# REFEREED PUBLICATIONS:

# Books

1. Somers, D., Gustafson, P. and Langridge P. (Eds) (2009) Plant Genomics: Methods and Protocols. Humana Press, pp

# Book Chapters

2. Langridge P. (2014) Agriculture in Australia: growing more than our farming future. In ”Science Matters” Office of the Chief Scientist / The Conversation (Eds) pp 111-117

3. Fleury D, Langridge P (2014) QTL and association mapping for plant abiotic stress tolerance: trait characterisation and introgression for crop improvement. Plant Abiotic Stress 2nd Edition. Eds Matthew A. Jenks and Paul M. Hasegawa. Chapter 13, pp 257-287

4. Langridge, P. (2013) Food for thought. In “The Curious Country: The Role of Science in Australian Society” Ed, L Dayton, Office of the Chief Scientist, ANU Press, pp 62-66

5. Li M, Lopato S, Kovalchuk N, Langridge P (2012) Functional Genomics of Seed Development in Cereals. In “Cereal genomics”, Eds Gupta P and Varshney R. pp 215-245

6. Fleury D, Delannay X, Langridge P (2012) Quantitative Trait Loci and Breeding. In: eLS. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0023712

7. Fleury D, Baumann U, Langridge P. (2011) “Plant genome sequencing, models for developing synteny maps and association mapping”. In “Plant Biotechnology and Agriculture: Prospects for the 21st Century”. A Altman and PM Hasegawa (Eds), Elsevier, Chapter 6; pp 83-97

8. Whitford R, Gilbert M, Langridge P. (2010) Biotechnology in Agriculture. In “Climate Change and Crop Production”. Ed Matthew Reynolds, CABI, UK, pp 219-244

9. Lehmensiek A, Bovill W, Wenzl P, Langridge P, Appels R (2009) Genetic mapping in the Triticeae. In ‘Genetics and Genomics of the Triticeae’, C. Feuillet and G. Muelbauer Ed. pp 201-235

10. Ma W, Anderson O, Kuchel H, Bonnardeaux Y, Collins H, Morell MK, Langridge P, Appels R (2009) Genomics of Quality Traits. In ‘Genetics and Genomics of the Triticeae’, C. Feuillet and G. Muelbauer Ed. pp 611-652

11. Langridge, P. and Baumann, U. (2008) Self-incompatibility in the grasses. In “Self-incompatibility in plants”. V.E. Franklin-Tong (Ed.), Springer pp 275-287

12. William, M., Trethowan, R., and Langridge, P. (2008) Genomics of wheat: The basis of our daily bread. In “Genomics of Tropical Crop Plants”, Moore, Paul H.; Ming, Ray (Eds.) Springer, Chapter 22,

13. Langridge, P., Chalmers, K. (2005) The principle: Identification and application of molecular markers. In “Molecular marker systems in plant breeding and crop improvement: Biotechnology in Agriculture and Forestry” 55; pp 3-22

14. Varshney, R.K., Balyan, H.S., Langridge, P. (2006) Wheat. In "The Genomes; A series on Gene Mapping, Molecular Breeding and Genomics of Economic Species", Vol 1, Cereals and Millets, Ed C. Kole, Science Publishers, pp 79-134.

15. Fincher GB, Langridge P (2004) Genomics. In “Encyclopaedia of Grain Science” Ed. C. Wrigley Vol 2, pp16-24

16. Milligan AS, Lopato S, Langridge P. (2004) Functional genomics studies for seed development in cereals. In “Cereal genomics” Eds. PK Gupta & RA Varshney. Kluwer Acad., pp447-481

17. Chalmers, K.J., Jefferies, P.S. Langridge, P. (2001) Comparison of RFLP and AFLP marker systems for assessing genetic diversity in Australian barley varieties and breeding. In “Plant Genotyping: the DNA Fingerprinting of Plants”, Ed R.J. Henry, pp 161-178

18. Langridge, P., Yang, Q., Dong, C., Chalmers, K. (2000) From genome structure to pragmatic breeding of wheat and barley. In “Genomes” Ed. J. Perry Gustafson, Kluwer Academic, pp197-209

19. Langridge, P.; Zakri, A. H.; Normah, M. N.; et al. (1991) Molecular biology and construction of gene libraries for germplasm conservation. Conservation of plant genetic resources through in vitro methods. Proceedings of the MNCPGR/CSC international workshop on tissue culture for the conservation of biodiversity and plant genetic resources held in Kuala Lumpur, Malaysia, 28-31 May 1990. : 85-94

20. Guidet, F.L.Y. Langridge, P. (1992) Megabase DNA preparation from plant tissue. In "Methods in Enzymology" Vol 216 Recombinant DNA, Part G (R. Wu, ed) pp 3-12.

21. Murphy, P.J. Karakousis, A., Smith, S.E. Langridge, P. (1995) Cloning functional endomycorrhizal genes: potential uses in plant breeding. In: Biotechnology of ectomycorrhizas. (Stocchi, V. Ed), Plenum Press, pp 77-83.

22. Lörz, H., Brettschneider, R., Hartke, S., Gill, R., Kranz, E., Langridge, P., Stolarz, A. Lazzeri, P. (1990) In vitro manipulation of barley and other cereals. In "Gene Manipulation in Plant Improvement II" (J.P. Gustafson, ed.) Plenum Press, New York.

23. Brooker JD, Lockington RA, Attwood GT, Langridge p. (1989) Engineering ruminal microflora for improved protein quality. In: Rogers, G. E., Et Al. (Ed.). the Biology of Wool and Hair; Symposium, Adelaide, South Australia, Australia, December 6-10, 1987. Xi+506p. Routledge, Chapman and Hall: New York, New York, USA; London, England, UK. Illus : 425-440

24. Brooker, J.D., Lockington, R.A., Attwood, G.T., Langridge, U. Langridge, P. (1987) Gene manipulation in the rumen anaerobes. In "Biology of Wool and Hair", (Rogers and Ward, eds.) Croom Helm, U.K.

25. Feix G, Brown JWS, Langridge P (1985) Expression of zein genes. Van Vloten-Doting, L., G. S. P. Groot and T. C. Hall (Ed.). NATO ASI Series A Life Sciences, Vol. 83. Molecular Form and Function of the Plant Genome; NATO Advanced Study Institute-FEBS: 567-578

26. Zenke G, Edwards K, Langridge P, Koessel G (1982) The ribosomal RNA operon from maize Zea mays chloroplasts, analysis of in vivo transcription products in relation to its structure. Akoyunoglou, G. Et Al (Ed.). Progress in Clinical and Biological Research, Vol. 102b. FEBS, Vol. 65. Cell Function and Differentiation, Part B P309-

27. Langridge, P., Pintor-Toro, J.A. Feix, G. (1982) Repeated excision and analysis of developing kernels from a single growing maize ear. In: Maize for Biological Research (W.F. Sheridan, ed.) University Press, University of North Dakota (Grand Forks) pp. 311-312.

28. Langridge, P., Pintor-Toro, J.A. Feix, G. (1982) Zein genomic clones of maize. In: Maize for Biological Research (W.F. Sheridan, ed.) University Press, University of North Dakota (Grand Forks) pp. 183-187.

29. Feix, G., Langridge, P. Wienand, U. (1981) Cloning of DNA sequences coding for zein proteins of maize. In: Genetic Engineering in the Plant Sciences (N.J. Panopolous, ed.). Praeger Publish., New York, pp. 73-84.

# Research Papers

30. Hackenberg M, Rueda A, Gustafson P, Langridge P, Shi B. (2016) Generation of different sizes and classes of small RNAs in barley is locus, chromosome and/or cultivar-dependent. BMC Genomics (accepted 25/07/2016)

31. Mahjourimajd S, Taylor J, Sznajder B, Timmins A, Shahinnia F, Rengel Z, Khabaz-Saberi H, Kuchel H, Okamoto M, Langridge P (2016) Genetic Basis for Variation in Wheat Grain Yield in Response to Varying Nitrogen Application. PLOS ONE (accepted 14/7/2016)

32. Mahjourimajd S, Taylor J, Rengel Z, Khabaz-Saberi H, Kuchel H, Okamoto M, Langridge P (2016) The Genetic Control of Grain Protein Content under Variable Nitrogen Supply in an Australian Wheat Mapping Population. PLOS ONE (accepted 9/7/2016)

33. Reynolds M and Langridge P (2016) Physiological breeding. Current Opinion Plant Sci. 31: 162-171

34. Obsa BT, Eglinton J, Coventry S, March T, Langridge P, Fleury D (2016) Genetic analysis of developmental and adaptive traits in three doubled haploid populations of barley (Hordeum vulgare L.)". Theor Appl Genet 129: 1139-1151

35. Ferdous J, Sanchez‐Ferrero JC, Langridge P, Milne L, Chowdhury J, Brien C, Tricker PJ (2016) Differential expression of microRNAs and potential targets under drought stress in barley. Plant Cell Environ.

