



Third Edition

PLANT SYSTEMATICS

An essential text that provides a broad foundation of the approach, methods, research goals, evidence, and terminology of plant systematics

Michael G. Simpson

Professor Emeritus of Biology, San Diego State University – San Diego, CA, USA

Plant Systematics has made a substantial contribution to plant systematics courses at the upper-undergraduate and first year graduate level, with the first edition winning The Henry Allan Gleason Award of *The New York Botanical Garden*. Fully revised and updated, this third edition continues to provide that valuable introduction to the morphology, evolution, and classification of land plants. A foundational guide to the terminology, approach, methods, research goals and evidence of plant systematics, the book also presents the most recent understanding of the evolutionary relationships between plants, and practical information vital to the field.

This edition includes expanded treatments of families of flowering plants as well as new information on non-vascular plants, vascular plants, and seed plants. Also included are updated treatments of phylogenetic systematics, morphology, plant nomenclature, and molecular systematics. Clear, detailed cladograms, drawings, and color photographs continue to provide visual references and information.

About the Author

Michael G. Simpson has been a professor of Biology at San Diego State University since 1986. His area of expertise is plant systematics, dealing with the description, identification, naming and classification of plants with the overriding goal of inferring the pattern of evolutionary history (phylogeny). Dr. Simpson has taught courses in Principles of Organismal Biology, Plant Systematics, Taxonomy of California Plants, Economic Botany, Genetics and Evolution, and Seminar in Systematics and Evolution. Additionally, he serves as the Curator of the SDSU Herbarium. He currently focuses on plants with an American amphitropic disjunction. His field work in Chile and Argentina has been supported by the National Geographic Society.

Related Elsevier Titles

- Gonzalez, **Plant Transcription Factors**, 9780128008546
- Borem, **Biotechnology and Plant Breeding**, 9780124186729
- Agrios, **Plant Pathology**, 5th edition, 9780120445653
- Dickison, **Integrative Plant Anatomy**, 9780122151705



ACADEMIC PRESS

An imprint of Elsevier
elsevier.com/books-and-journals

ISBN 978-0-12-812628-8



9 780128 126288