

# International Plant Breeding Symposium

Honoring John W. Dudley

<p><b>Plant Breeding in Times of Change</b> Rex Bernardo and Martin O. Bohn</p> <p><b>History, Contribution, and Future of Quantitative Genetics in Plant Breeding: Lessons From Maize</b> Arnel R. Hallauer</p> <p><b>From Means to QTL: The Illinois Long-Term Selection Experiment as a Case Study in Quantitative Genetics</b> J.W. Dudley</p> <p><b>Translational Bioinformatics: At the Interface of Genomics and Quantitative Genetics</b> William D. Beavis, Faye D. Schilkey, and Susan M. Baxter</p> <p><b>Prebreeding in Common Bean and Use of Genetic Diversity from Wild Germplasm</b> Jorge A. Acosta-Gallegos, James D. Kelly, and Paul Gepts</p> <p><b>Bridging Genomics and Genetic Diversity: Linkage Disequilibrium Structure and Association Mapping in Maize and Other Cereals</b> Jean-Baptiste Veyrieras, Letizia Camus-Kulandaivelu, Brigitte Gouesnard, Domenica Manicacci, and Alain Charcosset</p> <p><b>Breeding for Modified Fatty Acid Composition in Soybean</b> Walter R. Fehr</p> <p><b>HarvestPlus: Breeding Crops for Better Nutrition</b> Wolfgang H. Pfeiffer and Bonnie McClafferty</p> <p><b>Candidate Gene Approach to Identify Genes Underlying Quantitative Traits and Develop Diagnostic Markers in Potato</b> Christiane Gebhardt, Li Li, Karolina Pajeroska-Mukhtar, Ute Achenbach, Amirali Sattarzadeh, Christina Bormann, Evgeniya Ilarionova, and Agim Ballvora</p> <p><b>Molecular Breeding Using a Major QTL for Fusarium Head Blight Resistance in Wheat</b> James A. Anderson, Shiaoman Chao, and Sixin Liu</p> <p><b>Genome-wide Approaches to Investigate and Improve Maize Response to Drought</b> Roberto Tuberosa, Silvio Salvi, Silvia Giuliani, Maria Corinna Sanguineti, Massimo Bellotti, Sergio Conti, and Pierangelo Landi</p>	<p>S-2</p> <p>S-4</p> <p>S-20</p> <p>S-32</p> <p>S-44</p> <p>S-60</p> <p>S-72</p> <p>S-88</p> <p>S-106</p> <p>S-112</p> <p>S-120</p>	<p><b>Molecular Breeding to Enhance Ethanol Production from Corn and Sorghum Stover</b> Wilfred Vermerris, Ana Saballos, Gebisa Ejeta, Nathan S. Mosier, Michael R. Ladisch, and Nicholas C. Carpita</p> <p><b>Molecular Markers in a Commercial Breeding Program</b> Sam R. Eathington, Theodore M. Crosbie, Marlin D. Edwards, Robert S. Reiter, and Jason K. Bull</p> <p><b>Backcross versus Forward Breeding in the Development of Transgenic Maize Hybrids: Theory and Practice</b> Rita H. Mumm</p> <p><b>Evaluating Potential Genetic Gains in Wheat Associated with Stress-Adaptive Trait Expression in Elite Genetic Resources under Drought and Heat Stress</b> Matthew P. Reynolds, Carolina Saint Pierre, Ibrahim Saad Sefian Mateo Vargas, and Anthony G. Condon</p> <p><b>The Use of Doubled Haploids in Recurrent Selection and Hybrid Development in Maize</b> A. Gallais and J. Bordes</p> <p><b>Physiological Basis of Successful Breeding Strategies for Maize Grain Yield</b> E. A. Lee and M. Tollenaar</p> <p><b>Breeding for <i>Striga</i> Resistance in Sorghum: Exploitation of an Intricate Host-Parasite Biology</b> Gebisa Ejeta</p> <p><b>Insights and Innovations from Wide Crosses: Examples from Canola and Tomato</b> Thomas C. Osborn, Chad Kramer, Elaine Graham, and Carl J. Braun</p> <p><b>Apomixis for Cultivar Development in Tropical Forage Grasses</b> John W. Miles</p> <p><b>Education and Preparation of Plant Breeders for Careers in Global Crop Improvement</b> Fredrick A. Bliss</p> <p><b>Assessment of the National Plant Breeding and Associated Biotechnology Capacity Around the World</b> Elcio P. Guimarães, Eric Kueneman, and Michela Paganini</p> <p><b>NOVA University: Plant Breeding Education in a University without Walls</b> Sven B. Andersen</p>	<p>S-142</p> <p>S-154</p> <p>S-164</p> <p>S-172</p> <p>S-190</p> <p>S-202</p> <p>S-216</p> <p>S-228</p> <p>S-238</p> <p>S-250</p> <p>S-262</p> <p>S-274</p>
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