewan pp. 128-131.
0070. Sourdille P, Robe P, Tixier MH, Doussinault G, Pavoine MT & Bernard M 1999 Location of *Pm3g*, a powdery mildew resistance allele in wheat, by using a monosomic analysis and by

- identifying associated molecular markers. *Euphytica* 110: 193-198.
0071. Mesfin A, Frohberg RC & Anderson JA 1999 RFLP markers associated with high grain protein from *Triticum turgidum* L. var. *dicoccoides* introgressed into hard red spring wheat. *Crop Science* 39: 508-513.
0072. Mrva K & Mares DJ 1999 Regulation of high pI alpha-amylase synthesis in wheat aleurone by a gene(s) located on chromosome 6B. *Euphytica* 109: 17-23.
0073. Murai J, Taira T & Ohta D 1999 Isolation and characterization of the three Waxy genes encoding the granule-bound starch synthase in hexaploid wheat. *Gene* 234: 71-79.
0074. Udall JA, Souza E, Anderson J, Sorrells ME & Zemetra RS 1999 Quantitative trait loci for flour viscosity in winter wheat. *Crop Science* 39: 238-242.
0075. Vrinten P, Nakamura T & Yamamori M 1999 Molecular characterization of waxy mutations in wheat. *Molecular and General Genetics* 261: 463-471.
0076. Shan X, Blake TK & Talbert LE 1999 Conversion of AFLP markers to sequence-specific PCR markers in barley and wheat. *Theoretical and Applied Genetics* 98: 1072-1078.
0077. Shariflou MR & Sharp PJ 1999 A polymorphic microsatellite in the 3' end of 'waxy' genes of wheat, *Triticum aestivum*. *Plant Breeding* 118: 275-277.
0078. Waldron BL, Moreno-Sevilla B, Anderson JA, Stack RW & Frohberg RC 1999 RFLP mapping of QTL for fusarium head blight resistance in wheat. *Crop Science* 39: 805-811.
0079. Kato K, Miura H, Akiyama M, Kuroshima M & Sawada S 1999 RFLP mapping of the three major genes, *Vrn1*, *Q* and *BI*, on the long arm of chromosome 5A of wheat. *Euphytica* 101: 91-95.
0080. Dubcovsky J 2000 Personal communication.
0081. Weng, Y, Tuleen NA & Hart G 2000 Extended physical maps and a consensus physical map of the homoeologous group-6 chromosomes of wheat (*Triticum aestivum* L. em Thell.) *Theoretical & Applied Genetics* 100: 519-527
0082. Lillemo M & Morris CF 2000 A leucine to proline mutation in puorindoline b is frequently present in hard wheats from Northern Europe. *Theoretical and Applied Genetics* 100: 1100-1107.
0083. Tranquilli G, Lijavetzky D, Muzzi G & Dubcovsky J 1999 Genetic and physical characterization of grain texture-related loci in diploid wheat. *Molecular and General Genetics* 262: 846-850.
0084. Lukaszewski AJ 2000 Manipulation of the 1RS. 1BL translocation in wheat by induced homoeologous recombination. *Crop Science* 40: 216-225.
0085. Saini RG, Kaur M, Singh B, Sharma Shiwani, Nanda GS, Nayar SK, Gupta AK & Nagarajan S. 2002 Genes *Lr48* and *Lr49* for hyposensitive adult plant leaf rust resistance in wheat (*Triticum aestivum*) *Euphytica* 124: 365-370
0086. Bryan GJ, Stephenson P, Collins A, Kirby J, Smith JB & Gale MD 1999 *Theoretical and Applied Genetics* 99: 192-198.
0087. Adlam RE, Flintham JE 1999 Rapid identification of chromosome-specific sequence-tagged-sites in hexaploid wheat, using selective PCR from nullisomic-tetrasomic lines. *Cereal Research Communications* 27: 1-2.
0088. Seyfarth S, Feuillet C & Keller B 1998 Development and characterization of molecular markers for the adult plant leaf rust resistance genes *Lr13* and *Lr35* in wheat. *Proceedings 9<sup>th</sup> International Wheat Genetics Symposium* (Slinkard AE ed) .University of Saskatchewan. Vol 3: pp 154-155
0089. Khan IA 2000 Molecular and agronomic characterization of wheat-*Agropyron intermedium* recombinant chromosomes. *Plant Breeding* 119: 25-29.

0090. Faris JD, Li WL, Liu DJ, Chen PD, Gill BS 1999 Candidate gene analysis of quantitative disease resistance in wheat. *Theoretical & Applied Genetics* 98: 219-225.
0091. Li WL, Faris JD, Chittoor JM, Leach JE, Hulbert S, Liu DJ, Chen PD & Gill BS 1999 Genomic scanning of defence response genes in wheat. *Theoretical and Applied Genetics* 98: 226-233.
0092. Collinge D 2000 Personal Communication.
0093. White F 2000 Personal Communication.
0094. Musket T 2000 Personal Communication.
0095. Hulbert S 2000 Personal Communication.
0096. Muthukrishnan S 2000 Personal Communication.
0097. Morris SW, Vernooij B, Titatam S, Starrett M, Thomas S, Wiltse CC, Frederiksen RA, Bhandhufalck A, Hulbert S & Uknes S 1998 Induced resistance responses in maize. *Molecular Plant-Microbe Interactions* 11: 643-658.
0098. Christensen AB, Gregerson PL, Schroder J & Collinge DB 1998 A chalcone synthase with an unusual substrate preference is expressed in barley leaves in response to UV light and pathogen attack. *Plant Molecular Biology* 37: 849-857.
0099. Christensen AB, Gregersen PL, Olsen CE & Collinge DB 1998 A flavonoid 7-O-methyltransferase is expressed in barley leaves in response to pathogen attack. *Plant Molecular Biology* 36: 219-227.
00100. Gregersen PL, Thordal-Christensen H, Forster H & Collinge DB 1997 Differential gene transcript accumulation in barley leaf epidermis and mesophyll in response to attack by *Blumeria graminis* f. sp. *hordei* (syn. *Erysiphe graminis* f. sp. *hordei*). *Molecular Plant Pathology* 51: 85-97.
00101. Brandt J, Thordal-Christensen H, Vad K, Gregersen PL & Collinge DB 1992 A pathogen-induced gene of barley encodes a protein showing high similarity to a protein kinase regulator. *Plant Journal* 2: 815-820.
00102. Zhou F, Zhang Z, Gregersen PL, Mikkelsen JD, de Neergaard E, Collinge DB & Thordal-Christensen H 1998 Molecular characterization of the oxalate oxidase involved in the response of barley to the powdery mildew fungus. *Plant Physiology* 117: 33-41.
00103. Wei Y, Zhang Z, Andersen CH, Schmelzer E, Gregersen PL, Collinge DB, Smedegaard-Petersen & Thordal-Christensen H 1998 An epidermis/papilla-specific oxalate oxidase-like protein in the defense response of barley attacked by the powdery mildew fungus. *Plant Molecular Biology* 36: 101-112.
00104. Bryngelsson T, Sommer-Knudsen J, Gregersen PL, Collinge DB, Ek B, Thordal-Christensen H 1994 Purification, characterization, and molecular cloning of basic PR-1-type pathogenesis-related proteins from barley. *Molecular Plant-Microbe Interactions* 7: 267-275.
00105. Allaby RG, Banerjee M & Brown TA 1999 Evolution of the high molecular weight glutenin loci of the A, B, D, and G genomes of wheat. *Genome* 42: 296-307.
00106. Lee Y-K, Bekes F, Gupta R, Appels R & Morell MK 1999 The low-molecular-weight glutenin subunit proteins of primitive wheats. I. Variation in A-genome species. *Theoretical and Applied Genetics* 98: 119-125.
00107. Lee Y-K, Ciaffi M, Appels R & Morell MK 1999 The low-molecular-weight glutenin subunit proteins of primitive wheats. II. The genes from A-genome species. *Theoretical and Applied Genetics* 98: 126-134.
00108. Ciaffi M, Lee Y-K, Tamas L, Gupta R, Skerritt J & Appels R 1999 The low-molecular-weight glutenin subunit proteins of primitive wheats. III. The genes from D-genome species. *Theoretical and Applied Genetics* 98: 135-148.

00109. Lee Y-K, Bekes F, Gras P, Ciaffi M, Morell MK & Appels R 1999 The low-molecular-weight glutenin subunit proteins of primitive wheats. IV. Functional properties of products from individual genes. *Theoretical and Applied Genetics* 98: 149-155.
00110. Corbellini M, Empilli S, Vaccino P, Brandolini A, Borghi B, Heun M & Salamini F 1999 Einkorn characterization for bread and cookie production in relation to protein subunit composition. *Cereal Chemistry* 76: 727-733.
00111. Igrejas G, Guedes-Pinto H, Carnide V & Branlard G 1999 The high and low molecular weight glutenin subunits and omega-gliadin composition of bread and durum wheats commonly grown in Portugal. *Plant Breeding* 118: 297-302.
00112. Khelifi D, Branlard G & Bourgoin-Greneche M 1992 Diversity of some D zone omega gliadins of bread wheat as revealed by 2-step A-PAGE/SDS-PAGE technique. *Journal of Genetics and Breeding*. 46: 351-358.
00113. Jackson EA, Morel M-H, Sontag-Strohm T, Branlard G, Metakovsky EV & Redaelli R 1996 Proposal for combining the classification systems of alleles of *Gli-1* and *Glu-3* loci in bread wheat (*Triticum aestivum* L.). *Journal of Genetics and Breeding* 50: 321-336.
00114. Nieto-Taladriz MT, Ruiz M, Martinez MC, Vazquez JF & Carrillo JM 1997 Variation and classification of B low-molecular-weight glutenin subunit alleles in durum wheat. *Theoretical and Applied Genetics* 95: 1155-1160.
00115. Piergiovanni AR & Blanco A 1999 Variation of HMW glutenin and gamma-gliadin subunits in selected accessions of *Triticum dicoccon* (Schrank) and *T. spelta* (L.). *Cereal Research Communications* 27: 205-211.
00116. Radic-Miehle H, Saam C, Huls R, Kling ChI & Hesemann CU 1998 Characterization of spelt (*Triticum spelta* L.) forms by gel-electrophoretic analyses of seed storage proteins. III. Comparative analyses of spelt and Central European winter wheat (*Triticum aestivum* L.) cultivars by SDS-PAGE and acid-PAGE. *Theoretical and Applied Genetics* 97: 1340-1346.
00117. Radic H, Gunther T, Kling CI & Hesemann CU 1997 Characterisation of spelt (*Triticum spelta* L.) forms by gel electrophoretic analyses of seed storage proteins. II. The glutenins. *Theoretical and Applied Genetics* 94: 882-886.
00118. Harsch S, Gunther T, Kling CI, Rozynek B & Hesemann CU 1997 Characterisation of spelt (*Triticum spelta* L.) forms by gel electrophoretic analyses of seed storage proteins. I. The gliadins. *Theoretical and Applied Genetics* 94: 52-60.
00119. Metakovsky EV, Wrigley CW, Bekes F & Gupta RB 1990 Gluten polypeptides as useful genetic markers of dough quality in Australian wheats. *Australian Journal of Agricultural Research* 41: 289-306.
00120. Dubcovsky J 2000 Personal Communication.
0101. Prins R & Marais GF 1998 An extended deletion map of the *Lr19* translocation and modified forms. *Euphytica* 103: 95-102.
0102. Bartos P, Stuchlikova E & Hanusova R 1996 Adaptation of wheat rusts to the wheat cultivars in former Czechoslovakia. *Euphytica* 92: 95-103.
0103. Barloy D, Lemoine J, Dredryver F & Jahier J 2000 Molecular markers linked to the *Aegilops variabilis*- derived root knot nematode resistance gene *Rkn-mn1* in wheat. *Plant Breeding* 118: 169-172.
0104. Delibes A 2000 Personal communication.
0105. Romero MD, Montes MJ, Sin E, Lopez-Brana I, Duce I, Martin-Sanchez JA, Andres MF & Delibes A 1988 A cereal cyst nematode (*Heterodera avenae* Woll.) resistance gene transferred from *Aegilops triuncialis* to hexaploid wheat. *Theoretical and Applied Genetics* 96: 1135-1140.

