

**AAFC**, 2009. Agriculture and Agri-Food Canada. Regional information for Latin America and the Caribbean. <http://www.ats.agr.gc.ca/lat/3947-eng.pdf>.

**Abayomi**, Y., and D. Wright, 1999. Effects of water stress on growth and yield of spring wheat (*Triticum aestivum* L.) cultivars. *Trop. Agric.* 76: 120–125.

**Abbate**, P.E., F.H. Andrade and J.P. Culot, 1995. The effect of radiation and nitrogen on number of grains in wheat. *J. Agric. Sci.* 124: 351-360.

**Acuña**, A., G. Ghezan, N. Scheggia and P. Berlanga, 1982. "Algunos aspectos de la producción y comercialización de trigo fideo". Boletín Técnico Nº 89, INTA, EEA Balcarce.

**Ali**, A.A., A.S. Fahmy and S.A. Mohamed, 2003. Molecular characterization of wheat *Triticum aestivum* cultivars using isoenzyme analysis and RAPD fingerprint. *BNRC* (Cairo), 28 (6): 735-747.

**Ammiraju**, J.S.S., B.B. Dholakia, D.K. Santra, H. Singh, M.D. Lagu, S.A. Tamhankar, H.S. Dhaliwal, V.S. Rao, V.S. Gupta and P.K. Ranjekar, 2001. Identification of inter simple sequence repeat (ISSR) markers associated with seed size in wheat. *Theor. Appl. Genet.* 102: 726–732.

**Araki**, E., H. Miura and S. Sawada, 1999. Identification of genetic loci affecting amylose content and agronomic traits on chromosome 4A of wheat. *Theor. Appl. Genet.* 98: 977-984.

**Ashraf**, M. and M.R. Foolad, 2005. Pre-sowing seed treatment-a shotgun approach to improve germination, plant growth and crop yield under saline and non saline conditions. *Adv. Agron.* 88: 223-271.

**Aycicek** M. and T. Yildirim, 2006. Path coefficient analysis of yield and yield components in bread wheat (*Triticum aestivum* L.) genotypes. *Pak. J. Bot.* 38(2): 417-424.

**Basten** C.J., B.S. Weir, Z-B. Zeng, 2001. QTL cartographer: a reference manual and tutorial for QTL mapping. Department of Statistics, NCSU, Raleigh. pp. 55-72.

**Belaid**, A., 2000. Durum wheat in WANA: production, trade, and gains from technological change. In: N. Di Fonzo, F. Kaan and M. Nachit (Eds.), *Durum Wheat Improvement in the Mediterranean Region: New challenges*. Options Méditerraneens, CIHEAM, Zaragoza (40): 35-50.

**Berghaller**, W.J., 1997. New uses of wheat gluten and non-starch wheat components. In: J.L. Steele and O.K. Chung (Eds.), *Proceedings of the First International Wheat Quality Conference*. Grain Industry Alliance, Kansas, USA. pp. 285–301.

**Bhutta**, W.M., I. Mian and T. Bhutta, 2006. Comparison of water relations and drought related flag leaf traits in hexaploid spring wheat (*Triticum aestivum* L.). *Plant Soil Environ.* 52: 234–238.

**Blanco** A., M.P. Bellomo, A. Cenci, C. De Giovanni, R. D'Ovidio, E. Iacono, B. Laddomada, M.A. Pagnotta, E. Porceddu, A. Sciancalepore, R. Simeone and O.A. Tanzarella, 1998. A genetic linkage map of durum wheat. *Theor. Appl. Genet.* 97: 721-728.

**Blanco**, A., R. Simeone, A. Cenci, A. Gadaleta, O. A. Tanzarella, E. Porceddu, S. Salvati, R. Tuberosa, G. Figliuolo, P. Spagnoletti, M. S. Röder and V. Korzun, 2004. Extension of the messapia x dicoccoides Linkage map of *Triticum turgidum* (L.) Thell. *Cel. Mol. Bio. Let.* 9: 529-541.

**Börner**, A., E. Schumann, A. Fürste, H. Cöster, B. Leithold, M.S. Röder and W. E. Weber, 2002. Mapping of quantitative trait loci determining agronomic important characters in hexaploid wheat (*Triticum aestivum* L.). *Theor. Appl. Genet.* 105: 921-936.

**Boyer**, J.S, 1982. Plant productivity and environment. *Science* 218: 443-448.

**Bozzini**, A., 1988. Origin, distribution, and production of durum wheat in the world. In: G. Fabriani and C. Lintas (Eds), *Durum Wheat: Chemistry and Technology*. AACC, St. Paul, Minnesota, p. 229.

**Brim**, C. A, 1966. A modified pedigree method of selection in soybeans. *Crop Science*, Madison 6, p.220.

**Calderini**, D.F., M.F. Dreccer and G.A. Slafer, 1995. Genetic improvement in wheat yield and associated traits- a reexamination of previous results. *Plant Breed.* 114 (2): 108- 112.