36. Kovalchuk N, Chew W, Sornaraj P, Borisjuk N, Yang N, Singh R; Bazanova N, Shavrukov Y, Guendel A, Munz E, Borisjuk L, Langridge P, Hrmova M, Lopato S, (2016) The homeodomain transcription factor TaHDZipI-2 from wheat regulates frost tolerance, flowering time and spike development in transgenic barley. New Phytol. doi: 10.1111/nph.13919

37. Shavrukov Y, Baho M, Lopato S, Langridge P (2016) The TaDREB3 transgene transferred by conventional crossings to different genetic backgrounds of bread wheat improves drought tolerance. Plant Biotech J 14: 313-322

38. Harris JC, Sornaraj P, Taylor M, Bazanova N, Baumann U, Lovell B, Langridge P, Lopato S, and Hrmova M (2016) Molecular interaction of the γ-Clade Homeodomain-Leucine Zipper Class I transcription factors during the wheat response to water deficit. Plant Mol Biol. 90: 435-452

39. Mahjourimajd S, Kuchel H, Langridge P, Okamoto M (2016) Evaluation of Australian wheat genotypes for response to variable nitrogen application. Plant Soil 399: 247-255

40. Amalraj A, Luang S, Manoj Kumar Y, Sornaraj P, Eini O, Kovalchuk N, Bazanova N, Li Y, Yang N, Eliby S, Langridge P, Hrmova M, Lopato S (2016) Change of function of the wheat stress-responsive transcriptional repressor TaRAP2. Plant Biotech J. 14: 820-832

41. Yadav D, Shavrukov Y, Bazanova N, Chirkova L, Borisjuk N, Kovalchuk N, Ismagul A, Parent B, Langridge P, Hrmova M, Lopato S (2015) Constitutive overexpression of the TaNF-YB4 gene in transgenic wheat significantly improves grain yield. J Exp. Bot. 66: 6635-6650

42. Parent B, Shahinnia F, Maphosa L, Berger B, Rabie H, Chalmers K, Kovalchuk A, Langridge P, Fleury D (2015) Combining field performance with controlled environment plant imaging to identify the genetic control of growth and transpiration underlying yield response to water-deficit stress in wheat. J Exp Bot, 66: 5481-5492

43. Maphosa L, Langridge P, Taylor H, Emebiri LC, Mather DE (2015) Genetic control of grain protein, dough rheology traits and loaf traits in a bread wheat population grown in three environments. J Cereal Chem. 64: 147-152

44. Tiong J, McDonald G, Genc Y, Shirley N, Langridge P, Huang CY (2015) Increased expression of six ZIP family genes by zinc (Zn) deficiency is associated with enhanced uptake and root-to-shoot translocation of Zn in barley (Hordeum vulgare). New Phytol. 207: 1097-1109

45. Steinemann S, Zeng Z, McKay A, Langridge P, Huang CY (2015) Dynamic root responses to drought and rewatering in two wheat (Triticum aestivum) genotypes. Plant Soil 391: 139-152

46. Ferdous J, Li Y, Reid N, Langridge P, Shi B-J, Tricker P (2015) Identification of reference genes for quantitative expression analysis of microRNAs and mRNAs in barley under various stress conditions. PLOS ONE 10: Art e0126167 Erratum in: PLoS One. 2015;10(5):e0126167

47. Bi H, Kovalchuk NV, Dias D, Roessner U, Langridge P, Lopato S, Borisjuk NV (2015) Natural variation of wheat cuticular waxes in relation to drought tolerance. Exp Evol Organisms 16: 174-178

48. Nagahatenna D, Langridge P, Whitford R (2015) Tetrapyrrole-based drought stress signalling. Plant Biotech J. 13: 447-459

49. Hill CB, Taylor JD, Edwards J, Mather D, Langridge P, Bacic A, Roessner U (2015) Detection of QTL for metabolic and agronomic traits in wheat with adjustments for variation at genetic loci that affect plant phenology. Plant Science, 233: 143-154

50. Langridge P, Reynolds M (2015) Genomic tools to assist breeding for drought tolerance. Current Opinion Biotech 32: 130-135

51. Hackenberg M, Shi BJ, Gustafson P, Langridge P (2015) Differential expression of microRNAs and other small RNAs in barley between water and drought conditions. Plant Biotech J. 13: 2-13

52. Langridge P (2014) Reinventing the green revolution by harnessing crop mutant resources. Plant Physiol. 166; 1682-1683

53. Shavrukov Y, Suchecki R, Eliby S, Abugalieva A, Kenebayev S, Langridge P, (2014) Application of next-generation sequencing technology to study genetic diversity and identify unique SNP markers in bread wheat from Kazakhstan. BMC Plant Biology 14, 258

54. Li M, Hrmova M, Koltunow A, Langridge P, Lopato S (2014) Expression patterns and protein structure of a lipid transfer protein END1 from Arabidopsis. Planta, 240: 1319-1334

55. Pallotta M, Schnurbusch T, Hayes J, Hay A, Baumann U, Paull J, Langridge P, Sutton T (2014) Molecular basis of adaptation to high soil boron in wheat landraces and elite cultivars. Nature doi:10.1038/nature13538

56. Maphosa L, Langridge P, Taylor H, Parent B, Emebiri LC, Kuchel H, Reynolds MP, Chalmers KJ, Okada A, Edwards J, Mather DE (2014) Genetic control of grain yield and grain physical characteristics in a bread wheat population grown under a range of environmental conditions. Theor Appl Genet. doi:10.1007/s00122-014-2322-y

57. Lopato S, Borisjuk N, Langridge P, Hrmova M (2014) Endosperm transfer cell-specific genes and proteins: structure, function and applications in biotechnology. Frontiers Plant Sci. 5.

58. Ariyadasa R, Mascher M, Nussbaumer T, Schulte D, Frenkel Z, Poursarebani N, Zhou R, Steuernagel B, Gundlach H, Taudien S, Felder M, Platzer M, Himmelbach A, Schmutzer T, Hedley PE, Scholz U, Korol A, Mayer KFX, Waugh R, Langridge P, Graner A, Stein N (2014) A sequence-ready physical map of barley anchored genetically by two million SNPs. Plant Physiol. 164: 412-423

59. Tiong J, McDonald G, Genc Y, Pedas G, Hayes J, Toubia J, Langridge P, Huang C (2014) HvZIP7 mediates Zn accumulation in barley (Hordeum vulgare) at moderately high Zn supply. New Phytol. 201: 131-143

60. Huang CY, Kuchel H, Edwards J, Hall S, Parent B, Eckermann P, Herdina, Hartley DM, Langridge P, McKay AC (2013) A DNA-based method for studying root responses to drought in field-grown wheat genotypes. Nature Scientific Reports, 3: Art No: 3194

61. Hackenberg M, Shi BJ, Gustafson JP, Langridge P (2013) Characterisation of phosphorus-regulated miR399 and miR827 and their isomirs in barley under phosphorus-sufficient and phosphorus-deficient conditions. BMC Plant Biol. 13:214. doi: 10.1186/1471-2229-13-214

62. Ryan Whitford R, Fleury D, Reif JC, Garcia M, Okada T, Korzun V, Langridge P. (2013) Hybrid Breeding in Wheat: Technologies to improve hybrid wheat seed production. J Exp Bot (Darwin review) 64: 5411-5428

63. Langridge, P (2013) Wheat genomics and the ambitious targets for future wheat production. Genome, 56: 545-547

64. McCouch S, Baute GP, Bradeen J, Bramel P, Bretting PK, Buckler E, Burke JM, Charest D, Cloutier S, Cole G, Dempewolf H, Dingkuhn M, Feuillet C, Gepts P, Grattapaglia D, Guarino L, Jackson S, Knapp S, Langridge P, Lawton-Rauh A, Lijua Q, Lusty C, Michael T, Myles S, Naito K, Nelson RL, Pontarollo R, Richards CM, Rieseberg L, Ross-Ibarra J, Rounsley S, Sackville Hamilton R, Schurr U, Stein N, Tomooka N, van der Knaap E, van Tassel D, Toll J, Valls J, Varshney RK, Ward J, Waugh R, Wenzl P, Zamir D (2013) Agriculture: Feeding the future. Nature, 499: 23–24

65. Hill CB, Taylor JD, Edwards J, Mather D, Bacic A, Langridge P, Roessner U (2013) Whole genome mapping of agronomic and metabolic traits to identify novel quantitative trait loci in bread wheat grown in a water-limited environment. Plant Physiol. 162: 1266-1281

66. Hayes J, Pallotta M, Baumann U, Berger B, Langridge P and Sutton T. (2013) Germanium as a tool to dissect boron toxicity effects in barley and wheat. Functional Plant Biology, 40: 618-627

67. Eini O, Yang N, Pyvovarenko T, Pillman K, Bazanova N, Tikhomirov N, Eliby S, Shirley N, Sivasankar S, Tingey S, Langridge P, Hrmova M, Lopato S. (2013) Complex regulation by Apetala2 domain-containing transcription factors revealed through analysis of the stress-responsive TdCor410b promoter from durum wheat. PLOS One 8, e58713

