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SEQUENCING DATA; CHAPTER 11: MAIZE (Zea Mays L.) GENOME DIVERSITY AS REVEALED BY RNA SEQUENCING; CHAPTER 12: MOLECULAR MECHANISMS OF EPIGENETIC VARIATION IN PLANTS CHAPTER 13: METAGENOMICS: A GUIDE FROM SAMPLING TO DATA ANALYSISPART III: SINGLE NUCLEOTIDE POLYMORPHISM IS THE IDEAL MARKER; CHAPTER 14: SNP MARKERS AND THEIR IMPACT ON PLANT BREEDING; CHAPTER 15: GENOTYPING-BY-SEQUENCING IN PLANTS; AUTHOR NOTES; Back Cover

Sommario/riassunto

Advances in information technology and next generation sequencing have propelled the use of bioinformatics in agriculture, especially in the area of crop improvement. An extremely large amount of genomics data is available from plants and animals due to tremendous improvements in the field. This book acquaints readers with state-of-the-art sequencing technologies, recent developments in computing algorithms, and certain biological perspectives that influence development of bioinformatics tools by giving specific examples from model plant species. The challenge is now to make sense and use o