**Campbell**, B. T., P.S. Baenziger, K.S. Gill, K.M. Eskridge, H. Budak, M. Erayman, I. Dweikat and Y. Yen, 2003. Identification of QTLs and Environmental Interactions Associated with Agronomic Traits on Chromosome 3A of Wheat. *Crop Sci.* 43: 1493–1505.

**Chagué**, V., T. Fahima, A. Dahan, G. L. Sun, A. B. Korol, Y. I. Ronin, A. Grama, M. S. Röder and E. Nevo, 1999. Isolation of microsatellite and RAPD markers flanking the Yr15 gene of wheat using NILs and bulked segregant analysis. *Genome* 42: 1050-1056.

**Chalmers**, K.J., A.W. Campbell, J. Kretschmer, A. Karakousis, P.H. Henschke, S. Pierens, N. Harker, M. Pallotta, G.B. Cornish, M.R. Shariflou, L.R. Rampling, A. McLauchlan, G. Daggard, P. J. Sharp, T. A. Holton, M.W. Sutherland, R. Appels, and P. Landgridge, 2001. Construction of three linkage maps in bread wheat, *Triticum aestivum*. *Aust. J. Agric. Res.* 52: 1089-1119.

**Chen** Z., Devey M., Tuleen N.A., Hart G.E. 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.). *Theor. Appl. Genet.* 89(6): 703-712.

**Chmielewski**, F. and W. Kohn, 2000. Impact of weather on yield components of winter rye over 30 years. *Agric. Forest Meteorol.* 102: 253–261.

**Churchill, G.A. and R.W. Doerge, 1994.** Empirical threshold values for quantitative trait mapping. *Genetics* 138:963-971.

**Clarke**, F.R., J.M. Clarke and R.E. Knox, 2002. Inheritance of stem solidness in eight durum wheat crosses. *Can. J. Plant Sci.* 82: 661-664.

**Collard**, B.C.Y., M.Z.Z. Jahufer, J.B. Brouwer and E.C.K. Pang, 2005. An introduction to markers, quantitative trait loci (QTL) mapping and marker-assisted selection for crop improvement: The basic concepts. *Euphytica* 142: 169-196.

**Cruz**, C.D., 1997. Programa Genes: aplicativo computacional em genética e estatística. pp. 442. Viçosa: Editora UFV.

**Cuthbert**, J.L., D.J. Somers, A.L. Brulé-Babel, P.D. Brown and G.H. Crow, 2008. Molecular mapping of quantitative trait loci for yield and yield components in spring wheat (*Triticum aestivum L.*). *Theor. Appl. Genet.* 117(4): 595-608.

**Demarie**, G., L. Viteri and G. Ghezan, 1999. Agricultura de contrato en el cultivo de trigo candeal. Instituto Nacional de Tecnología Agropecuaria, Estación Experimental Agropecuaria Balcarce. Bulletin.

**Del Moral**, L.G., Y. Rharrabti, D. Villegas and C. Royo, 2003. Evaluation of Grain Yield and Its Components in Durum Wheat under Mediterranean Conditions: An Ontogenetic Approach. *Agron. J.* 95: 266-274.

**Del Moral**, L.G., Y. Rharrabti, S. Elhani, V. Martos and C. Royo, 2005. Yield Formation in Mediterranean durum wheats under two contrasting water regimes based on path-coefficient analysis. *Euphyt.* 146: 203-212.

**Deorge**, R. and G.A. Churchill, 1996. Permutation test for multiple loci affecting a quantitative character. *Genetics* 142: 285-294.

**Devos**, K.M. and M.D. Gale, 1993. Extended genetic maps of the homoeologous group-3 chromosomes of wheat, rye and barley. *Theor. Appl. Genet.* 85: 649-652.

**Devos** K.M., J. Dubcovsky, J. Dvorak, C.N. Chinoy and M.D. Gale, 1995. Structural evolution of wheat chromosomes 4A, 5A, and 7B and its impact on recombination. *Theor. Appl. Genet.* 91: 282-288.

**Diab**, A.A., A.H. Fahmy, O.S. Hassan, M.M. Nachit and O.A. Momtaz, 2007. Identification of chromosomal regions and genetic contributions of genes controlling yield and other agronomic traits in durum wheat grown under different Egyptian environmental conditions. *World J. agri. Sci.* 3 (4): 401-422.

**Dilbirligi**, M., M. Erayman, B.T. Campbell, H.S. Randhawa, P.S. Baenziger, I. Dweikat and K.S. Gill, 2006. High-density mapping and comparative analysis of agronomically important traits on wheat chromosome 3A. *Genomics* 88(1): 74-87.

**Donmez**, E., R.G. Sears, J.P. Shroyer and G.M. Paulsen, 2000. Evaluation of winter durum wheat for Kansas. *Keeping Up With Research* 125, KAES/CES, Manhattan, KS.

**Du**, C., N.A. Tuleen and G.E. Hart, 1995. Extended RFLP linkage maps of chromosomes 6A and 6B of Tetraploid Wheat (*Triticum turgidum L.*). *Plant Genome IV Conference*, San Diego, CA. p. 131.