68. Kovalchuk N, Jia W, Eini O, Morran S, Pyvovarenko T, Fletcher S, Bazanova N, Harris J, Beck-Oldach K, Shavrukov Y, Langridge P, Lopato S (2013) Optimisation of TaDREB3 gene expression in transgenic barley using cold-inducible promoters. Plant Biotech J. 11: 659-670

69. Maphosa L, Langridge P, Taylor H, Chalmers KJ, Bennett D, Kuchel H, Mather DE (2013) Genetic control of processing quality in a bread wheat mapping population grown in water-limited environments’, J. Cereal Sci. 57: 304-311

70. Bonneau J, Taylor J, Parent B, Bennett D, Reynolds M, Feuillet C, Langridge P, Mather DE (2013) Multi-environment analysis and improved mapping of a yield-related QTL on chromosome 3B of wheat. Theor. Appl. Genet. 126: 747-761

71. Hackenberg M, Shi BJ, Gustafson JP, Huang CY, Langridge P (2013) A Comprehensive Expression Profile of MicroRNAs and Other Classes of Non-Coding Small RNAs in Barley under Phosphorous Deficient and Sufficient Conditions. DNA Res. 20: 109-125

72. Langridge P. (2012) Decoding our daily bread. Nature 491: 678-680

73. Varshney RK, Ribaut J-M, Buckler ES, Tuberosa R, Rafalski JA, Langridge P (2012) Can genomics boost productivity of orphan crops? Nature Biotech 30: 1172-1176

74. Stein N, Graner A, Himmelbach A, Steuernagel B, Schulte D, Mascher M, Poursarebani N, Zhou R, Ariyadasa R, Schmutzer T, Scholz U, Gundlach H, Mayer K, Spannagl M, Pfeifer M, Martis M, Nussbaumer T, Druka A, Marshall D, Liu H, Morris J, Russell J, Bayer M, Brown J, Hedley P, Waugh R, Shi B, Langridge P, Svensson J, Resnik J, Madishetty K, Moscou M, Bhat P, Wanamaker S, Close T, Ma Y, Duma D, Cordero F, Ciardo G, Beccuti M, Alpert M, Lonardi S, Bergès H, Korol A, Frenkel Z, Groth M, Felder M, Platzer M, Taudien S, Schulman A, Moisy C, Tanskanen J, Matsumoto T, Tanaka T, Sato K, Fincher G, Swarbreck D, Sampath D, Caccamo M, Febrer M, Ayling S, Wing R, Muehlbauer G, Zuccolo A, Cattonaro F, Morgante M, Scalabrin S, Radovic S, Vendramin V, Poland J, Wise R. (2012) A physical, genetic and functional sequence assembly of the barley genome. Nature 491: 4711-4716

75. Schreiber AW, Hayden MJ, Forrest KL, Kong SL, Langridge P, Baumann U (2012 Transcriptome-scale homoeolog-specific transcript assemblies of bread wheat. BMC Genomics 13: 492

76. Oz MT, Kayihan C, Gumusel D, Karagedikli G, Pallotta M, Sutton T, Langridge P, Eyidogan F, Yucel M, Oktem HA. (2012) Boron toxicity and deficiency in Triticeae: Update on tolerance mechanisms and transporters. New Biotech. 29: S137.

77. Hackenberg M, Shi BJ, Gustafson JP, Langridge P (2012) A transgenic transcription factor (TaDREB3) in barley affects the expression of microRNAs and other small non-coding RNAs. PlosOne, 7: e42030

78. Huynh BL, Mather DE, Schreiber AW, Toubia J, Baumann U, Shoaei Z, Stein N, Ariyadasa R, Stangoulis J, Edwards J, Shirley N, Langridge P, Fleury D. (2012) Clusters of genes encoding fructan biosynthesizing enzymes in wheat and barley. Plant Molecular Biology, 80: 299-314

79. Bennett D, Reynolds M, Mullan D, Izanloo A, Kuchel H, Langridge P, Schnurbusch T. (2012) Detection of two major grain yield QTL in bread wheat (Triticum aestivum L.) under heat, drought and high yield potential environments. Theor. Appl. Genet. 125: 1473-1485

80. Lacroix C, Langridge P, Tuberosa R (2012) Biotechnology for enhancing plant production and food quality: IBS 2010 part III, J Biotech. 159:249-250

81. Edwards D, Wilcox S, Barrero RA, Fleury D, Cavanagh CR, Forrest7 KL, Hayden MJ, Moolhuijzen P, Keeble-Gagne G, Bellgard MI, Lorenc MT, Shang CA, Baumann U, Taylor JM, Morell MK, Langridge P, Appels R, Fitzgerald A (2012) Bread matters: a national initiative to profile the genetic diversity of Australian wheat. Plant Biotech. J. 10: 703-708

82. Bennett D, Izanloo A, Reynolds M, Kuchel H, Langridge P, Schnurbusch T (2012) Genetic dissection of grain yield and physical grain quality in bread wheat (Triticum aestivum L.) under water-limited environments. Theor. Appl. Genet. 125: 255-271

83. Kovalchuk N, Wu W, Eini O, Bazanova N, Pallotta M, Shirley N, Singh R, Ismagul A, Eliby S, Johnson A, Langridge P, Lopato S (2012) The scutellar vascular bundle specific promoter of the wheat HD-Zip IV transcription factor shows similar spatial and temporal activity in transgenic wheat, barley and rice. Plant Biotech J. 10: 43-53

84. Kovalchuk N, Smith J, Bazanova N, Pyvovarenko T, Singh R, Shirley N, Ismagul A, Johnson A, Milligan AS, Hrmova M, Langridge P, Lopato S (2012) Characterisation of the wheat gene encoding a grain-specific lipid transfer protein TdPR61 and promoter activity in wheat, barley and rice. J Exp. Bot. 63: 2025-2040

85. Bennett D, Izanloo A, Edwards J, Kuchel H, Chalmers K, Tester M, Reynolds M, Schnurbusch T, Langridge P (2012) Identification of novel quantitative trait loci for days to ear emergence and flag leaf glaucousness in a bread wheat (Triticum aestivum L.) population adapted to southern Australian conditions. Theor. Appl. Genet. 124: 697-711

86. Bowne JB, Erwin TA, Juttner J, Schnurbusch T, Langridge P, Bacic A, Roessner U. (2012) Drought responses of leaf tissues from wheat cultivars of differing drought tolerance at the metabolite level. Mol. Plant 5: 418-429

87. Shavrukov Y, Shamaya N, Baho M, Edwards J, Ramsey C, Nevo E, Langridge P, Tester M (2011) Salinity tolerance and Na+ exclusion in wheat: Variability, genetics, mapping populations and QTL analysis. Czech J. Genet. Plant Breeding 47: S85-S93

88. Schulte D, Ariyadasa R, Shi B, Fleury D, Saski C, Atkins M, deJong P, Wu C-C, Graner A, Langridge P and Stein N (2011) BAC library resources for map-based cloning and physical map construction in barley (Hordeum vulgare L.). BMC Genomics. 12:247.

89. Huang C, Shirley N, Genc Y, Shi B-J, Langridge P (2011) Phosphate utilization efficiency correlates with expression of low- affinity phosphate transporters and non-coding RNA, IPS1 in barley. Plant Physiol. 156: 1217-1229

90. Harris JC, Hrmova M, Lopato S, Langridge P (2011) Modulation of plant growth by HD-Zip class I and II transcription factors in response to environmental stimuli. New Phytol. 190:823-837. Tansley review

91. Schreiber AW, Shi B-J, Huang C-Y, Langridge P and Baumann U (2011) Discovery of Barley miRNAs through deep sequencing of short reads. BMC Genomics, 12:129

92. Langridge P, Fleury D (2011) Making the most of 'omics' for crop breeding. Trends Biotech; 29:33-40

93. Morran S, Eini O, Pyvovarenko T, Parent B, Singh R, Ismagul A, Eliby S, Shirley N, Langridge P, Lopato S. (2011) Improvement of stress tolerance of wheat and barley by modulation of expression of DREB/CBF factors. Plant Biotech. J. 9:230-249

94. Shavrukov, Y., Langridge, P., Tester, M. & Nevo, E. (2010) Wide genetic diversity of salinity tolerance, sodium exclusion and growth in wild emmer wheat, Triticum dicoccoides. Breeding Science, 60: 426–435

95. Schnurbusch T, Hayes J, Hrmova M, Ramesh S, Tyerman S, Baumann U, Langridge P, Sutton T. (2010) Boron toxicity tolerance in barley through reduced expression of the multifunctional aquaporin HvNIP2;1. Plant Physiol. 153:1706-1715

96. Fleury D, Luo MC, Dvorak J, Ramsay L, Gill BS, Anderson OD, You FM, Schoaei Z, Deal KR, Langridge P (2010) Physical mapping of a large plant genome using global high-information-content-fingerprinting: the distal region of the wheat ancestor Aegilops tauschii chromosome 3DS. BMC Genomics, 11:382

97. Fleury D, Jefferies S, Kuchel H, Langridge P (2010) Genetic and genomic tools to improve drought tolerance in wheat. J Exp. Bot. 61:3211-3222

