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## Plant Biotechnology and Genetics: Principles, Techniques and Applications

By -

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Summary: Preface.Foreword to Plant Biotechnology and Genetics.Contributors.1. Plant Agriculture: The Impact of Biotechnology (Graham Brookes).1.0 Chapter Summary and Objectives.1.0.1 Summary.1.0.2 Discussion Questions.1.1 Introduction.1.2 Biotechnology Crops Plantings.1.3 Why Farmers Use Biotech Crops.1.3.1 Herbicide-Tolerant Crops.1.3.2 Insect-Resistant Crops.1.3.3 Conclusion.1.4 How the Adoption of Plant Biotechnology Has Impacted the Environment.1.4.1 Environmental Impacts from Changes in Insecticide and Herbicide Use.1.4.2 Impact on Greenhouse Gas (GHG) Emissions.1.5 Conclusions.References.2. Mendelian Genetics and Plant Reproduction (Matthew D. Halfhill and Suzanne I. Warwick).2.0 Chapter Summary and Objectives.2.0.1 Summary.2.0.2 Discussion Questions.2.1 Genetics Overview.2.2 Mendelian Genetics.2.2.1 Law of Segregation.2.2.2 Law of Independent Assortment.2.3 Mitosis and Meiosis.2.3.1 Mitosis.2.3.2 Meiosis.2.3.3 Recombination.2.3.4 Cytogenetic Analysis.2.4 Plant Reproductive Biology.2.4.1 History of Research.2.4.2 Mating Systems.2.4.2.1 Sexual Reproduction.2.4.2.2 Asexual Reproduction.2.4.2.3 Mating Systems Summary.2.4.3 Hybridization and Polyploidy.2.5 Conclusion.References.3. Plant Breeding (Nicholas A. Tinker).3.0 Chapter Summary and Objectives.3.0.1 Summary.3.0.2 Discussion Questions.3.1 Introduction.3.2 Central Concepts in Plant Breeding.3.2.1 Simple versus Complex Inheritance.3.2.2

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