**Eberhart**, S.A. and W.A. Russel, 1966. Stability parameters for comparing varieties. *Crop. Sci.* 6: 36-40.

**Elouafi**, I. and M.M. Nachit, 2004. A genetic linkage map of the Durum x *Triticum dicoccoides* backcross population based on SSRs and AFLP markers, and QTL analysis for milling traits. *Theor. Appl. Genet.* 108: 401-413.

**Esmail**, R.M., 2001. Correlation and path coefficient analysis of some quantitative traits with grain yield in bread wheat (*Triticum aestivum L.*). *Bull. NRC, Egypt* 26(3): 395-408.

- Faridi**, M.A., 1988. Flat breads, in Wheat Chemistry &Technology. Volume II, 3rd edn. (Ed. Y. Pomeranz), American Association of Cereal Chemists, St. Paul, Minnesota, USA. pp. 457-498.
- Fehr**, W.R., 1982. Control of iron-deficiency chlorosis in soybeans by plant breeding. *J. Plant Nutr.* 5: 611-621.
- Ferreira** M.E. and D. Grattapaglia, 1996. Introdução ao uso de marcadores moleculares em análise genética. EMBRAPA-CENARGEN 20. p. 220.
- Finlay**, K.W. and G.N. Wilkinson, 1963. The analysis of adaptation in a plant-breeding programme. *Aust. J. Agric. Res.* 14: 742-754.
- Freitas**, L. B. de, L. Jerusalinsky, S.L. Bonatto and F.M. Salzano, 2000. Extreme homogeneity among brazilian wheat genotypes determined by RAPD markers. *Pesq. agropec. bras.*, Brasília 35 (11): 2255-2260.
- Gallagher**, J.N. and P. V. Biscoe, 1978. Radiation absorption, growth and yield of cereals. *J. Agric. Sci. Camb.* 19: 47-60.
- Giunta**, F., R. Motzo and M. Deidda, 1993. Effect of drought on yield and yield components of durum wheat and triticale in a Mediterranean environment. *Field Crops Res.* 33: 399-409.
- Gorjanović**, B. and M. Kraljević-Balalić, 2006. Correlations among yield components in durum wheat. *Genetika* 38 (2): 115-120.
- Griffiths**, A.J.F., J.H. Miller, D.T. Suzuki, R.C. Lewontin and W.M. Gelbart, 1996. An introduction to genetic analysis. W.H. Freeman (Ed.). NY, USA.
- Griffiths**, A.J.F., J.H. Miller, D.T. Suzuki, R.C. Lewontin and W.M. Gelbart, 1998. An introduction to Genetic analysis. W.H. Freeman (Ed.). NY, USA.
- Groos**, C., N. Robert, E. Bervas and G. Charmet, 2003. Genetic analysis of grain protein-content, grain yield and thousand-kernel weight in bread wheat. *Theor. Appl. Genet.* 106: 1032–1040.
- Gupta**, P.K., H.S. Balyan, K.J. Edwards, P. Isaac, V. Korzun, M. Röder, M.F. Gautier, P. Joudrier, A.R. Schlatter, J.Dubcovsky, R.C. De la Pena, M. Khairallah, G. Penner, M.J. Hayden, P. Sharp, B. Keller, R.C.C. Wang, J.P. Hardouin, P. Jack and P. Leroy, 2002. Genetic mapping of 66 new microsatellite (SSR) loci in bread wheat. *Theor. Appl. Genet.* 105: 413-422.
- Haldane**, J.B.S., 1919. The recombination of linkage values and calculation of distance between the loci of linkage factors. *J. Genet.* 8: 299-309.
- Hartl**, D.L. and E.W. Jones, 2001. Analysis of genes and genomes. Jones and Bartlett (Ed.). Massachusetts. USA.
- Heitholt**, J. J., L.I. Croy, N. Manes and H.T. Nguyen, 1990. Nitrogen partitioning in genotypes of winter wheat differing in grain N concentration. *Field Crop Res.*, 23: 133-144.
- Heun**, M., R. Schäfer-Pregl, D. Klawan, R. Castagna, M. Accerbi, B. Borghi and F. Salamini, 1997. Site of Einkorn Wheat Domestication Identified by DNA Fingerprinting. *Science* 278 (5341): 1312-1314.

Huang, X.Q., H. Kempf, M.W. Ganal and M.S. Röder, 2004. Advanced backcross QTL analysis in progenies derived from a cross between a German elite winter wheat variety and a synthetic wheat (*Triticum aestivum* L.). *Theor. Appl. Genet.* 109: 933-943.

Huang, X.Q., S. Cloutier, L. Lycar, N. Radovanovic, D.G. Humphreys, J.S. Noll, D.J. Somers and P.D. Brown, 2006. Molecular detection of QTLs for agronomic and quality traits in a doubled haploid population derived from two Canadian wheats (*Triticum aestivum* L.). *Theor. Appl. Genet.* 113:753-766.

IGC, 2008. International grains Commission 7/11/08 xldata/world/all wheat/wheat/prod.

