JOURNAL NOTICE

SABEEHA S. MERCHANT, WILHELM GRUISSEM, AND DONALD R. ORT, EDS. 2020. Annual Review of Plant Biology, Volume 71. (ISBN-13: 978-0-8243-0671-7, hbk). Annual Reviews, Inc., 4139 El Camino Way, P.O. Box 10139, Palo Alto, California 94303, U.S.A. (Orders: annualreviews.org, science@annualreviews.org), \$118.00 US, 789 pp., 9¹/₂" × 7¹/₂".

ABOUT THIS JOURNAL—The *Annual Review of Plant Biology*, in publication since 1950, covers the significant developments in the field of plant biology, including biochemistry and biosynthesis, genetics, genomics and molecular biology, cell differentiation, tissue, organ and whole plant events, acclimation and adaptation, and methods and model organisms.

Contents of Volume 71:

- A Bridge to the World—Zhi-Hong Xu
- Dynamic Construction, Perception, and Remodeling of Plant Cell Walls—Charles T. Anderson and Joseph J. Kieber
- Functions of Anionic Lipids in Plants—Lise C. Noack and Yvon Jaillais
- Mechanisms of Cryptochrome-Mediated Photoresponses in Plants—Qin Wang and Chentao Lin
- Origin and Diversity of Plant Receptor-Like Kinases— Anne Dievart, Céline Gottin, Christophe Périn, Vincent Ranwez, Nathalie Chantret
- Redox Homeostasis and Signaling in a Higher-CO2 World—Christine H. Foyer and Graham Noctor
- Regulation and Evolution of C4 Photosynthesis—Urte Schlüter and Andreas P.M. Weber
- Starch: A Flexible, Adaptable Carbon Store Coupled to Plant Growth—Alison M. Smith and Samuel C. Zeeman
- The Small GTPase Superfamily in Plants: A Conserved Regulatory Module with Novel Functions—*Erik Nielsen*
- Guard Cell Metabolism and Stomatal Function—Tracy Lawson and Jack Matthews
- Modeling Plant Metabolism: From Network Reconstruction to Mechanistic Models—Teresa J. Clark, Longyun Guo, John Morgan, Jorg Schwender
- Evolution of Plant Hormone Response Pathways—Miguel A. Blázquez, David C. Nelson, Dolf Weijers
- Evolution of Plant NLRs: From Natural History to Precise Modifications—Janina Tamborski and Ksenia V. Krasileva
- Rapid Auxin-Mediated Cell Expansion—Minmin Du, Edgar P. Spalding, William M. Gray
- Salt Tolerance Mechanisms of Plants—Eva van Zelm, Yanxia Zhang, Christa Testerink
- Desiccation Tolerance: Avoiding Cellular Damage During Drying and Rehydration—*Melvin J. Oliver, Jill M. Farrant,* Henk W.M. Hilhorst, Sagadevan Mundree, Brett Williams, J. Derek Bewley

Prospects for Engineering Biophysical CO2 Concentrating Mechanisms into Land Plants to Enhance Yields— Jessica H. Hennacy and Martin C. Jonikas

Molecular Mechanisms of Pollination Biology—Róisín Fattorini and Beverley J. Glover

Reproductive Multitasking: The Female Gametophyte— Friederike Hater, Thomas Nakel, Rita Groß-Hardt

- Developmental Mechanisms of Fleshy Fruit Diversity in Rosaceae—Zhongchi Liu, Hong Ma, Sook Jung, Dorrie Main, Lei Guo
- Exploiting Broad-Spectrum Disease Resistance in Crops: From Molecular Dissection to Breeding—*Wei Li, Yiwen* Deng, Yuese Ning, Zuhua He, Guo-Liang Wang
- Ancient Plant Genomics in Archaeology, Herbaria, and the Environment—Logan Kistler, Vanessa C. Bieker, Michael D. Martin, Mikkel Winther Pedersen, Jazmín Ramos Madrigal, Nathan Wales
- Exploring Uncharted Territories of Plant Specialized Metabolism in the Postgenomic Era—Joseph R. Jacobowitz and Jing-Ke Weng
- Genetic Engineering and Editing of Plants: An Analysis of New and Persisting Questions—*Rebecca Mackelprang and Peggy G. Lemaux*
- Phenotyping: New Windows into the Plant for Breeders— Michelle Watt, Fabio Fiorani, Björn Usadel, Uwe Rascher, Onno Muller, Ulrich Schurr
- The Genomics of Cannabis and Its Close Relatives—I. Kovalchuk, M. Pellino, P. Rigault, R. van Velzen, J. Ebersbach, J. R. Ashnest, M. Mau, M. E. Schranz, J. Alcorn, R. B. Laprairie, J. K. McKay, C. Burbridge, D. Schneider, D. Vergara, N. C. Kane, T. F. Sharbel
- Sequencing and Analyzing the Transcriptomes of a Thousand Species Across the Tree of Life for Green Plants—Gane Ka-Shu Wong, Douglas E. Soltis, Jim Leebens-Mack, Norman J. Wickett, Michael S. Barker, Yves Van de Peer, Sean W. Graham, Michael Melkonian
- Engineering Synthetic Signaling in Plants—Alexander R. Leydon, Hardik P. Gala, Sarah Guiziou, Jennifer L. Nemhauser
- Novel Imaging Modalities Shedding Light on Plant Biology: Start Small and Grow Big—Natalie M. Clark, Lisa Van den Broeck, Marjorie Guichard, Adam Stager, Herbert G. Tanner, Ikram Blilou, Guido Grossmann, Anjali S. Iyer-Pascuzzi, Alexis Maizel, Erin E. Sparks, Rosangela Sozzani

J. Bot. Res. Inst. Texas 14(2): 480. 2020