98. Tester M, Langridge P (2010) Breeding technologies to increase crop production in a changing world. Science, 327:818-822

99. Shi BJ, Sutton T, Collins N, Langridge P. (2010) Construction of a barley bacterial artificial chromosome (BAC) library suitable for cloning genes for boron tolerance, sodium exclusion and high grain zinc content. Plant Breeding, 129:291-296

100. Shavrukov Y, Langridge P, Mark Tester M; Baho M, Miyazaki J, Gupta NK, Chalmers K, Collins N. (2010) HvNax3– a locus controlling shoot sodium exclusion derived from wild barley Hordeum vulgare ssp. Spontaneum). Integr. Functional Genomics, 19:277-291

101. Hassan, M, Oldach, K, Bauman, U, Langridge, P, Sutton, T. (2010) Genes mapping to boron tolerance QTL in barley identified by suppressive subtractive hybridization. Plant Cell Environ. 33:188-198

102. Kovalchuk N, Li M, Wittek F, Reid N, Singh R, Shirley N, Ismagul A, Eliby S, Johnson A, Milligan AS, Hrmova M, Langridge P, Lopato S. (2010) Defensin promoters as potential tools for engineering disease resistance in cereal grains. Plant Biotech J. 8:47-64

103. Gupta, PK, Langridge P, Mir RR (2010) Marker-Assisted Wheat Breeding: Present Status and Future Possibilities. Molecular Breeding, 26:145-161

104. Shavrukov Y, Langridge P, Tester M. (2009) Salinity tolerance and sodium exclusion in genus Triticum. Breeding Science 59: 671–678.

105. Andreas W Schreiber, Tim Sutton, Rico A Caldo, Elena Kalashyan, Ben Lovell, Gwenda Mayo, Gary J Muehlbauer, Arnis Druka, Robbie Waugh, Roger P Wise, Peter Langridge and Ute Baumann (2009) Comparative transcriptomics in the Triticeae. BMC Genomics 10:285

106. Reynolds M, Manes Y, Izanloo A, Langridge P (2009) Phenotyping approaches for physiological breeding and gene discovery in wheat. Annals Appl Biol. 155: 309-320

107. Shi B-J, Gustafson P, Button J, Junji M, Pallotta M, Gustafson N, Zhou H, Langridge P, Collins N (2009) Physical analysis of the complex rye (Secale cereale L.) Alt4 aluminium (aluminum) tolerance locus using a whole-genome BAC library of rye cv. Blanco. Theor Appl Genet. 119: 695-704

108. Shi BJ, Gustafson JP, Langridge P. (2009) A simple TAE-based method to generate large insert BAC libraries from plant species Methods Mol Biol. 2009;513:57-80

109. Kovalchuk, N, Smith, J, Pallotta, M, Singh, R, Ismagul, A, Eliby, S, Bazanova, N, Milligan, AS, Hrmova, M, Langridge, P & Lopato, S (2009) Characterization of the wheat endosperm transfer cell-specific protein TaPR60. Plant Mol Biol, 71: 81-98

110. Schulte D, Close TJ, Graner A, Langridge P, Matsumoto T, Muehlbauer G, Sato K, Schulman AH, Waugh R, Wise RP, Stein N (2009) The International Barley Sequencing Consortium (IBSC) – at the threshold of efficient access to the barley genome. Plant Physiol. 149:142-147

111. Boden SA, Langridge P, Spangenberg G, Able JA (2009) TaASY1 promotes homologous chromosome interactions and is affected by deletion of Ph1. Plant J. 57:487-497

112. Izanloo A, Condon AG, Langridge P, Tester M, Schnurbusch T. (2008) Different mechanisms of adaptation to cyclic water stress in two South Australian bread wheat cultivars. J. Exp. Bot. 59:3327-3346

113. Schnurbusch T, Langridge P, Sutton T (2008) The Bo1-specific PCR marker AWW5L7 is predictive of boron tolerance status in a range of exotic durum and bread wheats. Genome, 51: 963-971

114. Huang CY, Roessner U, Eickmeier I, Genc Y, Callahan DL, Shirley N, Langridge P, Bacic A (2008) Metabolite profiling reveals distinct changes in carbon and nitrogen metabolism in phosphate deficient barley plants (Hordeum vulgare L.) Plant Cell Physiol. 49: 691-703

115. Li M, Singh R, Bazanova N, Milligan AS, Shirley N, Langridge P, Lopato S (2008) Spatial and temporal expression of endosperm transfer cell-specific promoters in transgenic rice and barley. Plant Biotech. J. 6:465-476

116. Feuillet C, Langridge P, Waugh R. (2008) Cereal breeding takes a walk on the wild side. Trends Genet. 24:24-32

117. Lloyd AH, Milligan AS, Langridge P, Able JA (2007) TaMSH7: A cereal mismatch repair gene that affects fertility in transgenic barley (Hordeum vulgare L.) BMC Plant Biol. 7:67

118. Sutton T, Baumann U, Hayes J, Collins NC, Shi B-J, Schnurbusch T, Hay A, Mayo G, Pallotta M, Tester M, Langridge P. (2007) Boron toxicity tolerance in barley arising from efflux transporter amplification, Science 318: 1446-9

119. Lopato S, Borisjuk L, Milligan AS, Shirley N, Bazanova N, Langridge P. (2007) Systematic identification of factors involved in post-transcriptional processes in wheat grain.

Plant Mol Biol. 62; 637-653

120. Able JA, Langridge P, Milligan AS (2007) Capturing diversity in the cereals: many options but so little promiscuity. Trends Plant Sci.;12:71-9

121. Varshney R, Marcel, T, Ramsay L, Russell J, Roeder M, Stein N, Waugh R, Langridge P, Niks R, Graner A (2007) A high density barley microsatellite consensus map with 775 SSR loci. Theor. Appl. Genet. 114:1091-103

122. Ayliffe MA, Pallotta M, Langridge P, Pryor AJ (2007) A Barley Activation Tagging System. Plant Mol. Biol. 64:329-47

123. Schnurbusch, T, Collins N, Eastwood R, Sutton T, Jefferies S, Langridge P (2007) Fine mapping and targeted SNP survey using rice-wheat gene colinearity in the region of the Bo1 boron toxicity tolerance locus of bread wheat. Theor. Appl. Genet. 115:451-61

124. Genc Y, Huang C-Y, Langridge P. (2007) A study of the role of root morphological traits on growth of barley in zinc-deficient soil. J Exp Bot. 58: 2775-2784

125. Shavrukov Y, Bowne JB, Langridge P. Tester M. (2007) Screening for sodium exclusion in parental species of synthetic wheat, Triticum durum and Aegilops tauschii. Aust J. Agric. Res. 51: 69-74

126. Boden SA, Shadiac N, Tucker EJ, Sutton T, Langridge P, Able JA. (2007) Expression and functional analysis of an asynapsis gene, TaASY1, during meiosis of bread wheat (Triticum aestivum). BMC Mol. Biol. 8, 65

127. Kuchel H, Williams KJ, Langridge P, Eagles HA, Jefferies SP (2007) Genetic dissection of grain yield in bread wheat. I. QTL analysis. Theor Appl Genet. 115:1029-41

128. Kuchel H, Williams KJ, Langridge P, Eagles HA, Jefferies SP (2007) Genetic dissection of grain yield in bread wheat. II. QTL-by-environment interaction Theor Appl Genet. 115:1015-27

129. Varshney, RK, Graner, A. Langridge P. (2007) Application of genomics to molecular breeding of wheat and barley. Advances in Genetics, 58: 121-155

130. Langridge P, Paltridge N, Fincher GB (2006) Functional Genomics of Abiotic Stress Tolerance; Briefings in Functional Genomics and Proteomics, V. 4 Issue 4, 343-354

131. Able JA, Langridge P. (2006) Wild sex in the grasses. Trends Plant Sc. 11, 261-163

132. Varshney RK, Grosse I, Haehnel U, Siefken R, Prasad M, Stein N, Langridge P, Altschmied L, Graner A. (2006) Genetic mapping and BAC assignment of EST-derived SSR markers shows non-uniform distribution of genes in the barley genome. Theor Appl Genet. 113, 239-250

133. Lopato S, Bazanova N, Morran S, Milligan AS, Shirley S, Langridge P (2006) Isolation of plant transcription factors using a modified yeast one-hybrid system; Plant Methods 2:3

134. Druka A, Muehlbauer V, Druka I, Caldo R, Baumann U, Rostoks N, Schreiber A, Wise R, Close T, Kleinhofs A, Graner A, Schulman A, Langridge P, Sato K, Hayes P, McNicol J, Marshall D, Waugh R (2006) An atlas of gene expression from seed to seed through barley development; Funct. Int. Genom., 6:202-211

135. Kuchel H, Mosionek L, Langridge P, Williams K, Jefferies SP (2006) Mapping the genetic basis of milling, dough rheology and baking quality of wheat; Theor. Appl. Genet. 112, 1487-1495