0107. Jahier J, Abelard P, Tonguy AM, Dedryver F, Rivoal R, Khatkar R & Bariana HS 2001 The *Aegilops ventricosa* segment on chromosome 2AS of the wheat cultivar eVPM1 f carries the cereal cyst nematode gene *Cre5*. *Plant Breeding* 120: 125-128.
0108. Peng JH, Fahima T, Roder MS, LI YC, Grama A & Nevo E 2000 Microsatellite high-density mapping of the stripe rust resistance gene *YrH52* region on chromosome 1B and evaluation of its marker-assisted selection in the F2 generation in wild emmer wheat. *New Phytologist* 146: 141-154.
0109. Koval SF 1997 The catalog of near-isogenic lines of Novosibirskaya-67 common wheat and principles of their use in experiments. *Russian Journal of Genetics* 33: 995-1000.
0110. Chague V, Fahima T, Dahan A, Sun GL, Korol AB, Ronin YI, Grama A, Roder MS & Nevo E 1999 Isolation of microsatellite and RAPD markers flanking the *Yr15* gene of wheat using NILs and bulked segregant analysis. *Genome* 42: 1050-1056.
0111. Nieto-Taladriz MT, Rodrigues-Quijano M 2000 Polymorphism of waxy proteins in Spanish durum wheats. *Plant Breeding* 119: 277-279.
0112. Pukhal'skii VA & Bilinskaya EN 1997 Necrotic genotypes of modern spring varieties of common wheat *Triticum aestivum* L. in Russia, Ukraine, Belarus, and Kazakhstan. *Russian Journal of Genetics* 33: 1304-1308.
0113. Pukhalskiy VA, Iordanskaya IV, Badaeva ED, Lapochkina, and Bilinskaya EN 1999 Genetic analysis of spike waxlessness in a line of common wheat *Triticum aestivum* L. *Russian Journal of Genetics* 35: 1050-1054.
0114. Sourdille P, Tixier MH, Charmet G, Gay G, Cadalen T, Bernard S & Bernard M 2000 Location of genes involved in ear compactness in wheat (*Triticum aestivum*) by means of molecular markers. *Molecular Breeding* 6: 247-255.
0115. Camargo CE deO, Neto AT, Ferreira Filho AWP & Felicio JC 2000 Genetic control of aluminium tolerance in mutant lines of wheat cultivar Anahuac. *Euphytica* 114: 47-53.
0116. Shariflou MR & Sharp PJ 1999 A polymorphic microsatellite on the 3' end of 'waxy' genes of wheat, *Triticum aestivum*. *Plant Breeding* 118: 275-277.
0117. Shariflou MR, Hassani ME & Sharp PJ 2001 A PCR-based DNA marker for detection of mutant and normal alleles of the *Wx-D1* gene of wheat. *Plant Breeding* 120: 121-124.
0118. Yasui T, Sasaki T & Matsuki J 1998 Waxy bread wheat mutants, K107Wx.1 and K107Wx2, have a new null allele on *Wx-D1* locus. *Breeding Science* 48: 405-407.
0119. William HM & Singh RP 2000 Personal communication.
0120. Singh RP 2000 Personal communication.
0121. Williams K 2000 Personal communication.
0122. Thompson J 2000 Personal communication.
0123. Clark JR, Robertson M, Ainsworth CC 1991 Nucleotide sequence of a wheat (*Triticum aestivum* L.) cDNA encoding the waxy protein. *Plant Molecular Biology* 16: 1099-1101.
0124. Sanchez-Monge, Gomez L, Garcia- Olmedo F & Salcedo G. 1989 New dimeric inhibitor of heterologous alpha-amylases encoded by a duplicated gene in the short arm of chromosome 3B of wheat (*Triticum aestivum* L.) *European Journal of Biochemistry* 183: 37-40.
0125. Singh J, Appels R, Sharp P & Skerritt J 2001 Albumin polymorphism and mapping of a dimeric alpha-amylase inhibitor in wheat. *Australian Journal of Agricultural Research*. 52: 1173-1179
0126. Helguera M, Khan IA & Dubcovsky J 2000 Development of PCR markers for the wheat leaf rust gene *Lr47*. *Theoretical & Applied Genetics* 101: 625-631.
0127. Kojima T, Habu Y, Iida S & Ogihara Y 2000 Direct isolation of differentially expressed



- genes from a specific chromosome region of common wheat: application of the amplified fragment length polymorphism-based in RNA fingerprinting (AMF) method in combination with a deletion line of wheat. *Molecular and General Genetics* 263: 635-641.
0128. Laroche A, Demeke T, Gaudet DA, Puchalski B, Frick M & McKenzie R 2000 Development of a PCR marker for rapid identification of the *Bt10* gene for common bunt resistance in wheat. *Genome* 43: 217-223.
0129. Zeller FJ, Kong L, Hartl L, Mohler V & Hsam SLK 2002 Chromosomal location of genes for resistance to powdery mildew in common wheat (*Triticum aestivum* L. em Thell.) 7. Gene *Pm29* in line Pova. *Euphytica* 123: 187-194
0130. Watanabe N & Ikakata N 2000 The effects of homoeologous group 3 chromosomes on grain colour dependent seed dormancy and brittle rachis in tetraploid wheat. *Euphytica* 115: 215-220.
0131. Khan AA, Bergstrom GC, Nelson JC & Sorrells ME 2000 Identification of RFLP markers for resistance to wheat spindle streak mosaic bymovirus (WSSMV) disease. *Genome* 43: 477-482.
0132. Sourdille P, Snape JW, Cadalen T, Charmet G, Nakata N, Bernard S & Bernard M 2000 Detection of QTL's for heading time and photoperiod response in wheat using a doubled haploid population. *Genome* 43: 487-494.
0133. Taylor C, Shepherd KW & Langridge P 1998 A molecular genetic map of the long arm of chromosome 6R of rye incorporating the cereal cyst nematode gene, *CreR*. *Theoretical & Applied Genetics* 97: 1000-1012.
0134. Tixier MH, Sourdille P, Charmet G, Gay C, Cadalen T, Bernard S, Nicholas P & Bernard M 1998 Detection of QTL's for crossability in wheat using a doubled-haploid population. *Theoretical & Applied Genetics* 97: 1076-1082.
0135. Spielmeier W, Moullet O, Laroche A & Lagudah ES 2000 Highly recombinogenic regions at seed storage protein loci on chromosome IDS of *Aegilops tauschii*, the D-genome donor of wheat. *Genetics* 155: 361-367.
0136. Enns H & Konzak CF 1966 Genetically controlled seedcoat variegation in *Triticum aestivum*. *Genetics* 53: 1091-1099.
0137. Yamamori M, Fujita S, Hayakawa K & Matsuki J 2000 Genetic elimination of a starch granule protein, SGP-1, of wheat generates an altered starch with apparent high amylose. *Theoretical & Applied Genetics* 101: 21-29.
0138. Ogonnaya FC, Seah S, Delibes A, Jahier J, Lopez-Brana I, Eastwood RF & Lagudah ES. 2001 Molecular-genetic characterization of a new nematode resistance gene in wheat. *Theoretical & Applied Genetics* 102: 623-629.
0139. Tao W, Liu D, Liu J, Feng Y & Chen P 2000 Genetic mapping of the powdery mildew resistance gene *Pm6* in wheat by RFLP analysis. *Theoretical and Applied Genetics* 100: 564-568.
0140. Luo MC, Yang ZL & Dvorak J 2000 The Q locus of Iranian and European spelt wheat. *Theoretical & Applied Genetics* 100: 602-606.
0141. Perretant MR, Cadalen T, Charmet G, Sourdille P, Nicolas P, Boeuf C, Tixier MH, Branlard G, Bernard S & Bernard M 2000 QTL analysis of bread-making quality in wheat using a doubled haploid population. *Theoretical & Applied Genetics* 100: 1167-1175.
0142. Chantret N, Sourdille P, Roder M, Tavaud M, Bernard M & Doussinault G 2000 Location and mapping of the powdery mildew resistance gene *MIRE* and detection of a resistance QTL by bulked segregant analysis (BSA) with microsatellites in wheat. *Theoretical & Applied Genetics* 100: 1217-1224.

0144. Marcoz-Ragot C, Gateau I, Koenig J, Delaire V & Branlard G 2000 Allelic variants of granule-bound starch synthase proteins in European bread wheat varieties. *Plant Breeding* 119: 305-309.
0145. Ahmad M 2000 Molecular marker-assisted selection of HMW glutenin alleles related to wheat bread quality by PCR-generated DNA markers. *Theoretical & Applied Genetics* 101: 892-896.
0146. Chantret N, Sourdille P, Roder M, Tavaud M, Bernard M & Doussinault G 2000 Location and mapping of the powdery mildew resistance gene MIRE and detection of a resistance QTL by bulked segregant analysis (BSA) with microsatellites in wheat. *Theoretical & Applied Genetics* 100: 1217-1224.
0147. De Bustos A, Rubio P & Jouve N 2000 Molecular characterisation of the inactive allele of the gene *Glu-A1* and the development of a set of AS-PCR markers for HMW glutenins of wheat. *Theoretical & Applied Genetics* 100: 1085-1094.
0148. Faris JD, Haen KM & Gill BS 2000 Saturation mapping of a gene-rich recombination hot spot region in wheat. *Genetics* 154: 823-835.
0149. Galili S, Avivi Y, Millet E & Feldman M 2000 RFLP-based analysis of three RbcS subfamilies in diploid and polyploid species of wheat. *Molecular and General Genetics* 263: 674-680.
0150. Huang XQ, Hsam SLK, Zeller FJ, Wenzel G & Mohler V 2000 Molecular mapping of the wheat powdery mildew resistance gene *Pm24* and marker validation for molecular breeding. *Theoretical and Applied Genetics* 101: 407-414.
0151. Laroche A, Demeke T, Gaudet DA, Puchalski B, Frick M & McKenzie R 2000 Development of a PCR marker for rapid identification of the Bt-10 gene for common bunt resistance in wheat. *Genome* 43: 217-223.
0152. Lotti C, Salvi S, Pasqualone A, Tuberosa R & Blanco A 2000 Integration of AFLP markers into an RFLP-based map of durum wheat. *Plant Breeding* 119: 393-401.
0153. Prasad M, Varshney RK, Roy JK, Balyan HS & Gupta PK 2000 The use of microsatellites for detecting DNA polymorphism, genotype identification and genetic diversity in wheat. *Theoretical and Applied Genetics* 100: 584-592.
0154. Dubcovsky J 2001 Personal communication.
0155. Flore G 2001 Personal communication.
0156. Rogers SG 2001 Personal communication.
0157. Bernard M 2001 Personal communication.
0158. Benoist P 2001 Personal communication.
0159. Sharp P 2001 Personal communication.
0160. Keller B 2001 Personal communication.
0161. Devaux P 2001 Personal communication.
0162. Wang RC 2001 Personal communication.
0163. 2002 *Euphytica* 123: 21-29.
0164. Tao W, Liu D, Liu J, Feng Y & Chen P 2000 Genetic mapping of the powdery mildew resistance gene *Pm6* in wheat by RFLP analysis. *Theoretical and Applied Genetics* 100: 564-568.
0165. Varshney RK, Prasad M, Roy JK, Harjit-Singh NK, Dhaliwal HS, Balyan HS & Gupta PK 2000 Identification of eight chromosomes and a microsatellite marker on 1AS associated with QTL for grain weight in bread wheat. *Theoretical & Applied Genetics* 100: 1290-1294
0166. Weibull P 2001 Personal communication.

