Computational and high-throughput methods, such as genomics, proteomics, and transcriptomics, known collectively as "-omics," have been used to study plant biology for well over a decade now. As these technologies mature, plant and crop scientists have started using these methods to improve crop varieties. *Omics in Plant Breeding* provides a timely introduction to key omics-based methods and their application in plant breeding.

Omics in Plant Breeding is a practical and accessible overview of specific omics-based methods ranging from metabolomics to phenomics. Covering a single methodology within each chapter, this book provides thorough coverage that ensures a strong understanding of each methodology both in its application to, and improvement of, plant breeding.

Accessible to advanced students, researchers, and professionals, *Omics in Plant Breeding* will be an essential entry point into this innovative and exciting field.

- A valuable overview of high-throughput, genomics-based technologies and their applications to plant breeding
- Each chapter explores a single methodology, allowing for detailed and thorough coverage
- Coverage ranges from well-established methodologies, such as genomics and proteomics, to emerging technologies, including phenomics and physionomics

Aluízio Borém is a Professor of Plant Breeding at the University of Viçosa in Brazil.
Roberto Fritsche-Neto is a Professor of Genetics and Plant Breeding at the University of São Paulo in Brazil.

www.wiley.com/wiley-blackwell

WILEY Blackwell

Also available as an e-book

ISBN: 978-1-118-82099-5

9 781118 820995