Info-Gen. 2004. Software estadístico para análisis de datos genéticos. Arg., Balzarini M., Di Rienzo J.A. RDNDA, OS, N 362964 (<http://www.info-gen.com.ar>).

Jamali, K.D. and S.A. Ali, 2008. Yield and Yield components with relation to plant height in semi-dwarf wheat. *Pak. J. Bot.* 40 (4): 1805-1808.

Janda, J., J. Bartoš, J. Šafář, M. Kubaláková, M. Valárik, J. Číhalíková, H. Šimková, M. Caboche, P. Sourdielle, M. Bernard, B. Chalhoub and J. Doležel, 2004. Construction of a subgenomic BAC library specific for chromosomes 1D, 4D and 6D of hexaploid wheat. *Theor. Appl. Genet.* 109: 1337-1345.

Jansen, R., 1993. Interval mapping of multiple quantitative loci. *Genetics* 135: 205-211.

Jansen, R. and P. Stam, 1994. High resolution of quantitative traits into multiple loci via interval mapping. *Genetics* 136: 1447-1455.

Jones, N., H. Ougham and H. Thomas, 1997. Markers and mapping: We are all geneticists now. *New Phytol.* 137: 165-177.

Kato, K., H. Miura and S. Sawada, 1999. QTL mapping of genes controlling ear emergence time and plant height on chromosome 5A of wheat. *Theor. Appl. Genet.* 98: 472-477.

Kato, K., H. Miura and S. Sawada, 2000. Mapping QTLs controlling grain yield and its components on chromosome 5A of wheat. *Theor. Appl. Genet.* 101: 1114-1121.

Kearsey, M.J. and H. S. Pooni, 1996. The Genetical Analysis of Quantitative Trait. Chapman and Hall, London.

Khan M.A., I. Hussain and M.S. Baloch, 2000. Wheat yield potential – Current status and future strategies. *Pak. J. Biol. Sci.* 3 (1): 82-86.

Khan, I.A., F.S. Awan, A. Ahmad, Y.B. Fu and A. Iqbal, 2005. Genetic diversity of Pakistan wheat germplasm as revealed by RAPD markers. *Genet. Resour. Crop Evol.* 52 (3): 239-244.

Kirigwi, F.M., M. Van Ginkel, G. Brown-Guedira, B.S. Gill, G.M. Paulsen and A.K. Fritz, 2007. Markers associated with a QTL for grain yield in wheat. *Mol. Breeding* 20: 401-413.

Kislev, M.E., 1985. Emergence of wheat agriculture. *Palaeorient.* 10(2): 61-70.

Kobiljski B. and S. Dencić, 1997. Karakteristike klasa-selekcioni kritarijum za prinos pčenice.

Selekcija i semenarstvo 4 (3-4), 17-22.

**Hittalmani S.,** T.N. Girish, H. Biradar and P.J. Maughan, 2008. Mapping Populations: Development, Descriptions and Deployment. In: Kole, C. and A. G. Abbott (Eds.), Principles and Practices of Plant Genomics Volume 1: Genome Mapping. Science publishers. pp.69-91.

**Korzun**, V., M.S. Röder, K. Wendehake, A. Pasqualone, C. Lotti, M.W. Ganal and A. Blanco, 1999. Integration of dinucleotide microsatellites from hexaploid bread wheat into a genetic linkage map of durum wheat. *Theor. Appl. Genet.* 98: 1202-1207.

**Kosambi**, D.D., 1944. The estimation of map distances from recombination values. *Ann. Eugen.* 12: 172-175.

**Kuchel**, H., K.J. Williams, P. Langridge, H.A. Eagles and S.P. Jefferies, 2007. Genetic dissection of grain yield in bread wheat. I. QTL analysis. *Theor. Appl. Genet.* 115(8): 1029-41.

**Kulwal**, P.L., J.K. Roy, H.S. Balyan, and P.K. Gupta, 2003. QTL mapping for growth and leaf characters in bread wheat. *Plant Sci.* 164: 267-277.

**Kumar**, N., P.L. Kulwal, A. Gaur, A.K. Tyagi, J.P. Khurana, P. Khurana, H.S. Balyan and P.K. Gupta, 2006. QTL analysis for grain weight in common wheat. *Euphytica* 151: 135-144.

**Kumar**, N., P.L. Kulwal, H.S. Balyan and P.K. Gupta, 2007. QTL mapping for yield and yield contributing traits in two mapping populations of bread wheat. *Mol. Breeding* 19: 163-177.

**Lander**, E.S., P. Green, J. Abrahamson, A. Barlow, M.J. Daly, S.E. Lincoln and L. Newburg, 1987. MAPMAKER: an interactive computer package for constructing primary linkage maps of experimental and natural populations. *Genomics* 1: 174-181.

**Li**, W.L., J.C. Nelson, C.Y. Chu, L.H. Shi, S.H. Huang, and D.J. Liu, 2002. Chromosomal locations and genetic relationships of tiller and spike characters in wheat. *Euphytica* 125: 357-366.

**Li**, W., P. Zhang, J.P. Fellers, B. Fribe and B.S. Gill, 2004. Sequence composition, Organization and evolution of the core Triticeae genome. *Plant J.* 40: 500-511.

