

journal of HEREDITY

An international journal of
genomic and evolutionary diversity

Volume 99 | Number 2

March/April 2008

Maize Centromere Mapping: A Comparison of Physical and Genetic Strategies

Ron J. Okagaki, Morrison S. Jacobs, Adrian O. Stec, Ralf G. Kynast, Elizabeth Buescher, Howard W. Rines, M. Isabel Vales, Oscar Riera-Lizarazu, Martha Schneerman, Greg Doyle, Katherine L. Friedman, Rick W. Staub, David F. Weber, Terry L. Kamps, Ina F. E. Amarillo, Christine D. Chase, Hank W. Bass, and Ronald L. Phillips

Estimation of Quantitative Genetic Parameters Using Marker-Inferred Relatedness in Japanese Flounder: A Case Study of Upward Bias

Takahito Shikano

Effects of Anthocyanin and Carotenoid Combinations on Foliage and Immature Fruit Color of *Capsicum annuum* L.

Gordon J. Lightbourn, Robert J. Griesbach, Janet A. Novotny, Beverly A. Clevidence, David D. Rao, and John R. Stommel

Utility of EST-Derived SSRs as Population Genetics Markers in a Beetle

Kyung Seok Kim, Susan T. Ratcliffe, B. Wade French, Lei Liu, and Thomas W. Sappington

Associations between Candidate Gene Markers at a Quantitative Trait Locus on Equine Chromosome 4 Responsible for Osteochondritis Dissecans in Fetlock Joints of South German Coldblood Horses

Catherine Wittwer, Claudia Dierks, Henning Hamann, and Ottmar Distl

Genetic Analysis of White Facial and Leg Markings in the Swiss Franches-Montagnes Horse Breed

Stefan Rieder, Christian Hagger, Gabriela Obexer-Ruff, Tosso Leeb, and Pierre-André Poncet

Evaluating Connectivity in the Brooding Brittle Star *Astrota agassizii* across the Drake Passage in the Southern Ocean

Rebecca L. Hunter and Kenneth M. Halanych

Hybridization Dynamics between Colorado's Native Cutthroat Trout and Introduced Rainbow Trout

Jessica L. Metcalf, Matthew R. Siegle, and Andrew P. Martin

Phylogeography of an Island Endemic, the Puerto Rican Freshwater Crab (*Epilobocera sinuatifrons*)

Benjamin D. Cook, Catherine M. Pringle, and Jane M. Hughes

Recent Range Expansion and Divergence among North American Prairie Grouse

Jeff A. Johnson

Brief Communications

Biogenic Trace Amine-Associated Receptors (TAARs) Are Encoded in Avian Genomes: Evidence and Possible Implications

Jakob C. Mueller, Silke Steiger, Andrew E. Fidler, and Bart Kempenaers

A Chromosome-Specific Estimate of Transmission of Heterozygosity by $2n$ Gametes in Potato

Stanley J. Peloquin, Leonardo S. Boiteux, Philipp W. Simon, and Shelley H. Jansky

Correspondence of Trichome Mutations in Diploid and Tetraploid Cottons

Aparna Desai, Peng W. Chee, O. Lloyd May, and Andrew H. Paterson

Sex Identification of Owls (Family Strigidae) Using Oligonucleotide Microarrays

Lih Chiann Wang, Lucia Liu Severinghaus, Chi Tsong Chen, Lu Yuan Liu, Chu Hsiang Pan, Dean Huang, Hsiao Yuan Lee, Jih Tsair Lir, Shih Chien Chin, Chang En Pu, and Ching Ho Wang

187

85 AFLP Mapping of Soybean Maturity Gene *E4*

Hisakazu Matsumura, Baohui Liu, Jun Abe, and Ryoji Takahashi

193

94 Diversity of mtDNA in Southern River Otter (*Lontra provocax*) from Argentinean Patagonia

Daniela Centrón, Benjamín Ramirez, Laura Fasola, David W. Macdonald, Claudio Chehébar, Adrián Schiavini, and Marcelo H. Cassini

198

105 Estimation of the Time of Divergence between Japanese Mishima Island Cattle and Other Cattle Populations Using Microsatellite DNA Markers

Yoshitaka Nagamine, Keiji Nirasawa, Hideaki Takahashi, Osamu Sasaki, Kazuo Ishii, Mitsuru Minezawa, Senichi Oda, Peter M. Visscher, and Tsutomu Furukawa

202

112 Exploiting EST Databases for the Development and Characterization of EST-SSRs in the Pacific Oyster (*Crassostrea gigas*)

Hong Yu and Qi Li

208

125 Genetic Diversity and Origin of Leatherback Turtles (*Dermochelys coriacea*) from the Brazilian Coast

Sarah M. Vargas, Flávia C. F. Araújo, Danielle S. Monteiro, Sérgio C. Estima, Antônio P. Almeida, Luciano S. Soares, and Fabrício R. Santos

215

130 Inheritance of a One-Seeded Pod Trait in Peanut

William D. Branch

221

A Tetraploid Amazon Molly, *Poecilia formosa*

Kathrin P. Lampert, Dunja K. Lamatsch, Petra Fischer, and Manfred Schartl

223

137 Computer Notes

149 MBP (Version 1.0): A Software Package to Optimize Maize Breeding Procedures Based on Doubled Haploid Lines

Gerardo A. Gordillo and Hartwig H. Geiger

227

157 GGT 2.0: Versatile Software for Visualization and Analysis of Genetic Data

Ralph van Berloo

232

Book Review

165 Shiny Pebbles on the Beach, by Norman A. Johnson

Christopher Wills

237

Announcements

238

174 Announcements

177 2008 Annual Meeting, American Genetic Association, June 4–7, 2008. "Genetics and Genomics of Behavior." Wilhelmine Key Lecturer: Mariana Wolfner

The 2008 meeting of the American Genetic Association will be hosted by 2008 President Trudy McKay at the Raleigh Sheraton Hotel, Raleigh, North Carolina.

182