

REVIEW

Quantitative trait loci of stripe rust resistance in wheat

G.M. Rosewarne · S.A. Herrera-Foessel · R.P. Singh · J. Huerta-Espino · C.X. Lan · Z.H. He 2427

ORIGINAL PAPERS

Increasing the density of markers around a major QTL controlling resistance to angular leaf spot in common bean

P.R. Oblessuc · J.M.K. Cardoso Perseguini · R.M. Baroni · A.F. Chiorato · S.A.M. Carbonell · J.M.C. Mondego · R.O. Vidal · L.E.A. Camargo · L.L. Benchimol-Reis 2451

The *Pontin* series of recombinant alien translocations in bread wheat: single translocations integrating combinations of *Bdv2*, *Lr19* and *Sr25* disease-resistance genes from *Thinopyrum intermedium* and *Th. ponticum*

L.I. Ayala-Navarrete · A.A. Mechanicos · J.M. Gibson · D. Singh · H.S. Bariana · J. Fletcher · S. Shorter · P.J. Larkin 2467

Introgression of stem rust resistance genes *SrTA10187* and *SrTA10171* from *Aegilops tauschii* to wheat

E.L. Olson · M.N. Rouse · M.O. Pumphrey · R.L. Bowden · B.S. Gill · J.A. Poland 2477

Molecular characterization of field resistance to Fusarium head blight in two US soft red winter wheat cultivars

S. Liu · C.A. Griffey · M.D. Hall · A.L. McKendry · J. Chen · W.S. Brooks · G. Brown-Guedira · D. Van Sanford · D.G. Schmale 2485

Characterization of the quantitative trait locus *OilA1* for oil content in *Brassica napus*

Y. Chen · L. Qi · X. Zhang · J. Huang · J. Wang · H. Chen · X. Ni · F. Xu · Y. Dong · H. Xu · J. Zhao 2499

Major QTL for Fusarium crown rot resistance in a barley landrace

G.D. Chen · Y.X. Liu · Y.M. Wei · C.L. McIntyre · M.X. Zhou · Y.-L. Zheng · C.J. Liu 2511

Genetic map of the primocane-fruiting and thornless traits of tetraploid blackberry

P. Castro · E.T. Stafne · J.R. Clark · K.S. Lewers 2521

The detection of QTLs in barley associated with endosperm hardness, grain density, grain size and malting quality using rapid phenotyping tools

C.K. Walker · R. Ford · M. Muñoz-Amatrián · J.F. Panozzo 2533

Comparative mapping of *Raphanus sativus* genome using *Brassica* markers and quantitative trait loci analysis for the Fusarium wilt resistance trait

X. Yu · S.R. Choi · N. Ramchiary · X. Miao · S.H. Lee · H.J. Sun · S. Kim · C.H. Ahn · Y.P. Lim 2553

High-density genotyping: an overkill for QTL mapping? Lessons learned from a case study in maize and simulations

M. Stange · H.F. Utz · T.A. Schrag · A.E. Melchinger · T. Würschum 2563

Experimental assessment of the accuracy of genomic selection in sugarcane

M. Gouy · Y. Rousselle · D. Bastianelli · P. Lecomte · L. Bonnal · D. Roques · J.-C. Efile · S. Rocher · J. Daugrois · L. Toubi · S. Nabeneza · C. Hervouet · H. Telismart · M. Denis · A. Thong-Chane · J.C. Glaszmann · J.-Y. Hoarau · S. Nibouche · L. Costet 2575

Genome-wide association analysis for nine agronomic traits in maize under well-watered and water-stressed conditions

Y. Xue · M.L. Warburton · M. Sawkins · X. Zhang · T. Setter · Y. Xu · P. Grudloyma · J. Gethi · J.-M. Ribaut · W. Li · X. Zhang · Y. Zheng · J. Yan 2587

Multi-trait and multi-environment QTL analyses of yield and a set of physiological traits in pepper

N.A. Alimi · M.C.A.M. Bink · J.A. Dieleman · J.J. Magán · A.M. Wubs · A. Palloix · F.A. van Eeuwijk 2597

Genetic variation of six desaturase genes in flax and their impact on fatty acid composition

D. Thambugala · S. Duguid · E. Loewen · G. Rowland · H. Booker · F.M. You · S. Cloutier 2627

Fine mapping of the *Ph-3* gene conferring resistance to late blight (*Phytophthora infestans*) in tomato

C. Zhang · L. Liu · Z. Zheng · Y. Sun · L. Zhou · Y. Yang · F. Cheng · Z. Zhang · X. Wang · S. Huang · B. Xie · Y. Du · Y. Bai · J. Li 2643

Linkage mapping and identification of QTL affecting deoxynivalenol (DON) content (*Fusarium* resistance) in oats (*Avena sativa* L.)

X. He · H. Skinnes · R.E. Oliver · E.W. Jackson · Å. Bjørnstad 2655