

International Journal of Plant Breeding Research

Volume 123 Number 7 November 2011

ORIGINAL PAPERS

Application of support vector regression to genome-assisted prediction of quantitative traits

N. Long · D. Gianola · G.J.M. Rosa · K.A. Weigel 1065

QTL alleles for improved fiber quality from a wild Hawaiian cotton, *Gossypium tomentosum*

Z. Zhang · J. Rong · V.N. Waghmare · P.W. Chee · O.L. May · R.J. Wright · J.R. Gannaway · A.H. Paterson 1075

Selection for low-temperature germinability on the short arm of chromosome 3 in rice cultivars adapted to Hokkaido, Japan

K. Fujino · N. Iwata 1089

Identification and mapping of a new powdery mildew resistance gene on chromosome 6D of common wheat

H. Ma · Z. Kong · B. Fu · N. Li · L. Zhang · H. Jia · Z. Ma 1099

Identification and molecular mapping of two QTLs with major effects for resistance to *Fusarium* head blight in wheat

C. Chu · Z. Niu · S. Zhong · S. Chao · T.L. Friesen · S. Halley · E.M. Elias · Y. Dong · J.D. Faris · S.S. Xu 1107

Genome-wide association mapping of agronomic traits in sugar beet

T. Würschum · H.P. Maurer · T. Kraft · G. Janssen · C. Nilsson · J.C. Reif 1121

Genetic interactions involved in the inhibition of heading by heading date QTL, *Hd2* in rice under long-day conditions

T. Shibaya · Y. Nonoue · N. Ono · U. Yamanouchi · K. Hori · M. Yano 1133

Microsatellite mapping of *Ae. speltoides* and map-based comparative analysis of the S, G, and B genomes of Triticeae species

O. Dobrovolskaya · C. Boeuf · J. Salse · C. Pont · P. Sourdille · M. Bernard · E. Salina 1145

New Diversity Arrays Technology (DArT) markers for tetraploid oat (*Avena magna* Murphy et Terrell) provide the first complete oat linkage map and markers linked to domestication genes from hexaploid *A. sativa* L.

R.E. Oliver · E.N. Jellen · G. Ladizinsky · A.B. Korol · A. Kilian · J.L. Beard · Z. Dumlupinar · N.H. Wisniewski-Morehead · E. Svedin · M. Coon · R.R. Redman · P.J. Maughan · D.E. Obert · E.W. Jackson 1159

Seed size is determined by the combinations of the genes controlling different seed characteristics in rice

S. Yan · G. Zou · S. Li · H. Wang · H. Liu · G. Zhai · P. Guo · H. Song · C. Yan · Y. Tao 1173

Identification of the *BrRHP1* locus that confers resistance to downy mildew in Chinese cabbage (*Brassica rapa* ssp. *pekinensis*) and development of linked molecular markers

S. Kim · Y.H. Song · J.-Y. Lee · S.R. Choi · V. Dhandapani · C.S. Jang · Y.P. Lim · T. Han 1183

Gene expression profiling of resistant and susceptible soybean lines infected with soybean cyst nematode

M. Mazarei · W. Liu · H. Al-Ahmad · P.R. Arelli · V.R. Pantalone · C.N. Stewart Jr 1193

Simple sequence repeat markers linked to QTL for resistance to Watermelon mosaic virus in melon

F.J. Palomares-Rius · M.A. Viruel · F.J. Yuste-Lisbona · A.I. López-Sesé · M.L. Gómez-Guillamón 1207

Genetic map of artichoke × wild cardoon: toward a consensus map for *Cynara cardunculus*

G. Sonnante · A. Gatto · A. Morgese · F. Montemurro · G. Sarli · E. Blanco · D. Pignone 1215

Genetic diversity, structure, gene flow and evolutionary relationships within the *Sorghum bicolor* wild–weedy–crop complex in a western African region

F. Sagnard · M. Deu · D. Dembélé · R. Leblois · L. Touré · M. Diakité · C. Calatayud · M. Vaksman · S. Bouchet · Y. Mallé · S. Togola · P.C.S. Traoré 1231

A major locus *qS12*, located in a duplicated segment of chromosome 12, causes spikelet sterility in an *indica-japonica* rice hybrid

H. Zhang · C.-Q. Zhang · Z.-Z. Sun · W. Yu · M.-H. Gu · Q.-Q. Liu · Y.-S. Li 1247

Further articles can be found at www.springerlink.com

Indexed/abstracted in *Current Contents/Life Science*, *PubMed*, *Chemical Abstracts Service*, *Science Citation Index*, *Aquatic Sciences & Fisheries Abstracts*

Instructions for Authors for *Theor Appl Genet* are available at www.springer.com/00122