0167. Vrinten PL & Nakamura T 2000 Wheat granule-bound starch synthase I and II are encoded by separate genes that are expressed in different tissues. *Plant Physiology* 122: 255-263.
0168. Yan LL, Bhave M, Fairclough R, Konik C, Rahman S & Appels R 2000 The genes encoding granule-bound starch synthases at the waxy loci of the A, B, and D progenitors of common wheat. *Genome* 43: 264-272.
0169. Zanetti S, Winzeler M, Keller M, Keller B & Messmer M 2000 Genetic analysis of pre-harvest sprouting resistance in a wheat x spelt cross. *Crop Science* 40: 1406-1417.
0170. Peng JH, Fahima T, Roder MS, Li YC, Grama A & Nevo E 2000 Microsatellite high-density mapping of the stripe rust resistance gene YrH52 region on chromosome 1B and evaluation of its marker-assisted selection in the F-2 generation in wild emmer wheat. *New Phytologist* 146: 141-154.
0171. Peng J, Korol AB, Fahima T, Roder MS, Ronin YI, Li YC & Nevo E 2000 Molecular genetic maps in wild emmer wheat, *Triticum dicoccoides*: Genome-wide coverage, massive negative interference, and putative quasi-linkage. *Genome Research* 10: 1509-1531.
0172. Venter E & Botha A-M 2000 Development of markers linked to *Diuraphis noxia* resistance in wheat using a novel PCR-RFLP approach. *Theoretical & Applied Genetics* 100: 965-970.
0173. Pestsova E, Ganal MW & Roder MS 2000 Isolation and mapping of microsatellite markers specific for the D genome of bread wheat. *Genome* 43: 698-697.
0174. Ban T & Suenaga K 2000 Genetic analysis of resistance to *Fusarium* head blight caused by *Fusarium graminearum* in Chinese wheat cultivar Sumai 3 and the Japanese cultivar Saikai 165. *Euphytica* 113: 87-99.
0175. Anderson JA, Stack RW, Liu S, Waldron BL, Fjeld AD, Coyne C, Moreno-Sevilla B, Mitchell Fetch J, Song QJ, Cregan PB & Frohberg RC 2001 DNA markers for *Fusarium* head blight resistance QTLs in two wheat populations. *Theoretical & Applied Genetics* 102: 1164-1168.
0176. Dubcovsky J, Tranquilli G, Khan IA, Pfluger LA, Suarez E, Rousset M & Dvorak J 2000 Comparisons of recombination frequencies in hybrids involving telocentric and bibrachial wheat chromosomes. *Theoretical & Applied Genetics* 100: 308-314.
0177. Giroux MJ, Talbert L, Habernicht DK, Lanning S, Hemphill A & Martin JM 2000 Association of puroindoline sequence type and grain hardness in hard red spring wheat. *Crop Science* 40: 370-374.
0178. Hammer K, Filatenko AA & Korzun V 2000 Microsatellite markers - a new tool for distinguishing diploid wheat species. *Genetic Resources & Crop Evolution* 47: 497-505.
0179. Khan IA, Procunier JD, Humphreys DG, Tranquilli G, Schlatter AR, Marcucci-Poltri S, Frohberg R & Dubcovsky J 2000 Development of PCR-based markers for a high grain protein content gene from *Triticum turgidum* ssp *dicoccoides* transferred to bread wheat. *Crop Science* 40: 518-524.
0180. Parker GD & Langridge P 2000 Development of a STS marker linked to a major locus controlling flour colour in wheat (*Triticum aestivum* L.). *Molecular Breeding* 6: 169-174.
0181. Chalmers KJ, Rathjen AJ & Langridge P 1999 Mapping loci associated with milling yield in wheat (*Triticum aestivum* L.). *Molecular Breeding* 5: 561-568.
0182. Zhang ZY, Xin ZY, Ma YZ, Chen X, Xu QF & Lin ZS 1999 Mapping of a BYV resistance gene from *Thinopyrum intermedium* in wheat background by molecular markers. *Science In China Series C-Life Sciences* 42: 663. Chinese Academy of Sciences.
0183. Seah S, Spielmeyer W, Jahier J, Sivasithamparam K & Lagudah ES 2000 Resistance gene analogs within an introgressed chromosomal segment derived from *Triticum ventricosum* that confers resistance to nematode and rust pathogens in wheat. *Molecular Plant-Microbe*

- Interactions 13: 334-341.
0184. Lotti C, Salvi S, Pasquallone A, Tuberosa R & Blanco A Integration of AFLP markers into an RFLP-based map of durum wheat. *Plant Breeding* 119: 393-401.
0185. Blanco A, Bellomo MP, Cenci A, de Giovanni R, D'Olidio R, Iocono E, Laddomada B, Pagnotta MA, Porceddu E, Sciencalepore A, Simeone R & Tanzarella OA 1998 A genetic linkage map of durum wheat. *Theoretical & Applied Genetics* 97: 721-728.
0186. Arraiano LS, Worland, Ellerbrook C & Brown JKM 2001 Chromosomal location of a gene for resistance to septoria tritici blotch (*Mycosphaerella graminicola*) in a hexaploid wheat eSynthetic 6X f. *Theoretical & Applied Genetics* 103: 758-764.
0187. Brading PA, Verstaffen ECP, Kema GHJ & Brown JKM 2002 A gene-for-gene relationship between wheat and *Mycosphaerella graminicola*, the septoria tritici blotch pathogen. *Phytopathology* 92: 439-445
0188. McIntosh RA, Devos KM, Dubcovsky J & Rogers J 2001 Catalogue of gene symbols for wheat: 2001 Supplement *Annual Wheat Newsletter* 47: 333-354.
0189. Endo TR 1996 Allocation of a gametocidal chromosome of *Aegilops cylindrica* to wheat homoeologous group 2. *Genes & Genetic Systems* 71: 243-246.
0190. Endo TR 1990 Gametocidal chromosomes and their induction of chromosome mutations in wheat. *Japanese Journal of Genetics* 65: 135-162.
0191. Endo TR & Gill BS 1996 The deletion stocks of common wheat. *Journal of Heredity* 87: 295-307.
0192. Endo TR, Yamamoto M & Mukai Y 1994 Structural changes of rye chromosome 1R induced by a gametocidal chromosome. *Japanese Journal of Genetics* 69: 13-19.
0193. Shi F & Endo TR 1997 Production of wheat and barley disomic addition lines possessing an *Aegilops cylindrica* gametocidal chromosome. *Genes and Genetic Systems* 72: 243-248.
0194. Shi F & Endo TR 1999 Genetic induction of structural changes in barley chromosomes added to common wheat by a gametocidal chromosome derived from *Aegilops cylindrica*. *Genes and Genetic Systems* 74: 49-54.
0195. Shi F & Endo TR 2000 Genetic induction of chromosomal rearrangements in barley chromosome 7H added to common wheat. *Chromosoma* 109: 358-363.
0196. Ahmed TA, Tsujimoto H & Sasakuma T 2000 QTLs associated with plant height and related characters in hexaploid wheat. *Breeding Science* 50: 267-273.
0197. Liu ZY, Sun QX, Ni ZF, Nevo E & Yang TM 2002 Molecular characterization of a novel powdery mildew resistance gene *Pm30* in wheat originating from wild emmer. *Euphytica* 123: 21-29.
0198. Payne PI, Nightingale MA, Krattiger AF & Holt LM 1987 The relationship between HMW glutenin subunit composition and the bread-making quality of British-grown wheat varieties. *Journal of the Science of Food and Agriculture* 40: 51-65.
0199. Payne PI, Seekings JA, Worland AJ, Jarvis MG & Holt LM 1987 Allelic variation of gluten subunits and gliadins and its effect on bread making quality in wheat: Analysis of F<sub>5</sub> progeny from Chinese Spring x Chinese Spring (Hope 1A). *Journal of Cereal Science* 6: 103-118.
01100. Obukhova LV, Maystrenko OI, Generalova GV, Ermakova MF & Popova RK 1997 Composition of high-molecular-weight glutenin subunits in common wheat substitution lines created from cultivars with contrasting bread-making qualities. *Russian Journal of Genetics* 33: 1005-1009.
01101. Benmoussa M, Vezina LP, Page M, Yelle S & Laberge S 2000 Genetic polymorphism in low-molecular-weight glutenin genes from *Triticum aestivum*, variety Chinese Spring. *Theoretical and Applied Genetics* 100: 789-793.