**Li**, S.S., J.Z. Jia, X.Y. Wei, X.C. Zhang, L.Z. Li, H.M. Chen, Y.D. Fan, H.Y. Sun, X.H. Zhao, T.D. Lei, Y.F. Xu, F.S. Jiang, H.G. Wang and L.H. Li, 2007. An intervarietal genetic map and QTL analysis for yield traits in wheat. *Mol. Breeding* 20: 167-178.

**Lincoln**, S., M. Daly and E. Lander, 1993. Constructing genetic linkage maps with Mapmaker/EXP. Version 3.0. Whitehead Institute for Biomedical Research Technica (3).

**Liu**, B., 1998. Statistical Genomics: Linkage, mapping and QTL analysis. CRC Press, BocaRaton.

**Liu**, J.J., Z.H. He, Z.D. Zhao, R.J. Peña and S. Rajaram, 2003. Wheat quality traits and quality parameters of cooked dry white Chinese noodles. *Euphytica* 131: 147-154.

**Lotti**, C., S. Salvi, A. Pasqualone, R. Tuberosa and A. Blanco, 2000. Integration of AFLP markers into an RFLP-based map of durum wheat. *Plant Breed.* 119: 393-401.

**Maccaferri**, M., M.C. Sanguineti, S. Cornetti, J.L. Araus Ortega, M. Ben Salem, J. Bort, E. DeAmbrogio, L.F.G. Del Moral, A. Demontis, A. El-Ahmed, F. Maalouf, H. Machlab, V. Martos, M. Moragues, J. Motawaj, M. Nachit, N. Nserallah, H. Ouabbou, C. Royo, A. Slama and R. Tuberosa, 2008. Quantitative Trait Loci for Grain Yield and Adaptation of Durum Wheat (*Triticum durum* Desf.) Across a Wide Range of Water Availability. *Genetics* 178: 489-511.

**Martinčić**, J., V. Kozumplik, 1997. Oplemenjivanje bilja-Psenica. Zagreb. 1 17-155.

**Maningat**, C.C. and P.A. Seib, 1997. Update on wheat starch and its uses. In: Proceedings of the First International Wheat Quality Conference. J.L. Steele and O.K. Chung (Eds.). Grain Industry Alliance, Kansas, USA. pp. 261–284.

**Manly** K.F., H. Cudmoreronbert, Jr. and J.M. Meer, 2001. MapManager QTX, cross-platform software for genetic mapping. *Mamm. Genome* 12: 930-932.

**Mantovani**, P., M. Maccaferri, M.C. Sanguineti, R. Tuberosa, I. Catizone, P. Wenzl, B. Thomson, J. Carling, E. Huttner, E. DeAmbrogio and A. Kilian, 2008. An integrated DArT-SSR linkage map of durum wheat. *Mol. Breeding* 22: 629-648.

**Maric**, S., S. Bolaric, J. Martincic, I. Pejic and V. Kozumplik, 2004. Genetic diversity of hexaploid wheat cultivars estimated by RAPD markers, morphological traits and coefficients of parentage *Plant Breed.* 123 (4): 366-369.

**Marza**, F., G.H. Bai, B.F. Carver and W.C. Zhou, 2006. Quantitative trait loci for yield and related traits in the wheat population. *Theor. Appl. Genet.* 112: 688-698.

**McCartney**, C.A., D.J. Somers, D.G. Humphreys, O. Lukow, N. Ames, J. Noll, S. Cloutier and B.D. McCallum, 2005. Mapping quantitative trait loci controlling agronomic traits in the spring wheat cross RL4452 × 'AC Domain'. *Genome* 48: 870-883.

**McCouch**, S.R. and R.W. Deorge, 1995. QTL mapping in rice. *Trends genet.* 11: 482-487.

**McKee**, D., 2006. Focus on Thailand. *World Grain* 24(8): 16–20.

**Mergoum**, M., P.K. Singh, J.A. Anderson, R.J. Peña, R.P., Singh, S.S. Xu and J.k. Ransom, 2009. Spring Wheat Breeding. In: M.M.J. Carena (Ed.), Cereals. Springer Science + Business Media. pp.127-156.

**Mohammad**, S., M. Fida and T. Mohammad, 2002. Path coefficient analysis in wheat. *Sarhad J. Agri.* 18(4): 383-388.

**Mohan**, M.S., S. Nair, A. Bhagwat, T.G. Krishna, M. Yano, C.R. Bhatia and T. Sasaki, 1997. Genome mapping, olecular markers and marker -assisted selection in crop plants. *Mol. Breed.* 3: 87-103.

**Mondal**, A.B., D.P. Sadhu and K.K. Sarkar, 1997. Correlation and path analysis in bread wheat. *Environ. Ecol.* 15(3): 537-539.

**Moragues** M, L.G. Del Moral, M. Moralejo and C. Royo. 2006a. Yield formation strategies of durum wheat landraces with distinct pattern of dispersal within the Mediterranean Basin. I. Yield components. *Field Crops Research* 95, 194-205.

