Plant Genomics

Edited by: Hany A. El-Shemy
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The editor of this timely book has assembled a team of highly regarded scientists, over 40 contributors, to describe the latest, up-to-date research, theory and applications of this increasingly important area of science.

Renowned experts in the field have contributed chapters that describe and discuss some of the most topical aspects of plant genomics. The book is fully illustrated and chapters include comprehensive reference sections.

Essential reading for scientists involved in plant genomics and a recommended volume for everyone involved in plant science.

Chapter 1. A High-Resolution Melting Approach for Analyzing Allelic Expression Dynamics (Jiazheng Yuan, Muhammad Haroon, David Lightfoot, Yvan Pelletier, Qiang Liu and Xiu-Qing Li)
Chapter 3. The Role of Green Fluorescent Protein (GFP) in Transgenic Plants to Reduce Gene Silencing Phenomena (Hany A. El-Shemy, Mutasim M. Khalafalla and Masao Ishimoto)
Chapter 4. Antisense Phenotypes Reveal a Functional Expression of OsARF1, an Auxin Response Factor, in Transgenic Rice (Kotb A. Attia, Amr F. Abdelkhalik, Megahed H. Ammar, Chun Wei, Jinshui Yang, David A. Lightfoot, Wagih M. El-Sayed and Hany A. El-Shemy)
Chapter 5. An Account of Cloned Genes of Methyl-erythritol-4-phosphate Pathway of Isoprenoid Biosynthesis in Plants (Deepak Ganjewala, Shiv Kumar and Rajesh Luthra)
Chapter 6. Establishment of the Regeneration System for Vicia faba L. (Shimaa Bahgat, Omer A. Shabban, Osama El-Shihy, David A. Lightfoot and Hany A. El-Shemy)
Chapter 8. The Interactions of the Largest Subunit of RNA Polymerase II with Other Cellular Proteins: a Bioinformatic Approach (Abhijit Shukla, Aparna Natarajan, Sukesh Bhaumik, Hany A. El-Shemy and David Lightfoot)
Chapter 9. Locus Interactions Underlie Seed Yield In Soybeans Resistant to Heterodera glycines (U.B. Karangula, M.A. Kassem, L. Gupta, H.A. El-Shemy and D.A. Lightfoot)
Chapter 10. Different Responses of Two Genes Associated with Disease Resistance Loci in Maize (Zea mays L.) to 3-allyloxy-1,2-benzothiazole 1,1-dioxide (Jiazheng Yuan, Jennifer Tedman, Liakat Ali, Jie Liu, Jeff Taylor, David Lightfoot, Michiaki Iwata and K. Peter Pauls)

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