01102. Wei YM, Zheng YL, Liu DC, Zhou YH & Lan XJ 2000 Genetic diversity of *Gli-1*, *Gli-2* and *Glu-1* alleles in Sichuan wheat landraces. *Acta Botanica Sinica* 42: 496-501.
01103. von Buren M, Luthy J & Hubner P 2000 A spelt-specific gamma-gliadin gene: discovery and detection. *Theoretical and Applied Genetics* 100: 271-279.
01104. Scheets K, Rafalski JA, Hedgcoth C & Soll DG 1985 Heptapeptide repeat structure of a wheat gamma-gliadin. *Plant Science Letters* 37: 221-225.
01105. DuPont FM, Vensel WH, Chan R & Kasarda DD 2000 Characterization of the 1B-type omega-gliadins from *Triticum aestivum* cultivar Butte. *Cereal Chemistry* 77: 607-614.
0201. Ayala L, van Ginkel M, Khairallah M, Keller B & Henry M 2001 Expression of *Thinopyrum intermedium*- derived *barley yellow dwarf virus* resistance in elite bread wheat backgrounds. *Phytopathology* 91: 55-62.
0202. Kosner J & Pankova K 1999 Impact of homoeologous group 5 chromosomes with different *vrn* loci on leaf size and tillering. *Czech Journal of Genetics and Plant Breeding* 35: 65-72.
0203. Morris CF, King GE, Allan RE & Simeone MC 2001 Identification and characterization of near-isogenic hard and soft hexaploid wheats. *Crop Science* 41: 211-217.
0204. Morris CF, Lillemo M, Simeone MC, Giroux MJ, Babb SL & Kidwell KK 2001 Prevalence of puroindoline grain hardness genotypes among historically significant North American spring and winter wheats. *Crop Science* 41: 218-228.
0205. Lillemo M & Morris CF 2000 A leucine to proline mutation in puroindoline b is frequently present in hard wheats from Northern Europe. *Theoretical and Applied Genetics* 100: 1100-1107.
0206. Martin JM, Frohberg RC, Morris CF, Talbert LE & Giroux MJ 2001 Milling and bread baking traits associated with puroindoline sequence type in hard red spring wheat. *Crop Science* 41: 228-234.
0207. Krishnamurthy K & Giroux MJ 2001 Expression of wheat puroindoline genes in transgenic rice enhances grain softness. *Nature Biotechnology* 19: 162-166.
0208. Knox RE & Howes NK 1994 A monoclonal antibody chromosome marker analysis used to locate a loose smut resistance gene in wheat chromosome 6A. *Theoretical and Applied Genetics* 89: 787-793.
0209. Quick JS, Ellis GE, Normann RM, Stramberger JA, Shanahan JF, Pairs FB, Rudolph JB & Lorenz K 1996 Registration of *Hereward* wheat. *Crop Science* 36: 210.
0210. Toit F du 1989 Inheritance of resistance in two *Triticum aestivum* lines to Russian wheat aphid (Homoptera: Aphidae). *Journal of Economic Entomology* 82: 1251-1253.
0211. Liu XM, Smith CM, Gill BS & Tolmay V 2001 Microsatellite markers linked to six Russian wheat aphid resistance genes in wheat. *Theoretical and Applied Genetics* 102: 504-510.
0212. Cao W, Hughes GR, Ma H & Dong Z 2001 Identification of molecular markers for resistance to *Septoria nodorum* blotch in durum wheat. *Theoretical & Applied Genetics* 102: 551-554.
0213. Seah S, Bariana H, Jahier J, Sivasithamparum K & Lagudah ES 2001 The introgressed segment carrying rust resistance genes *Yr17*, *Lr37* and *Sr38* in wheat can be assayed by a cloned disease resistance gene-like sequence. *Theoretical and Applied Genetics* 102: 600-605.
0214. Gill KS & Gill BS 1996 A PCR-based screening assay of *Ph1*, the chromosome pairing regulator gene of wheat. *Crop Science* 36: 719-722.
0215. Dudnikov AJ, Gorel FL & Berdnikov VA 2002 Chromosomal location of histone H1 genes in common wheat. *Cereal Research Communications*. 30: 55-61
0216. Nasuda S, Liu Y, Sakamoto A, Nakayama T, Iwabuchi M & Tsunewaki K 1993

- Chromosomal locations of the genes for histones and a histone-binding protein family HBP-1 in common wheat. *Plant Molecular Biology* 22: 603-614.
0217. Segal G, Liu B, Vega JM, Abbo S, Rodova M & Feldman M 1997 Identification of a chromosome-specific probe that maps within the *Ph1* deletions in common and durum wheat. *Theoretical & Applied Genetics* 94: 968-970.
0218. McKenzie Lamb Aung Wise Barker & Orfert 2002 Inheritance of resistance to wheat midge, *Sitodiplosis mosellana*, in spring wheat. *Plant Breeding* 121: 383-388
0219. Roberts MA, Reader SM, Dalgliesh C, Miller TE, Foote TN, Fish LJ, Snape JW & Moore G 1999 Induction and characterization of *ph1* wheat mutants. *Genetics* 153: 1909-1918.
0220. Williams K 2001 Personal communication.
0221. Brown-Guerdira G 2001 Personal communication.
0222. Brown-Guerdira G 2001 Personal communication.
0223. Thomas J, Riedel E & Penner G 2002 An efficient method for assigning traits to chromosomes. *Euphytica* 119: 217-221
0224. Huguot-Robert V, Dedryver F, Roder MS, Korzun V, Abelard P, Tanguy AM, Jaudeau B & Jahier J 2001 Isolation of a chromosomally engineered durum wheat line carrying the *Aegilops ventricosa Pch1* gene for resistance to eyespot. *Genome* 44: 345-349.
0225. Ayala L, Henry M, Gonzalez-de-Leon D, Van Ginkel M, Mujeeb-Kazi A, Keller B & Khairallah M 2001 A diagnostic molecular marker allowing the study of *Th. intermedium*-derived resistance to BYDV in bread wheat segregating populations. *Theoretical & Applied Genetics* 102: 942-949.
0226. Kato K, Nakamura W, Tabiki T & Miura H 2001 Detection of loci controlling seed dormancy on group 4 chromosomes of wheat and comparative mapping with rice and barley genomes. *Theoretical & applied Genetics* 291: 980-985.
0227. Aghaee-Sarbarzeh M, Harjit-Singh & Dhaliwal HS 2001 A microsatellite marker linked to leaf rust resistance transferred from *Aegilops triuncalis* into hexaploid wheat. *Plant Breeding* 120: 259-261.
0228. Kolmer JA 2001 Physiologic specialization of *Puccinia triticina* in Canada in 1998. *Plant disease* 85: 155-158.
0229. Park RF, Goyeau H, Felsenstein FG, Bartos P & Zeller FJ 2001 Regional phenotypic diversity of *Puccinia triticina* and wheat host resistance in western Europe, 1995. *Euphytica* 122: 113-127.
0230. Yang TZ, Zhang XK, Liu HW & Wang ZH 1998 Chromosomal arm location of a dominant dwarfing gene *Rht21* in XN004 of common wheat. *Proceedings of the 8<sup>th</sup> International Wheat Genetics Symposium, Beijing, 1993* (Li ZS & Xin Zy eds) 839-842.
0231. Borner A & Worland AJ 2002 Does the Chinese dwarf wheat variety eXN004 carry *Rht21*? *Cereal Research Communications* 30: 25-29
0232. Marais GF, Marais AS & Groenewald JZ 2000 Evaluation and reduction of *Lr19-149*, a recombinant form of the *Lr19* translocation of wheat. *Euphytica* 121: 289-295.
0233. Seo YW, Jang CS & Johnson JW 2001 Development of AFLP and STS markers for identifying wheat-rye translocations possessing 2RL. *Euphytica* 121: 279-287.
0234. Yanagasawa T, Kiribuchi-Otobe C & Yoshida H 2001 An alanine to threonine change in the *Wx-D1* protein reduces GBSS I activity in a waxy wheat mutant. *Euphytica* 121: 209-214.
0235. Csocz M, Bartos P & Mesterhazy A 2001 Identification of stem rust resistance gene *Sr36* in the wheat cultivar GK Kincso and its derivatives. *Cereal Research Communications* 29: 267-273.

0236. Ammiraju JSS, Dholakia BB, Santra DK, Singh H, Lagu MD, Tamhankar SA, Dhaliwal HS, Rao VS, Gupta VS & Ranjekar PK 2001 Identification of inter simple sequence repeat (ISSR) markers associated with seed size in wheat. *Theoretical & Applied Genetics* 102: 726-732.
0237. Ammiraju JSS, Dholakia BB, Jawdekar G, Santra DK, Gupta VS, Roder MS, Singh H, Lagu MD, Dhaliwal HS, Rao VS, & Ranjekar PK 2002 Inheritance and identification of DNA markers associated with yellow berry tolerance in wheat (*Triticum aestivum* L.). *Euphytica*. 123: 229-233.
0238. Harker N, Rampling LR, Shariflou MR, Hayden MJ, Holton TA, Morell MK, Sharp PJ, Henry RJ, Edwards KJ 2001 Microsatellites as markers for Australian wheat improvement. *Australian Journal of Agricultural Research* 52: 1121-1130.
0239. Cregan P 2002 Personal Communication.
0240. Buerstmayr H, Lemmens M, Hartl L, Doldi L, Steiner B, Stierschneider M & Ruckenbauer P 2002 Molecular mapping of QTLs for Fusarium head blight resistance in spring wheat. I. Resistance to fungal spread (Type II resistance). *Theoretical & Applied Genetics*. 104: 84-91
0241. Campbell KG, Finney PL, Bergman CJ, Gualberto DG, Anderson JA, Giroux MJ, Sirtunga D, Zhu JQ, Gendre F, Roue C, Verel A & Sorrells ME 2001 Quantitative trait loci associated with milling and baking quality in a soft x hard wheat cross. *Crop Science* 41: 1275-1285.
0242. Chalmers KJ, Campbell AW, Kretschmer J, Karakousis A, Henschke PH, Pierens S, Harker N, Pallotta M, Cornish GB, Shariflou MR, Rampling LR, McLauchlan A, Daggard G, Sharp PJ, Holton TA, Sutherland MW, Appels R & Langridge P 2001 Construction of three linkage maps in bread wheat, *Triticum aestivum*. *Australian Journal of Agricultural Research* 52: 1089-1119.
0243. Chebotar SV, Korzun VN & Sivolap YM 2001 Allele distribution at locus WMS261 marking the dwarfing gene *Rht8* in common wheat cultivars of southern Ukraine. *Russian Journal of Genetics* 37: 894-898.
0244. Chee PW, Elias EM, Anderson JA & Kianian SF 2001 Evaluation of a high grain protein QTL from *Triticum turgidum* L. var. *dicoccoides* in an adapted durum wheat background. *Crop Science* 41: 295-301.
0245. Cloutier S, Rampitsch C, Penner GA & Lukow OM 2001 Cloning and expression of a LMW-i glutenin gene. *Journal of Cereal Science* 33: 143-154.
0246. Galiba G, Kerepesi I, Vagujfalvi A, Kocsy G, Cattivelli L, Dubcovsky J, Snape JW & Sutka J 2001 Mapping of genes involved in glutathione, carbohydrate and COR14b cold induced protein accumulation during cold hardening in wheat. *Euphytica* 119: 173-177.
0247. Gill KS & Sandhu D 2001 Candidate-gene cloning and targeted marker enrichment of wheat chromosomal regions using RNA fingerprinting - differential display. *Genome* 44: 633-639.
0248. Rodriguez Milla MA & Gustafson JP 2001 Genetic and physical characterization of chromosome 4DL in wheat. *Genome* 44: 883-892.
0249. Corona V, Gazza L, Boggini G & Pogna NE 2001 Variation in friabilin composition as determined by A-PAGE fractionation and PCR amplification, and its relationship to grain hardness in bread wheat. *Journal of Cereal Science* 34: 243-250.
0250. Khlestkina EK, Pestsova EG, Roder MS & Borner A 2002 Molecular mapping, phenotypic expression and geographical distribution of genes determining anthocyanin pigmentation of coleoptiles in wheat (*Triticum aestivum* L.). *Theoretical & Applied Genetics*. 104: 632-737
0251. Rousset M, Brabant P, Kota RS, Dubcovsky J & Dvorak J 2001 Use of recombinant substitution lines for gene mapping and QTL analysis of bread making quality in wheat.