- Moragues**, M., J. Zarco-Hernandez, M.A. Moralejo and C. Royo, 2006b. Genetic diversity of glutenin protein subunits composition in durum wheat landraces [*Triticum turgidum* ssp. *turgidum* convar. *durum* (Desf.) MacKey] from the Mediterranean basin. *Genet. Resour. Crop Evol.* 53: 993-1002.
- Motzo** R., S. Fois and F. Giunta, 2004. Relationship between grain yield and quality of durum wheats from different eras of breeding. *Euphytica* 140: 147-154.
- Myburg**, A.A., M. Cawood, B.D. Wingfield and A.M. Botha, 1998. Development of RAPD and SCAR markers linked to the Russian wheat aphid resistance gene Dn2 in wheat. *Theor. Appl. Genet.* 96: 1162-1169.
- Nachit**, M.M., I. Elouafi, M. A. Pagnotta, A. El Saleh, E. Iacono, M. Labhilili, A. Asbati, M. Azrak, H. Hazzam, D. Benschoter, M. Khairallah, J. M. Ribaut, O. A. Tanzarella, E. Porceddu and M. E. Sorrells, 2001. Molecular linkage map for an intraspecific recombinant inbred population of durum wheat (*Triticum turgidum* L. var. *durum*). *Theor. Appl. Genet.* 102: 177-186.
- Narasimhamoorthy**, B., B.S. Gill, A.K. Fritz, J.C. Nelson and G.L. Brown-Guedira, 2006. Advanced backcross QTL analysis of a hard winter wheat x synthetic wheat population. *Theor. Appl. Genet.* 112: 787-796.
- Nelson**, J.C., 1997. QGENE: software for marker based genomic analysis and breeding. *Mol. Breed.* 3: 239-245.
- Paillard**, S., T. Schnurbusch, M. Winzeler, M. Messmer, P. Sourville, O. Abderhalden, B. Keller and G. Schachermayr, 2003. An integrative genetic linkage map of winter wheat (*Triticum aestivum* L.). *Theor. Appl. Genet.* 107: 1235-1242.
- Palazzolo**, G., 2003. Cereal bars: they're not just for breakfast anymore. *Cer. Foods Wor.* 48: 70-72.
- Paterson**, A.H., 1996a. Making gene maps. In: A.H. Paterson (Ed.), *Genome Mapping in plants*. R.G. Landes Company. San Diego, California; Academic Press, Austin, Texas 33: pp.23-39.
- Paterson**, A.H., 1996b. A.H. Paterson (Ed.), *Mapping genes responsible for differences in phenotype*, R.G. Landes Company. San Diego, California; Academic Press, Austin, Texas 33: pp.41-54.
- Peng** J, Korol A.B, Fahima T, Röder M, Ronin Y.I, Li Y.C, Nevo E. 2000. Molecular genetic maps in wild emmer wheat, *Triticum dicoccoides*: genome-wide coverage, massive negative interference, and putative quasi-linkage. *Gen. Res.* 10: 1509-1531.
- Peng**, J., Y. Ronin, T. Fahima, M. S. Röder, Y. Li, E. Nevo and A. Korol, 2003. Domestication quantitative trait loci in *Triticum dicoccoides*, the progenitor of wheat. *PNAS* 100 (5): 2489-2494.
- Perović**, D., 1995. Inheritance of stem height and yield components in wheat hybrids in  $F_4$  and  $F_5$  generations. M. Sci. Thesis. Faculty of Agriculture, Zemun.
- Petrović**, S., 1995. The inheritance of nitrogen harvest index in wheat. M. Sci. Thesis. Faculty of Agriculturc. Novi Sad.

**Pfeiffer**, W.H., K.D. Sayre, and M. Mergoum, 1996. Enhancing genetic grain yield potential in durum wheat and triticale. In: M.P. Reynolds, S. Rajaram and A. McNab (Eds.), Increasing Yield Potential in Wheat: Breaking the Barriers. CIMMYT, Mexico, pp. 90–100.

**Pfeiffer** T.W., 2003. From classical plant breeding to modern crop improvement. In: M.J. Chrispeels and D.E. Sadava (Eds.), Plants, genes, and crop biotechnology. 2nd ed. Boston: Jones and Bartlett Publisher, pp.360-389.

**Picca**, A., P. Roncallo, A. Carrera, G. Cervigni, R. Miranda and V. Echenique, 2008. Saturation of a durum wheat genetic map and detection of QTL associated to lipoxygenase activity. International Journal of Experimental Botany. 77: 175-188.

**Poehlman**, J.M. and D.A. Sleper, 1995. Breeding Field Crops, Fourth Edition, Iowa State University Press /Ames.

**Polci**, P., V. Conti and R. Miranda, 2004. Obtención de plantas doble haploides. In: V. Echenique, C. Rubinstein and Luis Mroginski (Eds.), Biotecnología y Mejoramiento Vegetal. INTA. Parte IV, Capítulo 1.

