# Contents

1. **Genetic Erosion: Context Is Key** ........................................ 1  
   Deborah Rogers and Patrick McGuire  

2. **Indicators of Genetic Diversity, Genetic Erosion, and Genetic Vulnerability for Plant Genetic Resources** .......... 25  
   Anthony H.D. Brown and Toby Hodgkin  

3. **Genetic Diversity and Modern Plant Breeding** ........................... 55  
   Stephen Smith, David Bubeck, Barry Nelson, Jason Stanek and Justin Gerke  

   Yong-Bi Fu and Yi-Bo Dong  

5. **Molecular Marker Based Assessment of Genetic Diversity in Rye** ........................................ 105  
   Hanna Bolibok-Bragoszewska and Monika Rakoczys-Trojanowska  

6. **Using Molecular Techniques to Dissect Plant Genetic Diversity** ..... 125  
   Linda Mondini and Mario A. Pagnotta  

7. **Erosion and Prevention of Crop Genetic Diversity Landraces of Georgia (South Caucasus)** ..................................... 159  
   Maia Akhalkatsi  

8. **Genetic Diversity and Heavy Metal Stress in Plants** .................... 189  
   Shilpi Srivastava and Atul Bhargava  

9. **Diversity and Erosion in Genetic Resources of Spices** ............... 225  
   K. Nirmal Babu, E.V.D. Sastry, K.V. Saji, Minoo Divakaran, H.J. Akshitha, S. Aarthi, A. Sharon, P.N. Ravindran and K.V. Peter  

10. **Genetic Diversity and Erosion—A Global Perspective** ............... 263  
    Imke Thormann and Johannes M.M. Engels
11 Diversity Arrays Technology (DArT) Markers for Genetic Diversity ........................................... 295
   Dariusz Grzebelus

12 Exploring the Potential of Genetic Diversity via Proteomics: Past, Present, and Future Perspectives for Banana .................... 311
   S. Carpentier
Genetic Diversity and Erosion in Plants
Indicators and Prevention
Ahuja, M.R.; Jain, S.M. (Eds.)
2015, X, 323 p., Hardcover
ISBN: 978-3-319-25635-1