- Euphytica 119: 81-87.
0252. Sandhu D, Champoux JA, Bondareva SN & Gill KS 2001 Identification and physical localization of useful genes and markers to a major gene-rich region on wheat group 1S chromosomes. *Genetics* 157: 1735-1747.
0253. Torp AM, Hansen AL & Andersen SB 2001 Chromosomal regions associated with green plant regeneration in wheat (*Triticum aestivum* L.) anther culture. *Euphytica* 119: 377-387.
0254. Wang H-J, Huang XQ, Roder MS & Borner A 2002 Genetic mapping of loci determining long glumes in the genus *Triticum*. *Euphytica*. 123: 287-293
0255. Borner A, Schumann E, Furste A, Coster H, Leithold B, Roder MS & Weber WE 2001 Mapping of quantitative trait loci determining agronomic important characters in hexaploid wheat (*Triticum aestivum* L.). *Theoretical and Applied Genetics*. 105: 921-936
0256. Delibes A 2002 Personal communication.
0257. Hsam SLK, Huang XQ & Zeller 2001 Chromosomal location of genes for resistance to powdery mildew in common wheat (*Triticum aestivum* L. em. Thell.) 6. Alleles at the *Pm5* locus. *Theoretical & Applied Genetics* 102: 127-133.
0258. Huang XQ, Wang LX, Xu MX & Roder M 2002 Microsatellite mapping of the wheat powdery mildew resistance gene *Pm5e* in common wheat (*Triticum aestivum* L.). Personal communication.
0259. Huang XQ, Hsam SLK & Zeller 2000 Chromosomal location of two novel genes for resistance to powdery mildew in Chinese landraces (*Triticum aestivum* L. em. Thell.). *Journal of Genetics and Breeding* 54: 311-317.
0260. Singh D, Park RF & McIntosh RA 2001 Postulation of leaf (brown) rust resistance genes in 70 wheat cultivars grown in the United Kingdom. *Euphytica* 120: 205-215.
0261. Frick MM, Hucl R, Nykiforuk CL, Conner RL, Kuzyk A & Laroche A 1998 Molecular characterisation of a wheat stripe rust resistance gene in Moro wheat. In: *Proceedings 9<sup>th</sup> International Wheat Genetics Symposium*, Saskatoon, Canada (Slinkard AE ed.) 3: 181-182.
0262. Bariana HS, Brown GN, Ahmed NU, Khatkar S, Conner RL, Wellings CR, Haley S, Sharp PJ & Laroche A 2002 Characterisation of *Triticum vavilovii*-derived stripe rust resistance using genetic, cytogenetic and molecular analyses and its marker-assisted selection. *Theoretical & Applied Genetics* 104: 315-320.
0263. Ciaffi M, Paolacci AR, Dominici L, Tanzarella OA & Porceddu E 2001 Molecular characterization of gene sequences coding for protein disulphide isomerase (PDI) in durum wheat (*Triticum turgidum* ssp *durum*). *Gene* 265: 147-156.
0264. Effertz RJ, Anderson JA & Francl LJ 2001 Restriction fragment length polymorphism mapping of resistance to two races of *Pyrenophora tritici repentis* in adult and seedling wheat. *Phytopathology* 91: 572-578.
0265. Faris J, Sirikhachornkit A, Haselkorn R, Gill BS & Gornicki 2001 Chromosome mapping and phylogenetic analysis of the cytosolic acetyl-CoA carboxylase loci in wheat. *Molecular Biology & Evolution* 18: 1720-1733.
0266. Li WL, Faris JD, Muthukrishnan S, Liu DJ, Chen PD & Gill BS 2001 Isolation and characterization of novel cDNA clones of acidic chitinases and beta-1,3-glucanases from wheat spikes infected by *Fusarium graminearum*. *Theoretical and Applied Genetics* 102: 353-362.
0267. Baenziger PS, Shelton DR, Shipman MJ & Graybosch RA 2001 Breeding for end-use quality: Reflections on the Nebraska experience. *Euphytica* 119: 95-100.
0268. Kolmer JA & Liu JQ 2001 Simple inheritance of partial resistance to leaf rust in two wheat cultivars. *Plant Pathology* 50: 546-551.



0269. Nachit MM, Elouafi I, Pagnotta MA, El Saleh A, Iacono E, Labhilili M, Asbati A, Azrak M, Hazzam H, Benscher D, Khairallah M, Ribaut JM, Tanzarella OA, Porceddu E & Sorrells ME 2001 Molecular linkage map for an intraspecific recombinant inbred population of durum wheat (*Triticum turgidum* L. var. *durum*). *Theoretical & Applied Genetics* 102: 177-186.
0270. Peng JH, Fahima T, Roder MS, Huang QY, Dahan A, Li YC, Grama A & Nevo E 2000 High-density molecular map of chromosome region harboring stripe-rust resistance genes *YrH52* and *Yr15* derived from wild emmer wheat, *Triticum dicoccoides*. *Genetica* 109: 199-210.
0271. Sasanuma T 2001 Characterization of the *rbcS* multigene family in wheat: subfamily classification, determination of chromosomal location and evolutionary analysis. *Molecular Genetics & Genomics* 265: 161-171.
0272. Chantret N, Mingeot D, Sourdille P, Bernard M, Jacquemin JM & Doussinault G 2001 A major QTL for powdery mildew resistance is stable over time and at two development stages in winter wheat. *Theoretical & Applied Genetics* 103: 962-971.
0273. Prins R, Groenewald JZ, Marais GF, Snape JW & Koebner RMD 2001 AFLP and STS tagging of *Lr19*, a gene conferring resistance to leaf rust in wheat. *Theoretical & Applied Genetics* 103: 618-624.
0274. Sutka J 2001 Genes for frost resistance in wheat. *Euphytica* 119: 167-172.
0275. Tsujimoto H, Yamada T, Hasegawa K, Usami N, Kojima T, Endo TR, Ogihara Y & Sasakuma T 2001 Large-scale selection of lines with deletions in chromosome 1B in wheat and applications for fine deletion mapping. *Genome* 44: 501-508.
0276. Varshney RK, Prasad M, Roy JK, Roder MS, Balyan HS, Gupta PK 2001 Integrated physical maps of 2DL, 6BS and 7DL carrying loci for grain protein content and pre-harvest sprouting tolerance in bread wheat. *Cereal Research Communications* 29: 33-40.
0277. Vasu K, Harjit-Singh, Singh S, Chhuneja P & Dhaliwal HS 2001 Microsatellite marker linked to a leaf rust resistance gene from *Triticum monococcum* L. transferred to bread wheat. *Journal of Plant Biochemistry & Biotechnology* 10: 127-132.
0278. Yan L & Bhave M 2000 Sequences of the waxy loci of wheat: Utility in analysis of waxy proteins and developing molecular markers. *Biochemical Genetics* 38: 391-411.
0279. Yan LL & Bhave M 2001 Characterization of waxy proteins and waxy genes of *Triticum timopheevii* and *T. zhukovskyi* and implications for evolution of wheat. *Genome* 44: 582-588.
0280. Zanetti S, Winzeler M, Feuillet C, Keller B & Messmer M 2001 Genetic analysis of bread-making quality in wheat and spelt. *Plant Breeding* 120: 13-19.
0281. Snape JW 2002 Personal communication.
0282. Iwaki K, Nakagawa K & Kato K 2001 The possible candidate for *Vrn-B1* in wheat, as revealed by monosomic analysis of *Vrn* genes carried by Triple Dirk (B), the former *Vrn2*. *Wheat Information Service* 92: 9-11.
0283. Kolb FL, Bai GH, Muehlbuer GJ, Anderson JA, Smith KP & Fedak G 2001 Host plant resistance genes for Fusarium head blight: mapping and manipulation with molecular markers. *Crop Science* 41: 611-619.
0284. Liu SX, Griffey CA & Saghai-Maroo MA 2001 Identification of molecular markers associated with adult plant resistance to powdery mildew in common wheat cultivar Massey. *Crop Science* 41: 1268-1275.
0285. Ma JX, Zhou RG, Dong YS, Wang LF, Wang XM & Jia JZ 2001 Molecular mapping and detection of the yellow rust resistance gene *Yr26* in wheat transferred from *Triticum turgidum* L. using microsatellite markers. *Euphytica* 120: 219-226.

0286. Mohle V, Hsam SLK, Zeller FJ & Wenzel G 2001 An STS marker distinguishing the rye-derived powdery mildew resistance alleles at the *Pm8/Pm17* locus of common wheat. *Plant Breeding* 120: 448-450.
0287. Boukhatem N, Baret PV, Mingeot D & Jacquemin JM 2002 Quantitative trait loci for resistance against yellow rust in two wheat-derived inbred wheat line populations. *Theoretical & Applied Genetics* 104: 111-115.
0288. Singh D, Park RF & McIntosh RA 2001 Inheritance of seedling and adult plant resistance of selected Australian spring and English winter wheat varieties. *Plant Breeding* 120: 503-507.
0289. Qi LL & Gill BS 2001 High-density physical maps reveal the dominant gene *Ms3* is located in a genomic region of low recombination in wheat and is not amenable to map-based cloning. *Theoretical and Applied Genetics* 103: 998-1006.
0290. Klindworth DL, Williams ND & Maan SS 2002 Chromosomal location of genetic male sterility genes in four mutants of hexaploid wheat (*Triticum aestivum*). *Crop Science* 42: 1447-1450
0291. Snape JW, Semikhodskii A, Fish L, Sarma RN, Quarrie SA, Galiba G & Sutka J 1997 Mapping frost tolerance loci in wheat and comparative mapping with other cereals. *Acta Agronomica Hungarica* 45: 268-270.
0292. Sutka J, Galiba G, Vagujfalvi A, Gill BS & Snape JW 1999 Physical mapping of the *Vrn-A1* and *Fr1* genes on chromosome 5A of wheat using deletion lines. *Theoretical & Applied Genetics* 99: 199-202.
0293. Maan SS & Kianian SF 2001 Third dominant male sterility gene in common wheat. *Wheat Information Service* 93: 27-31.
0294. Feuillet C, Penger A, Gellner K, Mast A & Keller B 2001 Molecular evolution of receptor-like kinase genes in hexaploid wheat. Independent evolution of orthologs after polyploidization and mechanisms of local rearrangements at paralogous loci. *Plant Physiology* 125: 1304-1313.
0295. Morris CF 2002 Puroindolines: the molecular genetic basis of wheat grain hardness. *Plant Molecular Biology* 48: 633-647
0296. Feuillet C & Keller B 1999 High gene density is conserved at syntenic loci of small and large grass genomes. *Proceedings of the National Academy of Sciences U.S.A.* 96: 8265-8270.
0297. Feuillet C, Reuzeau C, Kjellbom P & Keller B 1998 Molecular characterization of a new type of receptor-like kinase (wlrk) gene family in wheat. *Plant Molecular Biology* 37: 943-953.
0298. Morris CF & Allan RE 2001 Registration of hard and soft near-isogenic lines of hexaploid wheat genetic stocks. *Crop Science* 41: 935-936.
0299. Huang L & Gill BS 2001 An RGA-like marker detects all known *Lr21* leaf rust resistance gene family members in *Aegilops tauschii* and wheat. *Theoretical & Applied Genetics* 103: 1007-1013.
02100. Raupp WJ, Sukhwinder-Singh, Brown-Guerdira & Gill BS 2001 Cytogenetic and molecular mapping of the leaf rust resistance gene *Lr39* in wheat. *Theoretical & Applied Genetics* 102: 347-352.
02101. Watkins JE, Schimelfenik J & Baenziger PS 2001 Virulence of *Puccinia triticina* on wheat in Nebraska during 1997 and 1998. *Plant Disease* 85: 159-164.
02102. Singh RP, Huerta-Espino J, Rajaram S & Crossa J 2001 Grain yield and other traits of tall and dwarf isolines of modern bread and durum wheats. *Euphytica* 119: 241-244.
02103. Worland AJ, Sayers EJ & Korzun V 2001 Allelic variation at the dwarfing gene *Rht8* locus