136. Caldwell KS, Langridge P, Powell W (2006) Extreme population dependent linkage disequilibrium detected in an inbreeding plant species, Hordeum vulgare.; Genetics, 172, 557-567

137. Whitford R, Baumann U, Sutton T, Gumaelius L, Wolters P, Tingey S, Able JA, Langridge P. (2007) Identification of transposons, retrotransposons and a gene family predominantly expressed in floral tissues in chromosome 3DS of the hexaploid wheat progenitor Aegilops tauschii. Functl. Integr. Genomics; 7; 37-52

138. Kuchel H, Hollamby G, Langridge P, Williams K, Jefferies SP (2006) Identification of genetic loci associated with ear emergence in bread wheat. Theor. Appl. Genet. 113; 1103-1112

139. Zhao T, Palotta M, Langridge P, Prasad M, Graner A, Schulze-Lefert P, Koprek T. (2006) Mapped Ds/T-DNA launch pads for functional genomics in barley. Plant J. 47: 811-826

140. Roessner U, Patterson JH, Forbes MG, Fincher GB, Langridge P, Bacic A. (2006) An Investigation of Boron Toxicity in Barley using Metabolomics. Plant Physiol. 142; 1087-1101

141. Willsmore KL, Eckermann P, Varshney RK, Graner A, Langridge P, Pallotta M, Cheong J, Williams KJ (2006) New eSSR and gSSR markers added to Australian barley maps. Aust. J. Agric. Res. 57: 953-959

142. Crismani W, Baumann U, Sutton T, Shirley N, Webster T, Spangenberg G, Langridge P, Able JA. (2006) Microarray expression analysis of meiosis and microsporogenesis in hexaploid bread wheat. BMC Genomics; 7, 267

143. Varshney RK, Sigmund R, Boerner A, Korzun V, Stein N, Sorrells M, Langridge P, Graner A (2005). Interspecific transferability and comparative mapping of barley EST-SSR markers in wheat, rye and rice. Plant Science, 168: 195-202

144. Sprunck S., Baumann U., Edwards K., Langridge P., Dresselhaus T. (2005) The Transcript Composition of Egg Cells Changes Significantly Following Fertilization in Wheat (Triticum aestivum L.). Plant J. 41; 660-672

145. Dong, C., Thomas, S., Becker, D., Loerz, H., Whitford, R., Sutton, T., Able, J.A., Langridge, P., (2005) WM5: Isolation and characterisation of a gene expressed during early meiosis and shoot meristem development in wheat. Functional Plant Biol. 32; 240-258.

146. Patterson JH, Ford KL, Platt M, Sutton T, Langridge P, Fincher GB, Bacic A.(2005) A proteomic investigation of the molecular mechanisms of boron tolerance in Hordeum vulgare. C.J. Li et al (Eds), Plant nutrition for food security, human health and environmental protection, Tsinghua University Press, Beijing, China, pp174-175

147. Varshney, R.K., Zhang, H., Potokina, E., Stein, N., Langridge, P. & A. Graner (2004) A simple hybridization-based strategy for the generation of non- redundant EST collections- a case study in barley (Hordeum vulgare L.). Plant Science, 167: 629-634

148. X.-Y. Bian, A. Friedrich, J.-R. Bai, U. Baumann, D.L. Hayman, S.J. Barker, and P. Langridge (2004) High-resolution mapping of the S and Z loci of Phalaris coerulescens. Genome, 47; 918-930

149. Zhang, H., Sreenivasulu, N., Weschke, W., Stein, N., Rudd, S., Radchuk, V., Potokina, E., Scholz, U., Schweizer, P., Zierold, U., Langridge, P., Varshney, R. and Wobus, U. (2004) Large-scale analysis of the barley transcriptome based on expressed sequence tags (ESTs). Plant J. 40; 276-290

150. Caldwell, K.S., Langridge, P. and Powell, W. (2004). Comparative sequence analysis of the region harboring the hardness locus (Ha) in barley and its colinear region in rice. Plant Physiol. 136; 3177-3190

151. Powell W. and Langridge, P. (2004) Unfashionable species flourish in the 21st Century. Genome Biology 5: Art. No. 233

152. Langridge P, Barr A (2003) Preface Aust. J. Agric Res. 54, I-IV

153. Mayo G, Langridge P (2003) Modes of reproduction in Australian populations of Hypericum perforatum L. (St. John’s wort) revealed by DNA fingerprinting and cytological methods. Genome 46, 573-579

154. Madsen LH, Collins NC, Rakwalska M, Backes G, Sandal N, Krusell L, Jensen J, Waterman EH, Jahoor A, Ayliffe M, Pryor AJ, Langridge P, Schulze-Lefert P, Stougaard J. (2003) Barley disease resistance gene analogs of the NBS-LRR class – identification and mapping. Mol. Genet. Genom. 269, 150-161

155. Jefferies SP, King BJ, Barr AR, Warner P, Logue SJ, Langridge P (2003) Marker-assisted backcross introgression of the Yd2 gene conferring resistance to barley yellow dwarf virus in barley. Plant Breeding 122, 52-56

156. Sutton T, Whitford R, Baumann U, Dong C, Able JA, Langridge P (2003) The Ph2 pairing homoeologous locus of wheat (Triticum aestivum): identification of candidate meiotic genes using a comparative genetics approach. Plant J 36, 443-456

157. Karakousis A, Langridge P. (2003) A high throughput plant DNA extraction method for marker analysis. Plant Mol. Biol. Rep. 21, 95a-95f

158. Sutherland CM, Henschke PA, Langridge P, and de Barros Lopes M. (2003) Subunit and cofactor binding of Saccharomyces cerevisiae sulfite reductase – towards developing wine yeast with lowered ability to produce hydrogen sulfide. Aust. J. Grape Wine Res. 9, 196-193

159. Karakousis A, Gustafson JP, Chalmers KJ, Barr AR, Langridge, P. (2003) A consensus map of barley integrating SSR, RFLP, and AFLP markers. Aust. J. Agric Res. 54, 1173-1185

160. Karakousis A, Barr AR, Chalmers KJ, Ablett GA, Holton TA, Henry RJ, Lim P, Langridge P. (2003) Potential of SSR markers for plant breeding and variety identification in Australian barley germplasm. Aust. J. Agric Res. 54, 1197-1210

161. Karakousis A, Barr AR, Kretschmer JM, Manning S, Logue SJ, Roumeliotis S, Collins HM, Chalmers KJ, Lance RCM, Langridge P, Li CD. (2003) Mapping and QTL analysis of the barley population Galleon x Haruna Nijo. Aust. J. Agric Res. 54,1131-1135

162. Karakousis A, Barr AR, Kretschmer JM, Manning S, Islam AKM, Langridge P, Chalmers KJ, Jefferies SP. (2003) Mapping and QTL analysis of the barley population Clipper x Sahara. Aust. J. Agric Res. 54, 1137-1140

163. Coventry SJ, Collins HM, Barr AR, Jefferies SP, Chalmers KJLogue SJ, Langridge P. (2003) Use of putative QTL and structural genes in marker assisted selection for diastatic power in malting barley (Hordeum vulgare L.). Aust. J. Agric Res. 54, 1241-1250

164. Barr AR, Karakousis A, Lance RCM, Logue SJ, Manning S, Chalmers KJ, Kretschmer JM, Collins HM, Roumeliotis S, Coventry SJ, Moody DM, Read BJ, Poulsen D, Li CD, Platz GJ, Inkerman A, Panozzo JF, Cullis BR, Smith AB, Lim P, Langridge P, Boyd WJR. (2003) Mapping and QTL analysis of the barley population Chebec x Harrington. Aust. J. Agric Res. 64, 1125-1130

165. Ablett GA, Karakousis A, Cakir M, Holton TA, Banbury L, Langridge P, Henry RJ. (2003) Application of SSR markers in the construction of Australian barley genetic maps. Aust. J. Agric Res. 54, 1187-1195

166. Cakir M, PoulsenD, Galwey NW, Ablett GA, Chalmers KJ, Platz GJ, Park RF, Lance RCM, Panozzo JF, Read BJ, Moody DB, Barr AR, Johnston P, Li CD, Grime CR, Appels R, Jones MGK, Langridge P, Boyd WJR. (2003) Mapping and QTL analysis of the barley population Tallon x Kaputar. Aust. J. Agric Res. 54, 1155-1162

167. Ma Y.F. Langridge, P. Logue, S.J. Evans, D.E. (2002) A single amino acid substitution that determines the IEF band pattern of barley beta-amylase. J. Cereal Sci. 35; 79-84

168. Dong C., Whitford R., Langridge P. (2002) A mismatch repair gene linked to the Ph2 locus of wheat. Genome 45; 116-124

169. Parker G.D., Fox P.N., Langridge P., Chalmers K., Whan B. and Ganter P. (2002) Genetic diversity within Australian wheat breeding programs based on molecular and pedigree data. Euphytica, 124, 293-306

170. Steffenson B, Langridge P, Effertz R (2002) Genetics and mapping of powdery mildew resistance in the Harrington/Chebec and Clipper/Sahara doubled haploid populations. Barley Genetics Newsletter, 29