**Popineau**, Y., B. Huchet, C. Larré and S. Bérot, 2002. Foaming and emulsifying properties of fractions of gluten peptides obtained by limited enzymatic hydrolysis and ultrafiltration. J. Cereal Sci 35: 327-335.

**Prior**, D., 1997. The cradle of civilization: a snapshot of the flour milling industry. Feed Grain: 15-17.

**Quaglia**, G.B., 1988. Other durum wheat products. In Durum Chemistry and Technology, Fabriani, G. and Lintas, C. (Eds). AACC, St. Paul, Minnesota, pp. 263-282.

**Quarrie**, S. A., A. Steed, C. Calestani, A. Semikhodskii, C. Lebreton, C. Chinoy, N. Steele, D. Pljevljakusić, E. Waterman, J. Weyen, J. Schondelmaier, D.Z. Habash, P. Farmer, L. Saker, D. T. Clarkson, A. Abugalieva, M. Yessimbekova, Y. Turuspekov, S. Abugalieva, R. Tuberosa, M-C. Sanguineti, P.A. Hollington, R. Aragués, A. Royo and D. Dodig, 2005. A high-density genetic map of hexaploid wheat (*Triticum aestivum* L.) from the cross Chinese Spring x SQ1 and its use to compare QTLs for grain yield across a range of environments. Theor. Appl. Genet. 110: 865-880.

**Quarrie**, S.A., S.P. Quarrie, R. Radosevic, D. Rancic, A. Kaminska, J.D. Barnes, M. Leverington, C. Ceoloni and D. Dodig, 2006. Dissecting a wheat QTL for yield present in a range of environments: from the QTL to candidate genes. J. Exper. Bot. 57 (11): 2627-2637.

**Rahman**, M. S. and J. H. Wilson, 1977a. Determination of spikelet number in wheat. III. Effect of varying temperature on ear development. Aust. J. Agric. Res., 28: 575-581.

**Rahman**, M.S., J.H. Wilson and V. Aitken, 1977b. Determination of spikelet number in wheat. II. Effect of varying light level on ear development. Austr. J. Agric. Res., 26: 575-581.

**Rassmussen**, D. C. and R.Q. Cannell, 1970. Selection for grain yield and components of yield in barley. Crop Sci. 10: 51-54.

**Rawson**, H.M, 1971. An upper limit for spikelet number per ear in wheat as controlled by photoperiod. Aust. J. Agric. Res. 22: 537-546.

**Richards**, R.A., 1996. Increasing the yield potential of wheat: manipulating sources and sinks. p. 134-149. In Increasing Yield Potential in Wheat: Breaking the Barriers. M.P. Reynolds, S. Rajaram, and A. McNab (Eds). México, D.F.: CIMMYT.

**Rieseberg**, L.H., M.A. Archer and R.K. Wayne, 1999. Transgressive segregation, adaptation, and speciation. Heredity 83, 363-372.

**Rieseberg**, L.H., A. Widmer, A.M. Arntz and J.M. Burke, 2003. The genetic architecture necessary for Transgressive segregation is common in both natural and domesticated populations. Phil. Traizs. R. Soc. Lond. B. 358, 1141-1147.

**Saleem** U., I. Khaliq, T. Mahmood and M. Rafique. 2006. Phenotypic and genotypic correlation coefficients between yield and yield components in wheat. J. Agric. Res., 44(1).

**Salomón**, N. y R. Miranda, 2004. Calidad diferenciada en trigos Argentinos. III Jornadas Interdisciplinarias del Sudoeste Bonaerense. Bahía Blanca, Argentina - 2, 3 Y 4 de Set. 2004.

**Sarquis**, A., 1997. "Perspectivas de trigo candeal". In: Cosecha Fina: Perspectivas. Subsecretaría de Alimentos y Mercados, SAGyP, Buenos aires, julio.

**SAS** System 9.0 For Windows (Sas institute), 2002. SAS Institute, Inc. Cary, NC. USA.

**Schilling**, A.S., A.O. Abaye, C.A. Griffeyea, D.E. Branna, M.M. Alleya and T.H. Pridgena, 2003. Adaptation and Performance of Winter Durum Wheat in Virginia. Agron. J. 95: 642-651.

**Shah**, M.M., K.S. Gill, P.S. Baenziger, Y. Yen, S.M. Kaeppeler and H.M. Ariyathne, 1999a. Molecular Mapping of Loci for Agronomic Traits on Chromosome 3A of Bread Wheat. Crop Sci. 39: 1728-1732.

**Shah**, M.M., P.S. Baenziger, Y. Yen, K.S. Gill, B. Moreno-Sevilla and K. Haliloglu, 1999b. Genetic Analyses of Agronomic Traits Controlled by Wheat Chromosome 3A. Crop Sci. 39: 1016–1021.

**Simane**, B., P.C. Struik, M. Nachit and J.M. Peacock, 1993. Ontogenetic analysis of yield components and yield stability of durum wheat in water-limited environments. Euphytica 71: 211-219.

**Singh**, R.P., and J. Huerta-Espino, 1997. Effect of leaf rust resistance gene *Lr34* on grain yield and agronomic traits of spring wheat. Crop Sci. 37: 390-395.