- and its significance in international breeding programs. *Euphytica* 119: 155-159.
02104. Szunics L, Szunics Lu, Vida G, Bedo Z & Svec M 2001 Dynamics of changes in the races and virulences of wheat powdery mildew in Hungary between 1971 and 1999. *Euphytica* 119: 143-147.
02105. Robert O, Dedryver F, Leconte M, Rolland B & de Vallavieille-Pope C 2000 Combination of resistance tests and molecular tests to postulate the yellow rust resistance gene *Yr17* in bread wheat lines. *Plant Breeding* 119: 467-472.
02106. Juhasz A, Tamas L, Karsai I, Vida G, Lang L & Bedo Z 2001 Identification, cloning and characterisation of a HMW-glutenin gene from an old Hungarian wheat variety, Bankuti 1201. *Euphytica* 119: 75-79.
02107. Buonocore F, Hickman DR, Caporale C, Porceddu E, Lafiandra D, Tatham AS & Shewry PR 1996 Characterisation of a novel high  $M_r$  glutenin subunit encoded by chromosome 1D of bread wheat. *Journal of Cereal Science* 23: 55-60.
02108. Mackie AM, Lagudah ES, Sharp PJ & Lafiandra D 1996 Molecular and biochemical characterisation of HMW glutenin subunits from *Triticum tauschii* and the D genome of hexaploid wheat. *Journal of Cereal Science* 2: 213-225.
02109. Gianibelli MC, Lagudah ES, Wrigley CW & MacRitchie F 2002 Biochemical and genetic characterization of a monomeric storage protein (T1) with an unusually high molecular weight in *Triticum tauschii*. *Theoretical and Applied Genetics* 104: 497-504.
02110. Brites C & Carrillo JM 2000 Inheritance of gliadin and glutenin proteins in four durum wheat crosses. *Cereal Research Communications* 28: 239-246.
02111. Sreeramulu G & Singh NK 1997 Genetic and biochemical characterization of novel low molecular weight glutenin subunits in wheat (*Triticum aestivum* L.). *Genome* 40: 41-48.
02112. Gianibelli MC, Wrigley CW & MacRitchie F 2002 Polymorphism of low  $M_r$  glutenin subunits in *Triticum tauschii*. *Journal of Cereal Science* 35: 277-286
02113. Anderson OD, Hsia CC, Adalsteins AE, Lew EJ-L & Kasarda DD 2001 Identification of several new classes of low-molecular-weight wheat gliadin-related proteins and genes. *Theoretical and Applied Genetics* 103: 307-315.
02114. Singh NK, Donovan GR & MacRitchie F 1990 Use of sonication and size-exclusion high performance liquid chromatography in the study of wheat flour proteins II. Relative quantity of glutenin as a measure of bread-making quality. *Cereal Chemistry* 67: 161-170.
02115. Singh NK, Shepherd KW & Cornish GB 1991 A simplified SDS-PAGE procedure for separating LMW subunits of glutenin. *Journal of Cereal Science* 14: 203-208.
02116. Sreeramulu G, Vishnuvardhan D & Singh NK 1994 Seed storage protein profiles of seven Indian wheat varieties (*Triticum aestivum* L.). *Journal of Plant Biochemistry and Biotechnology* 3: 47-51.
0301. Xie CJ, Sun QX, NiZF, Yang TM, Nevo E & Fahima T 2002 Chromosomal location of a *Triticum dicoccoides*-derived powdery mildew resistance gene in common wheat by using microsatellite markers. Manuscript.
0302. Tabayashi N, Tosa Y, Oh HS & Mayama S 2002 A gene-for-gene relationship underlying the species-specific parasitism of *Avena/triticum* isolates of *Magnaporthe grisea* on wheat cultivars. *Phytopathology* 92: 1182-1188
0303. Morris CF & Allen RE 2001 Registration of hard and soft near-isogenic lines of hexaploid wheat genetic stocks. *Crop Science* 41: 935-936
0304. Morris CF & Konzak CF 2001 Registration of hard and soft homozygous waxy wheat germplasm. *Crop Science* 41: 934-935
0305. Iwaki K, Nishida J, Yanagisawa T & Yoshida H 2002 Genetic analysis of *Vrn-B1* for

- vernalization requirement by using linked dCAPS markers in bread wheat (*Triticum aestivum* L.). *Theoretical and Applied Genetics* 104: 571-576
0306. Dvorak J 1977 Transfer of leaf rust resistance from *Aegilops speltoides* to *Triticum aestivum*. *Canadian Journal of Genetics and Cytology* 19: 133-141
0307. Dvorak L & Knott DR 1980 Chromosome location of two leaf rust resistance genes transferred from *Triticum speltoides* to *T. aestivum*. *Canadian Journal of Genetics and Cytology* 22: 381-389
0308. Dubcovsky J 2002 Personal communication.
0309. Sourdille P, Cadalen T, Gay G, Gill BS & Bernard M 2002 Molecular and physical mapping of genes affecting awning in wheat. *Plant Breeding* 121: 320-324
0310. McCartney CA, Brule-Babel AL & Lamari L 2002 Inheritance of race-specific resistance to *Mycosphaerella graminicola* in wheat. *Phytopathology* 92: 138-144
0311. McCartney CA 2002 Personal communication.
0312. Shindo C, Sasakuma T, Watanabe N & Noda K 2002 Two-gene systems of vernalization requirement and narrow-sense earliness in einkorn wheat. *Genome* 45: 563-569
0313. Bouget Y, Lemoine J, Pavoine MT, Barloy D & Doussinault G 2002 Identification of a microsatellite marker associated with *Pm3* resistance alleles to powdery mildew in wheat. *Plant Breeding* 121: 325-329
0314. Boshoff WHP, Pretorius ZA & Van Niekerk BD 2002 Establishment, distribution, and pathogenicity of *Puccinia striiformis* f. sp. *tritici* in South Africa. *Plant Disease* 86: 485-492
0315. Effertz RJ, Meinhardt SW, Anderson JA, Jordahl JD & Francl LJ 2002 Identification of a chlorosis-inducing toxin from *Pyrenophora tritici-repentis* and the chromosomal location of an insensitivity locus in wheat. *Phytopathology* 92: 527-533
0316. Taketa S, Chang CL, Ishii M & Takeda K 2002 2002 Chromosome arm location of the gene controlling leaf pubescence of a Chinese local wheat cultivar 'Hong-mang-mai'. *Euphytica* 125: 141-147
0317. Lillemo M & Ringlund K 2002 Impact of puroindoline alleles on the genetic variation for hardness in soft x hard wheat crosses. *Plant Breeding* 121: 210-217
0318. Dundas IS, Frappell DE, Crack DM & Fisher JM 2001 Deletion mapping of a nematode resistance gene on rye chromosome 6R in wheat. *Crop Science* 41: 1771-1778
0319. Weng Y & Lazar MD 2002 Amplified fragment length polymorphism - and simple sequence repeat-based molecular tagging and mapping of greenbug resistance gene *Gb3* in wheat. *Plant Breeding* 121: 218-223
0320. Khabaz-Saberi H, Graham RD, Pallotta MA, Rathjen AJ & Williams KJ 2002 Genetic markers for manganese efficiency in durum wheat. *Plant Breeding* 121: 224-227
0321. Wang LF, Ma JX, Zhou RH, Wang XM & Jia JZ 2002 Molecular tagging of the yellow rust resistance gene *Yr10* in common wheat, P.I. 178383 (*Triticum aestivum* L.). *Euphytica* 124: 71-73
0322. Singrun CH, Hsam SLK, Hartl L, Zeller FJ & Mohler V 2002 Powdery mildew resistance gene *Sr22* in cultivar Virest is a member of the complex *Pm1* locus in common wheat (*Triticum aestivum* L. em Thell.). *Theoretical and Applied Genetics* (in press):
0323. Neu C, Stein N & Keller B 2002 Genetic mapping of the *Lr20-Pm1* resistance locus reveals suppressed recombination on chromosome arm 7AL in hexaploid wheat. *Genome* 45: 737-744
0324. Faris JD & Gill BS 2002 Genomic targeting and high-resolution mapping of the domestication gene Q in wheat. *Genome* 45: 706-718

0325. Singh RP 2002 Personal communication.
0326. Goodwin SB 2002 Personal communication.
0327. Yang J, Sears RG, Gill BS & Paulson GM 2002 Quantitative and molecular characterization of heat tolerance in hexaploid wheat. *Euphytica* 126: 275-282
0328. Zhou WC, Kolb FL, Bai GH, Shaner G & Domier LL 2002 Genetic analysis of scab resistance QTL in wheat with microsatellite and AFLP markers. *Genome* 45: 719-727
0329. Bansal U 2002 Personal communication.
0330. Hovmoller M 2002 Personal communication.
0331. Taketa S, Choda M, Ohashi R, Ichii M & Takeda K 2002 Molecular and physical mapping of a barley gene on chromosome 1HL that causes sterility in hybrids with wheat. *Genome* 45: 617-625
0332. Williams CE 2002 Personal communication.
0333. This publication. 2003
0334. Kolmer J 2002 Virulence phenotypes of *Puccinia triticina* in the south Atlantic states in 1999. *Plant Disease* 86: 288-291
0335. Murai K & Tsunewaki K 1995 Photoperiod-sensitive cytoplasmic male sterility induced in Japanese wheat cultivars by transferring *Aegilops crassa* cytoplasm. *Breeding Science* 45: 199-203
0336. Eliot C, Zhou FS, Spielmeyer W, Panstruga R & Schulze-Lefert P 2002 Functional conservation of wheat and rice *Mlo* orthologues in defense modulation to the powdery mildew fungus. *Molecular Plant-Microbe Interactions* 15: 1069-1077
0337. Barrett B, Bayram M & Kidwell K 2002 Identifying AFLP and microsatellite markers for vernalization response gene *Vrn-B1* in hexaploid wheat using reciprocal mapping populations. *Plant Breeding* 121: 400-406
0338. Long DL, Kolmer JA, Leonard KJ & Hughes ME 2002 Physiologic specialization of *Puccinia triticina* in the United States in 2000. *Plant Disease* 86: 981-986
0339. Huang XQ, Hsam SLK & Zeller FJ 2002 Chromosomal location of genes for resistance to powdery mildew in Chinese wheat lines Yieyan 94-1-1 and Siyan 94-2-1. *Hereditas* 136: 212-218
0340. Park RF, Bariana HS, Wellings CR & Wallwork H 2002 Detection and occurrence of a new pathotype of *Puccinia triticina* with virulence for *Lr24* in Australia. *Australian Journal of Agricultural Research* 53: 1068-1076
0341. Ahmad M & Sorrells ME 2002 Distribution of microsatellite alleles linked to *Rht8* dwarfing gene in wheat. *Euphytica* 123: 235-240
0342. Anderson JV & Morris CF 2001 An improved whole-seed assay for screening wheat germplasm for polyphenol oxidase activity. *Crop Science* 41: 1697-1705
0343. Blanco A, Pasqualone A, Troccoli A, Di Fonzo N & Simeone R 2002 Detection of grain protein content QTLs across environments in tetraploid wheats. *Plant Molecular Biology* 48: 615-623
0344. Demeke T, Morris CF, Campbell KG, King GE, Anderson JA & Chang HG 2001 Wheat polyphenol oxidase: Distribution and genetic mapping in three inbred line populations. *Crop Science* 41: 1750-1757
0345. Dong CM, Whitford R & Langridge P 2002 A DNA mismatch repair gene links to the *Ph2* locus in wheat. *Genome* 45: 116-124
0347. Groos C, Gay G, Perretant MR, Gervais L, Bernard M, Dedryver F & Charmet D 2002 Study of the relationship between pre-harvest sprouting and grain color by quantitative trait