171. Eglinton J.M., Heinrich A.J., Pollnitz A.P., Langridge P., Henschke PA. Lopes MD. (2002) Decreasing acetic acid accumulation by a glycerol overproducing strain of Saccharomyces cerevisiae by deleting the ALD6 aldehyde dehydrogenase gene. Yeast. 19; 295-301

172. Li C.D., Langridge P., Zhang X.Q., Eckstein P.E., Rossnagel B.G., Lance R.C.M. Lefol E.B., Lu M.Y., Harvey B.L. Scoles G.J. (2002). Mapping of barley (Hordeum vulgare L.) beta-amylase alleles in which an amino acid substitution determines beta-amylase isoenzyme type and the level of free beta-amylase. J. Cereal Sci. 35, 39-50, 2002

173. Varshney RK, Thiel T, Stein N, Langridge P, Graner A. (2002) In silico analysis on frequency and distribution of microsatellites in ESTs of some cereal species. Cell Mol. Biol. Lett. 7, 537-546

174. Harvey P.R., Langridge P., Marshall D.R. (2001) Genetic drift and host-mediated selection cause genetic differentiation among Gaeumannomyces graminis populations infecting cereal in southern Australia. Mycol. Res. 105; 927-935

175. Langridge P. Lagudah E. Holton T. Appels R. Sharp P., Chalmers K. (2001) Trends in genetic and genome analyses in wheat: a review. Aust. J. Agric. Res. 52; 1043-1077

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

177. Ma Y.F., Evans D.E., Logue S.J., Langridge P. (2001) Mutations of barley β-amylase that improve its thermostability and substrate-binding affinity. Mol. Gen. Genet. 266; 345-352

178. Marshall D.R., Langridge P., Appels R. (2001) Wheat breeding in the new century - Preface Aust. J. Agric. Res. 52; I-IV, 2001.

179. Ma, Y., Stewart, D.C., Eglinton, J.K., Logue, S.J., Langridge, P. Evans, D.E. (2000) Comparative enzyme kinetics of two allelic forms of barley (Hordeum vulgare L.) beta-amylase. J. Cereal Sci., 31, 335-344

180. Parker, G.D. Langridge, P. (2000) Development of a STS marker linked to a major locus controlling flour colour in wheat (Triticum aestivum L.) Mol. Breeding, 6, 169-174

181. Baumann, U., Juttner, J., Bian, X.Y. Langridge, P. (2000) Self-incompatibility in the grasses. Annals Botany. 85(Suppl A), 203-209

182. Yap, N, de Barros Lopes, M, Henschke, PA Langridge, P (2000) The incidence of killer activity of non-Saccharomyces yeasts towards endigenous yeast species of gape must: potential application in wine fermentation. J. Appl. Microbiol., 89, 381-389

183. Huang, C., Barker, S.J., Langridge, P., Smith, F.W. Graham, R.G. (2000) Zinc deficiency up-regulates expression of high-affinity phosphate transporter genes in both phosphate-sufficient and –deficient barley roots. Plant Physiol. 124, 415-422

184. Ma, Y., Eglinton, J.K., Evans, D.E., Logue, S.J. Langridge, P. (2000) Removal of the four C-terminal glycine-rich repeats enhances thermostability and substrate binding affinity of barley -amylase. Biochemistry. 39, 13350-13355

185. De Barros Lopez, M., ur-Rehman, A., Gockowiak, H., Heinrich, A.J., Langridge, P. Henschke, P.A. (2000) Fermentation properties of a wine yeast over-expressing the Saccharomyces cerevisiae glycerol 3-phosphate dehydrogenase gene (GPD2). Aust. J. Grape Wine Res. 6, 208-215

186. Juttner J., Olde D., Langridge P. Baumann U. (2000) Cloning and expression of a distinct subclass of plant thioredoxins. European J. Biochem. 267, 7109-7117

187. Bai J.R., Liu R.T., Guo X.R., Hou B.Y., Langridge, P. (2000) Identification of Haynaldia villosa translocation lines with resistant gene to powdery mildew in wheat by AFLP markers. Acta Agric. Boreali-Sinica. 15, 29-34

188. Jefferies, S.P. Pallotta, M.A. Paull, J.G. Karakousis, A. Kretschmer, J.M., Manning, S., Islam, A.K.M.R., Langridge, P. and Chalmers, K.J. (2000) Mapping and validation of chromosome regions conferring boron toxicity tolerance in wheat (Triticum aestivum). Theor. Appl. Genet. 101, 767-77

189. Pallotta M.A., Graham R.D., Langridge P., Sparrow D.H.B., Barker S.J. (2000) RFLP mapping of manganese efficiency in barley. Theor. Appl. Genet. 101, 1100-1108

190. Parker, G.D., Chalmers, K.J., Rathjen, A.J. Langridge, P. (1999) Mapping loci associated with milling yield in wheat (Triticum aestivum L.). Mol. Breeding, 5, 561-568

191. Jefferies, S.P., Barr, A.R., Karakousis, A., Kretschmer, J.M., Manning, S., Chalmers, K.J., Nelson, J.C., Islam, A.K.M.R. Langridge, P. (1999) Mapping of chromosome regions conferring boron toxicity tolerance in barley (Hordeum vulgare L.) Theor. Appl. Genet. 98, 1293-1303

192. Williams, K.J., Lichon, A., Gianquitto, P., Kretschmer, J.M., Karakousis, A., Manning, S., Langridge, P. Wallwork, H. (1999) Identification and mapping of a gene conferring resistance to the spot form of net blotch (Pyrenophora teres f maculata) in barley. Theor. Appl. Genet., 99, 323-327.

193. Lopes, M.D., Rainieri, S., Henschke, P.A. Langridge, P. (1999) AFLP fingerprinting for analysis of yeast genetic variation. Intl J. Syst. Bacteriology. 49, 915-924

194. Langridge, P., Baumann, U. Juttner, J. (1999) Revisiting and revising the self-incompatibility genetics of Phalaris coerulescens. Plant Cell. 11, 1826

195. Paull, J.G., Chalmers, K.J., Karakousis, A., Kretschmer, J.M., Manning, S. and Langridge, P. (1998) Genetic diversity in Australian wheat varieties and breeding material based on RFLP data. Theor. Appl. Genet. 96, 435-446.

196. De Barros Lopes, M., Soden, A., Martens, A., Henschke, P.A. Langridge, P. (1998) The differentiation and species identification of yeasts using the polymerase chain reaction. Int. J. System. Bacter. 48, 279-286.

197. Langridge, P., Guo, R.Q., Francki, M., Langridge, U. (1998) Isolation of lambda and YAC clones from defined regions of the rye genome. Mol Gen. Genet. 257, 568-575

198. Barr, A.R., Chalmers, K.J., Karakousis, A., Kretschmer, J.M., Manning, S., Lance, R.C.M., Lewis, J., Jefferies, S.P. Langridge, P. (1998) RFLP mapping of a new Cereal Cyst Nematode resistance locus in barley. Plant Breeding, 117, 185-187

199. Parker, G.D., Chalmers, K.J., Rathjen, A.J. Langridge, P. (1998) Mapping loci associated with flour colour in wheat (Triticum aestivum L.). Theor. Appl. Genet. 97, 238-245

200. Taylor, C., Shepherd, K.W. Langridge, P. (1998) RFLP map of the long arm of rye chromosome 6 including location of a cereal cyst nematode resistance locus. Theor. Appl. Genet. 97, 1000-1012

201. Eglinton, J.K., Langridge, P. Evans, D.E. (1998) Thermostability variation in alleles of barley beta-amylase. J. Cereal Chem., 28, 301-309

202. Murphy, P.J., Langridge, P. Smith, S.E. (1997) Cloning plant genes differentially expressed during colonisation of Hordeum vulgare L by the vesicular-arbuscular mycorrhizal fungus Glomus intraradices. New Phytol. 135, 291-301.

203. Banik, M., Li, C.-D., Langridge, P. Fincher, G.B. (1997) Structure, hormonal regulation and chromosomal location of genes encoding barley (14)--xylan endohydrolases. Mol. Gen. Genet. 253, 599-608.

204. Baumann, U. Langridge, P. (1997) A pollen specific cDNA of Phalaris coerulescens shows homology to Zm13. Sex. Plant Reprod., 10, 124-125.

205. Li, Xin-Min, Paech, N., Nield, J., Hayman, D. Langridge, P. (1997) Self-incompatibility in the grasses: Evolutionary relationship of the S gene from Phalaris coerulescens to homologous sequences in other grasses. Plant Mol. Biol., 34, 223-232.

206. Kretschmer, J.M., Chalmers, K.J., Choe, Y.W., Manning, S., Karakousis, A., Barr, A.R., Islam, A.K.M.R., Logue, S.J., Barker, S.J., Lance, R.C.M. Langridge, P. (1997) RFLP mapping of the Ha2 cereal cyst nematode resistance gene in barley. Theor. Appl. Genet., 94, 1060-1064.