**Singh**, R.P., Huerta-Espino, J., Rajaram, S., and Crossa, J. 2001. Grain yield and other traits of tall and dwarf isolines of modern bread and durum wheats. Euphytica 119: 241-244.

**Somers**, D.J., P. Isaac and K. Edwards, 2004. A high-density microsatellite consensus map for bread wheat (*Triticum aestivum* L.). Theor. Appl. Genet. 109: 1105-1114.

**Staub**, J.E. and F.C. Serquen, 1996. Genetic marker, map construction, and their application in plant breeding. Hort. Sci. 31: 729-741.

- Sun**, X.Y. , Y. Zhao, F.M. Kong, G.Z. Han, R.J. Li, H.G. Wang and S.S. Li, 2009. QTL analysis of kernel shape and weight using recombinant inbred lines in wheat. *Euphytica* 165: 615-624.
- Tanksley**, S.D., 1993. Mapping polygenes. *Ann. Rev. Genet.* 27: 205-233.
- Tar**, M., L. Purnhauser, L. Csôsz, Á. Mesterházy and G. Gyulai 2002. Identification of molecular markers for an efficient leaf rust resistance gene (*Lr29*) in wheat. *Acta Biologica Szegediensis* 46(3-4): 133-134.
- Tesemma**, T., S. Tsegaye, G. Belay, E. Bechere and D. Mitiku, 1998. Stability of performance of tetraploid wheat landraces in the Ethiopian highland. *Euphytica* 102: 301-308.
- Torada**, A., M. Koike, K. Mochida and Y. Ogihara, 2006. SSR-based linkage map with new markers using an intraspecific population of common wheat. *Theor. Appl. Genet.* 112: 1042-1051.
- Varady**, K.A., Y. Wang, and P.J.H. Jones, 2003. Role of policosanols in the prevention and treatment of cardiovascular disease. *Nutr. Rev.* 61: 376-383.
- Varshney**, R.K., M. Prasad, J.K. Roy, N. Kumar, H. Singh, H.S. Dhaliwal, H.S. Balyan and P.K. Gupta, 2000. Identification of eight chromosomes and a microsatellite marker on 1AS associated with QTL for grain weight in bread wheat. *Theor. Appl. Genet.* 100: 1290-1294.
- Wang**, S., C.J. Basten and Z-B. Zeng, 2004. *Windows QTL Cartographer*, Version 2.0. Department of Statistics, NCSU, Raleigh, NC.
- Weining**, S. and P. Langridge, 1991. Identification and mapping of polymorphism in cereals based on the polymerase chain reaction. *Theor. Appl. Genet.* 82: 209-216.
- Weiss**, L.A., L. Pan, M. Abney and C. Ober, 2006. The sex-specific genetic architecture of quantitative traits in humans. *Nat. Genet.* 38: 218-222.
- Williams**, J.G.K., A.R. Kubelik, K.J. Livak, J.A. Rafalski and S.V. Tingey, 1990. DNA polymorphisms amplified by arbitrary primers are useful as genetic markers. *Nucleic Acids Res.* 18: 6531-6535.
- Wu**, R., M. Chang-Xing and G. Casella. 2007. *Statistical Genetics of Quantitative Traits Linkage, Maps, and QTL*. Springer Science + Business Media, LLC.\*
- Xiaokun**, Y., H.W. Ohm, I. Dweikat and G. Shaner, 1997. RAPD DNA markers linked to a gene in wheat for resistance to septoria tritici blotch. Plant & Animal Genome V Conference, San Diego, CA, January 12-16.
- Yan**, W. and L.A. Hunt, 2002. Biplot analysis of diallel data. *Crop Sci.* 42(1): 21-30.
- Young**, N.D., 1994. Constructing a plant genetic linkage map with DNA markers. In: I.K.V. Ronald and L.Phillips (Eds), *DNA-based markers in plants*. p. 39-57, Kluwer Dordrecht/Boston/London.
- Zahid** Akram, Saif Ullah Ajmal and Muhammad Munir, 2008. Estimation of correlation coefficient among some yield parameters of wheat under rain fed conditions. *Pak. J. Bot.*, 40(4): 1777-1781.

**Zeng**, Z.B., 1993. Theoretical basis of precision mapping of quantitative trait loci. Proc. Natl. Acad.Sci. 90: 10972-10976.

**Zeng**, Z.B., 1994. Precision mapping of quantitative trait loci. Genetics 136: 1457-1468.

**Zhang**, W., S. Chao, F. Manthey, O. Chicaiza, J. C. Brevis, V. Echenique and J. Dubcovsky, 2008. QTL analysis of pasta quality using a composite microsatellite and SNP map of durum wheat. Theor. Appl. Genet. 117 (8): 1361-1377.

**Zobel**, R.W., M.J. Wright and H.G. Gauch, 1988. Statistical analysis of yield trial. Agron. J. 80: 388-393.

**Zohary**, D. and M. Hopf, 2000. Domestication of Plants in the Old World. New York: Oxford University Press, 3<sup>rd</sup> Edition. 67: 657-670.