

# Volume 126 Number 8 August 2013

## ORIGINAL PAPERS

**Mapping QTL for grain yield and other agronomic traits in post-rainy sorghum**  
[*Sorghum bicolor* (L.) Moench]

R. Nagaraja Reddy · R. Madhusudhana · S. Murali Mohan · D.V.N. Chakravarthi ·  
S.P. Mehtre · N. Seetharama · J.V. Patil 1921

**Fine mapping *TaFLW1*, a major QTL controlling flag leaf width in bread wheat**  
(*Triticum aestivum* L.)

S. Xue · F. Xu · G. Li · Y. Zhou · M. Lin · Z. Gao · X. Su · X. Xu · G. Jiang · S. Zhang ·  
H. Jia · Z. Kong · L. Zhang · Z. Ma 1941

**Identification and mapping in spring wheat of genetic factors controlling stem rust**  
resistance and the study of their epistatic interactions across multiple environments

A. Singh · R.E. Knox · R.M. DePauw · A.K. Singh · R.D. Cuthbert · H.L. Campbell ·  
D. Singh · S. Bhavani · T. Fetch · F. Clarke 1951

**Earliness per se QTLs and their interaction with the photoperiod insensitive allele**  
*Ppd-D1a* in the Cutler × AC Barrie spring wheat population

A. Kamran · M. Iqbal · A. Navabi · H. Randhawa · C. Pozniak · D. Spaner 1965

**Radiation hybrid QTL mapping of *Tdes2* involved in the first meiotic division of wheat**

F.M. Bassi · A. Kumar · Q. Zhang · E. Paux · E. Huttner · A. Kilian · R. Dizon · C. Feuillet ·  
S.S. Xu · S.F. Kianian 1977

**Evaluation of linkage disequilibrium in wheat with an L1-regularized sparse**  
Markov network

G. Morota · D. Gianola 1991

**Association mapping of maturity and plant height using SNP markers with**  
the sorghum mini core collection

H.D. Upadhyaya · Y.-H. Wang · C.L.L. Gowda · S. Sharma 2003

**Genome-wide SNP discovery in mungbean by Illumina HiSeq**

K. Van · Y.J. Kang · K.-S. Han · Y.-H. Lee · J.-G. Gwag · J.-K. Moon · S.-H. Lee 2017

**QTLs for resistance to Phomopsis seed decay are associated with days**  
to maturity in soybean (*Glycine max*)

S. Sun · M.Y. Kim · K. Van · Y.-W. Lee · B. Li · S.-H. Lee 2029

**Genetic mapping of rust resistance genes in confection sunflower line HA-R6**  
and oilseed line RHA 397

L. Gong · T.J. Gulya · S.G. Markell · B.S. Hulke · L.L. Qi 2039

**Assessment of genetic diversity in the sorghum reference set using EST-SSR markers**

P. Ramu · C. Billot · J.-F. Rami · S. Senthilvel · H.D. Upadhyaya · L. Ananda Reddy ·  
C.T. Hash 2051

**Identification of a novel gene, *H34*, in wheat using recombinant inbred**  
lines and single nucleotide polymorphism markers

C. Li · M. Chen · S. Chao · J. Yu · G. Bai 2065

**A large-scale introgression of genomic components of *Brassica rapa* into**  
*B. napus* by the bridge of hexaploid derived from hybridization between  
*B. napus* and *B. oleracea*

Q. Li · J. Mei · Y. Zhang · J. Li · X. Ge · Z. Li · W. Qian 2073

**Mapping soybean aphid resistance genes in PI 567598B**

C. Bales · G. Zhang · M. Liu · C. Mensah · C. Gu · Q. Song · D. Hyten ·  
P. Cregan · D. Wang 2081

**Transcriptome sequencing to produce SNP-based genetic maps of onion**

J. Duangjit · B. Bohanec · A.P. Chan · C.D. Town · M.J. Havey 2093

**High-density genetic maps for loci involved in nuclear male sterility**  
(*NMS1*) and sporophytic self-incompatibility (*S*-locus) in chicory  
(*Cichorium intybus* L., Asteraceae)

L. Gonthier · C. Blassiau · M. Mörchen · T. Cadalen · M. Poiret ·  
T. Hendriks · M.-C. Quillet 2103

**Genetic dissection of yield-related traits in a recombinant inbred line**  
population created using a key breeding parent in China's wheat breeding

H. Jia · H. Wan · S. Yang · Z. Zhang · Z. Kong · S. Xue · L. Zhang · Z. Ma 2123

**Molecular mapping of leaf rust resistance gene *LrNJ97* in Chinese**  
wheat line Neijiang 977671

H. Zhou · X. Xia · Z. He · X. Li · C. Wang · Z. Li · D. Liu 2141

**QTL mapping of powdery mildew resistance in WI 2757 cucumber**  
(*Cucumis sativus* L.)

X. He · Y. Li · S. Pandey · B.S. Yandell · M. Pathak · Y. Weng 2149

**Validation and fine mapping of *lyc12.1*, a QTL for increased tomato**  
fruit lycopene content

M.P. Kinkade · M.R. Foolad 2163

**Molecular mapping of two genes conferring resistance to**  
*Phytophthora sojae* in a soybean landrace PI 567139B

F. Lin · M. Zhao · J. Ping · A. Johnson · B. Zhang · T.S. Abney ·  
T.J. Hughes · J. Ma 2177

**Fine mapping of the pleiotropic locus *B* for black spine and orange**  
mature fruit color in cucumber identifies a 50 kb region containing  
a R2R3-MYB transcription factor

Y. Li · C. Wen · Y. Weng 2187