207. Li, Xin-Min, Guo, R., Pedersen, C., Hayman, D Langridge, P. (1997) Physical localisation of rDNA genes by two-colour fluorescent in situ hybridisation and sequence analysis of the 5S rDNA gene in Phalaris coerulescens. Hereditas, 126, 289-294.

208. Pedersen, C. Langridge, P. (1997) Identification of the entire chromosome complement of hexaploid wheat (Triticum aestivum L.) by two-colour FISH. Genome, 40, 589-593.

209. Williams, K.J., Fisher, J.M. 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.

210. Li, C-D., Langridge, P., Lance, R.C.M., Xu, P. Fincher, G.B. (1996) Seven members of the (13)--glucanase gene family in barley (Hordeum vulgare) are clustered on the long arm of chromosome 3 (3HL) Theor. Appl. Genet. 92, 791-796.

211. Blake, T.K., Kadyrzhanova, D., Shepherd, K.W., Islam, A.K.R.M., Langridge, P., McDonald, C.L., Erpelding, J., Larson, S., Blake, N.K. Talbert, L.E. (1996) STS-PCR markers appropriate for wheat-barley introgression. Theor. Appl. Genet. 93, 826-832.

212. Li, Xin-Min, Nield, J., Hayman, D. Langridge, P. (1996) A self-fertile mutant of Phalaris produces an S protein with reduced thioredoxin activity. Plant J. 10, 505-513.

213. Jiranek, V., Langridge, P. Henschke, P. (1996) Determination of sulphite reductase activity and its response to assimilable nitrogen status in a commercial Saccharomyces cerevisiae wine yeast. J Bacteriol. 81, 329-336.

214. De Barros Lopes, M., Soden, A., Henschke, P.A. Langridge, P. (1996) PCR differentiation of commercial yeast strains using intron splice site primers. Appl. Environ. Microbiol. 62, 4514-4520.

215. Jiranek, V., Langridge, P. Henschke, P. (1995) Regulation of hydrogen sulfide liberation in wine-producing Saccharomyces cerevisiae by assimilable nitrogen. Appl. Env. Microbiol. 61, 461-467.

216. Bagheri, A., Paull, J.G., Langridge, P. Rathjen, A.J. (1995) Genetic distance detected with RAPD markers among selected Australian commercial varieties and boron tolerant exotic germplasm of pea. Mol. Breeding 1, 193-197.

217. Li, Xin-Min, Nield, J., Hayman, D. Langridge, P. (1995) Thioredoxin activity in the C terminus of Phalaris S protein. Plant J. 8, 133-138.

218. Jiranek, V., Langridge, P. Henschke, P. (1995) Amino acid and ammonium utilization by Saccharomyces cerevisae wine yeasts from a chemically defined medium. Amer. J. Enol. Vit. 46, 75-83.

219. Jiranek, V., Langridge, P. Henschke, P. (1995) Validation of bismuth containing indicator media for predicting H2S-producing potential of Saccharomyces cerevisiae wine yeasts under enological conditions. Amer. J. Enol. Vit. 46, 269-273.

220. Wilkes, T.M., Francki, M.J., Langridge, P., Karp, A., Jones, N. Forster, J.W. (1995) Analysis of rye B-chromosomes by the use of fluorescence in situ hybridisation (FISH) Chromosome Research, 3, 466-472.

221. Langridge, P., Karakousis, A., Collins, N. Kretschmer, J. Manning, S. (1995) A consensus linkage map of barley. Mol. Breeding, 1, 389-395.

222. Stummer, B., Smith, S.E. Langridge, P. (1995) Transformation of Verticordia grandis. Plant Science 111, 51-62.

223. Liang-Hui Ji and Langridge, P. (1994) An early meiosis cDNA clone from wheat. Mol. Gen. Genet. 243, 17-23.

224. Zanker, H., Lurz, G., Langridge, U., Langridge, P. Schröder, J. (1994) Octopine and nopaline oxidases from Ti plasmids of Agrobacterium tumefaciens: Molecular analysis, relationship and functional characterization. J. Bacteriol. 176, 4511-4517.

225. Williams, K., Fisher, J. Langridge, P. (1994) Identification of RFLP markers linked to the cereal cyst nematode resistance gene (Cre) in wheat. Theor. Appl. Genet. 89, 927-930.

226. Francki, M. Langridge, P. (1994) The molecular identification of the midget chromosome from the rye genome. Genome 37, 1056-1061.

227. Xinmin Li, Nield, J., Hayman,D. Langridge, P. (1994) Cloning a putative self-incompatibility gene from the pollen of the grass Phalaris coerulescens. Plant Cell 6, 1923-1924.

228. Paull, J.G., Pallotta, M.A., Langridge, P. The, T.T. (1994) RFLP markers associated with Sr22 and recombination between chromosome 7A of bread wheat and the diploid species Triticum boeoticum. Theor. Appl. Genet. 89, 1039-1045.

229. Rogowsky, P., Sorrels, M.E., Shepherd, K.W. Langridge, P. (1993) Characterisation of wheat-rye recombinants with RFLP and PCR probes. Theor. Appl. Genet., 85, 1023-1028.

230. Singh, N.K., Carpenter, H.C., Donovan, G.R., Skerritt, J.H. Langridge, P. (1993) Presence of a lysine-rich repetitive domain in the sequence of wheat seed storage protein triticin. Plant Mol. Biol., 22, 227-237.

231. Guidet, F.L.Y. Langridge, P. (1992) An ultra rapid method to prepare yeast chromosome for pulsed field electrophoresis. BioTechniques, 12, 376.

232. Guidet, F.L.Y. Langridge, P. (1992) La farine et le grain: matériel idéal pour la préparation de très grands fragments d'ADN analysables par électrophorèse en champ pulsé. Compte-Rendu des Academie des Science, Paris, 314, 7-13.

233. Langridge, P., Brettschneider, R., Lazzeri, P. Lörz, H. (1992) Transformation of cereals via Agrobacterium and the pollen pathway: A critical assessment. Plant J. 2, 631-638

234. Rogowsky, P. Liu J-Y., Manning, S., Taylor, C. Langridge, P. (1992) Structural heterogeneity in the R173 family of rye specific repetitive DNA sequences. Plant Mol. Biol., 20, 95-102.

235. Rogowsky, P., Shepherd, K.W. Langridge, P. (1992) PCR based mapping of rye involving repeated DNA sequences. Genome, 35, 621-626.

236. Guidet, F.L.Y., Rogowsky, P., Taylor, C. Langridge, P. (1991) Cloning and characterisation of a new rye specific repeated sequence. Genome, 34, 81-87.

237. Petering, J.E., Henschke, P.A. Langridge, P. (1991) The Escherichia coli B-glucuronidase gene as a marker for Saccharomyces yeast strain identification. Amer. J. Vitic. Oenol., 42, 6-12.

238. Rogowsky, P., Manning, S., Langridge, P. (1991) The R173 family of rye specific repetitive DNA sequences: A structural analysis. Genome, 34, 88-95.

239. Song, W. Langridge, P. (1991) Identification and mapping of polymorphisms in cereals based on the polymerase chain reaction. Theor. Appl. Genet., 82, 209-216.

240. Jiranek, V., Langridge, P. Henschke, P. (1991) Yeast nitrogen demand: Selection criterion for wine yeasts for fermenting low nitrogen musts: Proc. Intl Symp. Nitrogen Grapes Wine : 266-269

241. Singh NK, Shepherd KW, Langridge P; et al. (1991) Purification and biochemical characterisation of Triticin, a legumin-like protein in wheat endosperm. J. Cereal Science 13: 207-219

242. Rogowsky, P. Guidet, F.L.Y., Langridge, P., Shepherd, K.W. Koebner, R.M.D. (1991) Isolation and characterisation of wheat-rye recombinants involving chromosome arm 1DS of wheat. Theor. Appl. Genet. 82, 537-544.

243. Langridge, P., Lazzeri, P. Lörz, H. (1991) A segment of rye chromosome l enhances growth and embryogenesis of calli derived from immature embryos of wheat. Plant Cell Reports, 10, 148-151.

244. Petering JE, Symons MR, Langridge P, Henschke P. (1991) Determination of killer toxin activity in fermenting grape juice using a marked Saccharomyces wine yeast strain. Appl. Environ. Microbiol. 57, 3232-3236.

245. Langridge U, Schwall M, Langridge P. (1991) Squashes of plant tissue as substrate for PCR. Nuc. Acids Res. 19, 6954.

246. Liang-Hui Ji, Langridge P. (1990) The genetic control of chromosome pairing in wheat. Aust. J. Plant Physiol., 17, 239-251.

247. Loerz H, Brettschneider R, Hartke S, Langridge P. (1990) In vitro manipulation of barley and other cereals. Gene Manipulation in Plant Improvement Ii : 185-201

248. Rohde W, Randles JW, Langridge P, Hanold D. (1990) Nucleotide sequence of the circular single-stranded DNA genome of coconut foliar decay disease virus. Virology, 176, 648-651.