- loci analysis in a white x red grain bread-wheat cross. *Theoretical and Applied Genetics* 104: 39-47
0348. Gupta PK, Balyan HS, Edwards KJ, Isaac P, Korzun V, Roder M, Gautier MF, Joudrier P, Schlatter AR, Dubcovsky J, De la Pena RC, Khairallah M, Penner G, Hayden MJ, Sharp P, Keller B, Wang RCC, Hardouin JP, Jack P & Leroy P 2002 Genetic mapping of 66 new microsatellite (SSR) loci in bread wheat. *Theoretical and Applied Genetics* 105: 413-422
0349. Guyomarc'h H, Sourdille P, Charmet G, Edwards KJ & Bernard M 2002 Characterisation of polymorphic microsatellite markers from *Aegilops tauschii* and transferability to the D-genome of bread wheat. *Theoretical and Applied Genetics* 104: 1164-1172
0350. Ikeda TM, Nagamine T, Fukuoka H & Yano H 2002 Identification of new low-molecular-weight glutenin subunit genes in wheat. *Theoretical and Applied Genetics* 104: 680-687
0351. Weng Y & Lazar MD 2002 Comparison of homoeologous group-6 short arm physical maps of wheat and barley reveals a similar distribution of recombinogenic and gene-rich regions. *Theoretical and Applied Genetics* 104: 1078-1085
0352. Liu XM, Smith CM & Gill BS 2002 Identification of microsatellite markers linked to Russian wheat aphid resistance genes *Dn4* and *Dn6*. *Theoretical and Applied Genetics* 104: 1042-1048
0353. Miller CA, Altinkut A & Lapitan NLV 2001 A Microsatellite marker for tagging *Dn2*, a wheat gene conferring resistance to the Russian wheat aphid. *Crop Science* 41: 1584-1589
0354. Mingeot D, Chantret N, Baret PV, Dekeyser A, Boukhatem N, Sourdille P, Doussinault G & Jacquemin JM 2002 Mapping QTL involved in adult plant resistance to powdery mildew in the winter wheat line RE714 in two susceptible genetic backgrounds. *Plant Breeding* 121: 133-140
0356. Pueyo A, Figueiras AM & Benito C 2002 Is the Mnr locus of Triticeae species the same as the *Ndh* and *Dia* loci? *Theoretical and Applied Genetics* 104: 513-517
0357. Smith PH, Koebner RMD & Boyd LA 2002 The development of a STS marker linked to a yellow rust resistance derived from the wheat cultivar Moro. *Theoretical and Applied Genetics* 104: 1278-1282
0358. Spielmeier W, Sharp PJ & Lagudah ES 2003 Identification and validation of markers linked to broad-spectrum stem rust resistance gene *Sr2* in wheat (*Triticum aestivum* L.). *Crop Science* 43: 333-346
0359. Wang XW, Lai JR, Liu GT & Chen F 2002 Development of a scar marker for the *Ph1* locus in common wheat and its application. *Crop Science* 42: 1365-1368
0360. Spielmeier W, Huang L, Bariana H, Laroche A, Gill BS & Lagudah E 2000 NBS-LRR sequence family is associated with leaf and stripe rust resistance on the end of homoeologous chromosome group 1S of wheat. *Theoretical & Applied Genetics* 101: 1139-1144
0361. Aoki N, Whitfield P, Hoeren F, Scofield G, Newell K, Patrick J, Offler C, Clarke B, Rahman S & Furbank RT 2002 Three sucrose transporter genes are expressed in the developing grain of hexaploid wheat. *Plant Molecular Biology* 50: 453-462
0362. Batey IL, Hayden MJ, Cai S, Sharp PJ, Cornish GB, Morell MK & Appels R 2002 Genetic mapping of commercially significant starch characteristics in wheat crosses. *Australian Journal of Agricultural Research* 52: 1287-1296
0363. Bougot Y, Lemoine J, Pavoine MT, Barloy D & Doussinault G 2002 Identification of a microsatellite marker associated with *Pm3* resistance alleles to powdery mildew in wheat. *Plant Breeding* 121: 325-329
0364. Bullrich L, Appendino ML, Tranquilli G, Lewis S & Dubcovsky J 2002 Mapping of a thermo-sensitive earliness per se gene on *Triticum monococcum* chromosome 1A(m).

- Theoretical and Applied Genetics 105: 585-593
0365. Elouafi I, Nachit MM & Martin LM 2001 Identification of a microsatellite on chromosome 7B showing a strong linkage with yellow pigment in durum wheat (*Triticum turgidum* L. var. *durum*). *Hereditas* 135: 255-261
0366. Eujayl I, Sorrells ME, Baum M, Wolters P & Powell W 2002 Isolation of EST-derived microsatellite markers for genotyping the A and B genomes of wheat. *Theoretical and Applied Genetics* 104: 399-407
0367. Hessler TG, Thomson MJ, Benscher D, Nachit MM & Sorrells ME 2002 Association of a lipoxygenase locus, *Lpx-B1*, with variation in lipoxygenase activity in durum wheat seeds. *Crop Science* 42: 1695-1700
0368. Holton TA, Christopher JT, McClure L, Harker N & Henry RJ 2002 Identification and mapping of polymorphic SSR markers from expressed gene sequences of barley and wheat. *Molecular Breeding* 9: 63-71
0369. Kato K, Kidou S, Miura H & Sawada S 2002 Molecular cloning of the wheat CK2 alpha gene and detection of its linkage with *Vrn-A1* on chromosome 5A. *Theoretical and Applied Genetics* 104: 1071-1077
0370. Mohler V, Klahr A, Wenzel G & Schwarz G 2002 A resistance gene analog useful for targeting disease resistance genes against different pathogens on group 1S chromosomes of barley, wheat and rye. *Theoretical and Applied Genetics* 105: 364-368
0371. Nomura T, Ishihara A, Imaishi H, Endo TR, Ohkawa H & Iwamura H 2002 Molecular characterization and chromosomal localization of cytochrome P450 genes involved in the biosynthesis of cyclic hydroxamic acids in hexaploid wheat. *Molecular Genetics and Genomics* 267: 210-217
0372. Otto CD, Kianian SF, Elias EM, Stack RW & Joppa LR 2002 Genetic dissection of a major *Fusarium* head blight QTL in tetraploid wheat. *Plant Molecular Biology* 48: 625-632
0373. Sandhu D, Sidhu D & Gill KS 2002 Identification of expressed sequence markers for a major gene-rich region of wheat chromosome group 1 using RNA fingerprinting-differential display. *Crop Science* 42: 1285-1290
0374. Williams KJ, Taylor SP, Bogacki P, Pallotta M, Bariana HS & Wallwork H 2002 Mapping of the root lesion nematode (*Pratylenchus neglectus*) resistance gene *Rlnn1* in wheat. *Theoretical and Applied Genetics* 104: 874-879
0375. Spielmeyer W & Lagudah ES 2002 Homoeologous set of NBS-LRR genes located at leaf and stripe rust resistance loci on short arms of chromosome 1 of wheat. *Functional & Integrative Genomics* (in press):
0376. Frick MM, Huel R, Nykiforuk CL, Conner RL, Kusyk A & Laroche A 1998 Molecular characterisation of a wheat stripe rust resistance gene in Moro wheat. Slinkard AE (ed) *Proceedings 9th International Wheat Genetics Symposium* 3: 181-182
0377. Mago R, Spielmeyer W, Lawrence GJ, Lagudah ES, Ellis JG & Pryor A 2002 Identification and mapping of molecular markers linked to rust resistance genes located on chromosome 1RS of rye using wheat-rye translocation lines. *Theoretical and Applied Genetics* 104: 1317-1324
0378. Ellis MH, Spielmeyer W, Gale KR, Rebetzke GJ & Richards RA 2002 "Perfect" markers for the *Rht-B1b* and *Rht-D1b* dwarfing genes in wheat. *Theoretical and Applied Genetics* 105: 1038-1042
0379. Rebetzke GJ, Appels R, Morrison AD, Richards RA, McDonald G, Ellis MH, Spielmeyer W & Bonnett DG 2001 Quantitative trait loci on chromosome 4B for coleoptile length and early vigour in wheat (*Triticum aestivum* L.). *Australian Journal of Agricultural Research* 52:

- 1221-1234
0380. Muranty H, Jahier J, Tanguy A-M, Worland AJ & Law CN 2002 Inheritance of wheat to eyespot at the adult stage. *Plant Breeding* 121: 539-541
0381. Bettge AD, Morris CF & Greenblatt GA 1995 Assessing genotypic softness in single wheat kernels using starch granule-associated friabilin as a biochemical marker. *Euphytica* 86: 65-72
0382. Blochet JE, Chevalier C, Forest E, Pebay-Peyroula E, Gautier MF, Joudrier P, Pezolet M & Marion D 1993 Complete amino acid sequence of puroindoline, a new basic and cystine-rich protein with a unique tryptophan-rich domain, isolated from wheat by Triton X-114 phase partitioning. *Federation of European Biochemical Societies Letters* 329: 336-340
0383. Turner M, Mukai Y, Leroy B, Charef B, Appels R & Rhaman S 1999 The *Ha* locus of wheat: Identification of a polymorphic region for tracing grain hardness in crosses. *Genome* 42: 1242-1248
0384. Rahman S, Jolly CJ Skerritt JH & Walloscheck A 1994 Cloning of a wheat 15-kDa grain softness protein (GSP). *European Journal of Biochemistry* 223: 917-925
0385. S. Cloutier 2003 Personal communication.
03101. Urbano M, Margiotta B, Colaprico G & Lafiandra D 2002 Waxy proteins in diploid, tetraploid and hexaploid wheats. *Plant Breeding* 121: 465-468
03102. Sun Q, Wei Y, Ni C, Xie C & Yang T 2002 Microsatellite marker for yellow rust resistance gene *Yr5* introgressed from spelt wheat. *Plant Breeding* 121: 539-541
03103. Gautier, MF, Cosson P, Guirao A, Alary R & Joudrier P 2000 Puroindoline genes are highly conserved in diploid ancestor wheats and related species but absent in tetraploid *Triticum* species. *Plant Science* 153: 81-91
03104. Lillemo M., Simeone MC & Morris CF 2002 Analysis of puroindoline a and b sequences from *Triticum aestivum* cv. 'Penawawa' and related diploid taxa. *Euphytica* 126: 321-331
03105. Massa AN, Morris CF & Gill BS 2003 Personal communication.
03106. Morris CF, DeMacon VL & Giroux MJ 1999 Wheat grain hardness among chromosome 5D homozygous recombinant substitution lines using different methods of measurement. *Cereal Chemistry* 76: 249-254
03107. Morris CF & King GE 2002 Registration of soft and hard red winter wheat near-isogenic sister lines of 'Weston'. *Crop Science* 42: 2218-2219
03108. Morris CF, Simeone MC, Gill BS, Mason-Gamer RJ & Lillemo M 2001 Comparison of puroindoline sequences from various diploid members of the triticeae and modern cultivated hexaploid wheats. *Cereals 2000. Proceedings 11th ICC Cereal & Bread Congress and the 50th Australian Cereal Chemistry Conference* M Wootton, IL Batey & CW Wrigley (eds) Royal Australian Chemical Institute, North Melbourne, Victoria, Australia. 678-681
03109. Symes K.J 1969 Influence of a gene causing hardness on the milling and baking quality of two wheats *Australian Journal of Agriculture Research* 20: 971-979
03110. Gautier MF, Aleman ME, Guirao A, Marion D & Joudier P 1994 *Triticum aestivum* puroindolines, two basic cystine-rich seed proteins: cDNA analysis and developmental gene expression. *Plant Molecular Biology* 25: 43-57
03111. Jolly CJ, Rahman S, Kortt AA & Higgins TJ 1990 Characterisation of grain-softness protein, a marker of endosperm texture in wheat. *Royal Australian Chemical Institute* 92-95
03112. Alvarez JB, Campos LAC, Martin A, Sillero JA, Martin LM 1999 Genetic analysis of prolamins synthesised by the Hch genome and their effects on gluten strength in hexaploid tritordeum. *Euphytica* 107: 177-184
03113. Alvarez JB, Martin A, Martin LM 1999 Allelic variation of the D-prolamin subunits



- encoded at the H<sup>ch</sup> genome in a collection of primary hexaploid tritordeums. *Theoretical and Applied Genetics* 99: 296-299
03114. Alvarez JB, Martin A & Martin LM 2001 Variation in the high-molecular-weight glutenin subunits coded at the Glu-Hch1 locus in *Hordeum chilense*. *Theoretical and Applied Genetics* 102: 134-137
03115. Amiour N, Bouguennec A, Marcoz C, Sourdille P, Bourgoïn M, Khelifi D & Branlard G 2002 Diversity of seven glutenin and secalin loci within triticale cultivars grown in Europe. *Euphytica* 123: 295-305
03116. Amiour N, Dardevet A, Khelifi D, Bouguennec A & Branlard G 2002 Allelic variation of HMW and LMW glutenin subunits, HMW secalin subunits and 75K gamma-secalins of hexaploid triticale. *Euphytica* 123: 179-186
03117. Amiour N, Jahier J, Tanquy AM, Chiron H & Branlard G 2002 Effect of 1R(1A), 1R(1B) and 1R(1D) substitution on technological value of bread wheat. *Journal of Cereal Science* 35: 149-160
03120. Branlard G, Dardevet M, Amiour N & Igrejas G 2003 Allelic diversity of the HMW and LMW glutenin subunits and  $\omega$ -mega-gliadins in French bread wheat (*Triticum aestivum* L.). *Genetic Resources and Crop Evolution* (in press):
03121. Brzezinski W & Lukaszewski AJ 1998 Allelic variation at the Glu-1, Sec-2 and Sec-3 in winter triticale. P. Juskiew (Ed.), Proc. 4th International Triticale Symposium, Alberta Vol. II: 6-12
03122. Caballero L, Martin LM & Alvarez JB 2001 Allelic variation of the HMW glutenin subunits in Spanish accessions of spelt wheat (*Triticum aestivum* ssp. *spelta* L. em. Thell.). *Theoretical and Applied Genetics* 103: 124-128
03123. Dubcovsky J, Bullrich L, Echaide M, Schlatter AR, Manifesto M, Tranquilli G, Pfluger L, Feingold S, Barneix AJ, Hopp EH & Suarez EY 1998 Determinantes genéticos de la calidad panadera de los trigos argentinos. *RIA* 29: 1-30
03124. Gianibelli MC, Gupta RB, Lafiandra D, Margiotta B & MacRitchie F 2001 Polymorphism of high Mr glutenin subunits in *Triticum tauschii*: Characterization by chromatography and electrophoretic methods. *Journal of Cereal Science* 33: 39-52
03125. Gianibelli MC, Masci S, Larroquet OR, Lafiandra D & MacRitchie F 2002 Biochemical characterisation of a novel polymeric protein subunit from bread wheat (*Triticum aestivum* L.). *Journal of Cereal Science* 35: 265-276
03126. Gianibelli MC & Solomon RG 2003 A novel y-type high Mr glutenin subunit (12.4t) present in *Triticum tauschii*. *Journal of Cereal Science* 37: 253-256
03127. Igrejas G, Guedes-Pinto H, Carnide V & Branlard G 1999 Seed storage protein diversity in triticale varieties commonly grown in Portugal. *Plant Breeding* 118: 303-306
03129. Islam N, Woo SH, Tsujimoto H, Kawasaki H & Hirano H 2002 Proteome approaches to characterize seed storage proteins related to ditelocentric chromosomes in common wheat (*Triticum aestivum* L.). *Proteomics* 2: 1146-1155
03130. Larroque O, Gianibelli MC & MacRitchie F 1999 Protein composition for pairs of wheat lines with contrasting dough extensibility. *Journal of Cereal Science* 29: 27-31
03131. Liu C.-Y & Shepherd KW 1996 Variation of B subunits of glutenin in durum, wild and less widely cultivated tetraploid wheats. *Plant Breeding* 115: 172-178
03132. Luo C, Griffin WB, Branlard G & McNeil DL 2001 Comparison of low- and high molecular-weight wheat glutenin allele effects on flour quality. *Theoretical and Applied Genetics* 102: 1088-1098
03133. Margiotta B, Colaprico G, D'Amico R & Lafiandra D 1993 Characterization of high Mr

- subunits of glutenin by combined chromatographic (RP-HPLC) and electrophoretic separations and restriction fragment length polymorphism (RFLP) analyses of their coding genes. *Journal of Cereal Science* 17: 221-236
03134. Masci S, Rovelli L, Kasarda DD, Vensel WH & Lafiandra D 2002 Characterisation and chromosomal localisation of C-type low- molecular-weight glutenin subunits in the bread wheat cultivar Chinese Spring. *Theoretical and Applied Genetics* 104: 422-428
03135. Nagamine T, Kai Y, Takayama T, Yanagisawa T & Taya S 2000 Allelic variation at the *Glu-1* and *Glu-3* loci in Southern Japanese wheats, and its effects on gluten properties. *Journal of Cereal Science* 32: 129-135
03136. Payne PI, Jackson EA & Holt LM 1984 The association between gamma-gliadin 45 and gluten strength in durum wheat varieties: a direct causal effect or the result of genetic linkage? *Journal of Cereal Science* 2: 73-81
03137. Pfluger LA, Martin LM & Alvarez JB 2001 Variation in the HMW and LMW glutenin subunits from Spanish accessions of emmer wheat (*Triticum turgidum* ssp. *dicoccum* Schrank). *Theoretical and Applied Genetics* 102: 767-772
03138. Raciti CN, Doust MA, Lombardo GM, Boggini G, Pecetti L 2003 Characterization of durum wheat mediterranean germplasm for high and low molecular weight glutenin subunits in relation with quality. *European Journal of Agronomy* (in press):
03139. Rozinek B, Gunther T & Hesemann CU 1998 Gel electrophoretic investigations of prolamins in eu- and alloplasmatic octoploid primary triticale forms. *Theoretical and Applied Genetics* 96: 46-51
03140. Ruiz, M & Carrillo JM 1995 Relationships between different prolamins and some quality properties in durum wheat. *Plant Breeding* 114: 40-44
03141. Ruiz M, Rodriguez-Quijano M, Metakovsky EV, Francisco Vazquez J & Carrillo JM 2002 Polymorphism, variation and genetic identity of Spanish common wheat germplasm based on gliadin alleles. *Field Crops Research* 79: 185-196
03142. Tranquilli G, Cuniberti M, Gianibelli MC, Bullrich L, Larroque OR, MacRitchie F & Dubcovsky J 2002 Effect of *Triticum monococcum* glutenin loci on cookie making quality and on predictive tests for bread making quality. *Journal of Cereal Science* 36: 9-18
03143. Vaccino P, Redaelli R, Metakovsky EV, Borghi B, Corbellini M & Pogna NE 2002 Identification of novel low M-r glutenin subunits in the high quality bread wheat cv Salmone and their effects on gluten quality. *Theoretical and Applied Genetics* 105: 43-49
10001. Tsunewaki K and Ebona K 1999 Production of near-isogenic lines of common wheat for glaucousness and genetic basis of this trait clarified by their use. *Genes and Genetic Systems* 74: 33-41
10002. Kato K, Nakagawa K & Kuno H 1993 Chromosomal location of the genes for vernalization response *Vrn2* and *Vrn4* in common wheat, *Triticum aestivum* L. *Wheat Information Service* 76: 53
10003. Iwaki K, Haruna S, Niwa T & Kato K. 2001 Adaptation and ecological differentiation in wheat habit and *Vrn* genotype. *Plant Breeding* 120: 107-114
10004. Kato K. 2003 Personal communication
10005. Kato K, Ikoma H & Hayashi K. 1988. Geographical distribution of the genes for vernalization response and its implication for the adaptability of wheat. *Proceedings of the 7th International Wheat Genetics Symposium, Cambridge, U.K.* (Miller TE & Koebner RMD, eds.) Vol 1 pp533-539.
10006. Iwaki K, Nishida J, Yanagasawa H, Yoshida X & Kato K 2002 Genetic analysis of *Vrn-B1* for vernalization requirement by using linked dCAPS markers in bread wheat (*Triticum*

- aestivum*L). Theoretical and Applied Genetics 104: 571-576
10007. Leonova I, Pestova E, Salina E, Efremova T, Roder M & Borner A 2003 Mapping of the *Vrn-B1* gene in *Triticum aestivum* using microsatellite markers Plant Breeding 122: 209-212