249. Guidet F, Rogowsky P, Langridge P. (1990) A rapid method for preparing megabase plant DNA. Nucl. Acids Res., 18, 4955.

250. Singh NK, Shepherd KW, Langridge P, Gruen LC. (1990) Biochemical characterisation of triticin, a legumin-like protein of wheat endosperm. J. Cereal Sci. 13, 207-219

251. Hanold D, Langridge P, Randles JW. (1988) Construction and use of cloned sequences for the identification of Coconut Foliar Decay Disease-associated DNA. J. Gen. Virology, 69, 1323-1329.

252. Singh NK, Shepherd KW, Langridge P, Gruen LC, Skerritt JH, Wrigley CW. (1988) Identification of legumin-like proteins in wheat. Plant Molecular Biology, 11, 633-639.

253. Petering J, Henschke P, Langridge P. (1988) Fingerprinting wine yeasts: The application of chromosome electrophoresis. Aust. N.Z. Wine Industry Technical Journal, 3, 48-52.

254. Brooker J D, Langridge, P.; Hynd, P. I.; et al. (1987) Increased productivity in ruminants through genetic manipulation of rumen bacteria. Temperate pastures: their production, use and management. 373-375

255. Jaynes, J., Langridge P, Anderson K, Bond C, Newman CW, Newman R. (1985) Construction and expression of synthetic DNA fragments coding for polypeptides with elevated levels of essential amino acids. Applied Microbiol. Biotechnology, 21, 200-205.

256. Langridge P, Brown JWS, Pintor-Toro JA, Feix G, Neuhaus G, Neuhaus-Url G. Schweiger HG. (1985) Expression of zein genes in Acetabularia mediterranea. Eur. J. Cell Biol., 39, 257-264.

257. Brown JWS, Langridge P, Feix G. (1985) Expression of zein genes and possible intron structure(s). Maize Genetics Cooperation Newsletter : 59 : 48

258. Langridge P, Eibel H, Brown, JWS, Feix G. (1984) Transcription from maize storage protein gene promoters in yeast. EMBO J. 3, 2467-2471.

259. Feix G, Langridge P. (1984) Expression of the zein genes of maize. Kulturpflanze : 32: S67-S68

260. Langridge P, Brown J, Feix G. (1984) The zein gene promoter system. Maize Genetics Cooperation Newsletter 58: 88-89

261. Langridge P, Feix G. (1983) A zein gene of maize is transcribed from two widely separated promoter regions. Cell, 34: 1015-1022.

262. Langridge P, Pintor-Toro JA, Feix G. (1982) Transcriptional effects of the opaque-2 mutation of Zea mays. Planta, 156: 166-170.

263. Kossel H, Edwards K, Koch W et al. (1982) Structural and functional analysis of an rRNA operon and its flanking tRNA genes from Zea mays chloroplasts. Nucleic Acids Symp Ser 11: 117-120

264. Zenke G, Edwards K, Langridge P (1982) The rRNA operon from maize chloroplasts: analysis of in vivo transcription products in relation to its structure. Prog Clin Biol Res : 102: 309-319

265. Pintor-Toro JA, Langridge P, Feix G. (1982) Cloning and analysis of genes of the zein multigene system. Maize Genetics Cooperation News Letter, 56: 68-69

266. Langridge P, Pintor-Toro JA, Feix G. (1982) Direction of zein gene transcription in maize genomic clones. Biochem. Biophys. Res. Commun., 107, 1236-1242.

267. Langridge P, Pintor-Toro JA, Feix G. (1982) Transcriptional studies of the zein system. Maize Genetics Cooperation News Letter, 56: 69

268. Langridge P, Pintor-Toro JA, Feix G. (1982) Zein precursor mRNAs from maize endosperm. Molec. Gen. Genet., 187: 432-438.

269. Pintor-Toro JA, Langridge P, Feix G. (1982) Isolation and characterization of maize genes coding for zein proteins of the 21,000 dalton size class. Nucl. Acids Res., 10: 3845-3860.

270. Feix G, Langridge P, Pintor-Toro JA, (1981) Charaterisation of zein genomics clones and the opaque mutation of Zea mays. Proc. . Int.l Bot. Congress, 13: 114

271. Langridge P. (1981) Synthesis of the large subunit of ribulose bisphosphate carboxylase may involve a precursor polypeptide. FEBS Letts. 123: 85-89.

272. Langridge P, Moran GF, Brown AHD. (1981) Biochemical genetics of some seed proteins of Pinus radiata. Biochem. Genet. 19: 585-597.

273. Wienand U, Langridge P, Feix G. (1981) Isolation and characterization of a genomic sequence of maize coding for a zein gene. Molec. Gen. Genet. 182: 440-444.

274. Langridge P. (1980) In vitro synthesis of a precursor of the large subunit of ribulose bisphosphate carboxylase by spinach chroroplast RNA. European J. Cell Biol. 22: 140-140

275.

276. Langridge J, Langridge P, Berquist PL (1980) Extraction of nucleic acids from agarose gels. Anal. Biochem. 103:264-271

277. Hamilton D, Langridge P. (1976) Trinucleate pollen in the genus Populus. Experientia, 32: 467-468.

# PATENTS

1. Sutton T, Baumann U, Hayes J Langridge P (2014) Boron transporter. Patent Number: US 08629254, Official Gazette of the United States Patent and Trademark Office Patents Published: JAN 14 2014

2. Lopato S, Morran S, Eini O, Langridge P (2014) Drought responsive expression of genes from the Zea mays Rab17 promoter. Patent Number: US 08766037. Official Gazette of the United States Patent and Trademark Office Patents. Published: JUL 1 2014

3. Lopato S, Kovalchuk N, Langridge P. (2012) Stress responsive gene expression. WO/2012/116396

4. Lopato S, Kovalchuk N, Langridge P, Shirley N. (2011) Modulation of plant cell wall deposition via HD-ZIPI, WO2010/034066 AU US

5. Lopato S, Morran S, Eini O, Langridge P. (2011) Drought Responsive Expression (DREB1/RAB-17) in wheat. WO2010/121316

6. Sutton T, Baumann U, Hayes J, Langridge P, (2010), Boron Transporter, WO 2008/083441 A1, US Patent US2010/0281583,

# NON-SPECIALIST JOURNAL AND POPULAR MEDIA ARTICLES

1. Langridge P. (2014) GM techniques: from the field to the laboratory (and back again). The Conversation http://theconversation.com/gm-techniques-from-the-field-to-the-laboratory-and-back-again-25753

2. Langridge P. (2014) Agriculture in Australia: growing more than our farming future. The Conversation http://theconversation.com/agriculture-in-australia-growing-more-than-our-farming-future-22843

3. Langridge P (2014) Technology development, delivery, partnerships and engagement: critical for success of Dryland Cereals. http://drylandcereals.cgiar.org/technology-development-delivery-partnerships-and-engagement-critical-for-success-of-dryland-cereals/

4. Langridge, P. (2013) Food for thought. In ”The Curious Country: The Role of Science in Australian Society” Ed, L Dayton, Office of the Chief Scientist.

5. Langridge P. (2013) Australia can’t feed the world but it can help. The Conversation. http://theconversation.com/australia-cant-feed-the-world-but-it-can-help-11269

6. Prasad S, Langridge P (2012) Australia’s role in global food security. Occasional Paper Series, Issue 5. Office of the Chief Scientist.

7. Langridge P. (2012) Letter to the editor. Food Chem Toxicol. 2012 Nov 6. doi:pii: S0278-6915(12)00801-0. 10.1016/j.fct.2012.10.056

8. Langridge P (2011) Editorial: Agronomy – A multidiscipinary and open access journal. Agronomy 1:1-2 doi:10.3390/agronomy1010001

9. PMSEIC (2010). Australia and Food Security in a Changing World. The Prime Minister’s Science Engineering and Innovation Council, Canberra, Australia

10. Feuillet C, Langridge P, Waugh R. (2008) The Aaronsohn-ITMI Workshop. Israel J Plant Sci. 55:315-319

11. Tester, M, Langridge, P (2008) Crops aren't invasive. New Scientist, 197: 24

12. Paltridge N, Langridge P, Fincher GB (2007) GM Wheat and Barley I: Genetics, Reproductive Biology and Agronomic Considerations. AIAST Review; 11-18

13. Schnurbusch, T., Huang, C., Collins, N.C., Sutton, T., John, U., Roy, S., Paltridge, N., Tester, M., Langridge P. & Fincher, G.B. (2007) GM wheat and barley II. Prospects for enhanced productivity and quality. AIAST Review, 21;4-10

14. Langridge P, Fincher GB (2002) Prospects for Functional Genomics in the Improvement of Cereal Quality and Productivity. Today’s Life Science 3, 28-32

15. Langridge P., Fincher G.B. (2002) Cereal crops as targets for genomics research. Today’s Life Sci. 14, 28-32

16. Langridge P. (2000) GM crops and foods: current status. Chemistry in Australia. 67, 8-11.

17. Langridge, P (1998) Progress and prospects for plant genomics. Aust. Biochem. 29, 5-7