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Is a Weed? -- Definitions -- Intermediate States -- Crop-Weed Complexes -- Some Weed Adaptations -- Weeds and History -- Conclusions -- References -- Chapter 5 Classification of Cultivated Plants -- Botanical Descriptions and Names -- Problems of Formal Taxonomy -- The Gene Pool System -- Species -- Subspecies -- Evolutionary Implications -- Conclusions -- References -- Chapter 6 The Dynamics of Domestication -- Domestication of Seed Crops -- Cereals -- Other Seed Crops -- Domestication of Vegetatively Reproduced Crops -- Vegetative Propagation -- Grafting -- Ornamentals -- Summary -- Conclusions -- References -- Chapter 7 Space, Time, and Variation. Kinds of Patterns of Variation -- Endemic -- Semiendemic -- Monocentric -- Oligocentric -- Noncentric -- Noncentric Crops -- Diffuse Origins -- Microcenters -- Landrace Populations -- Implications for Plant Breeding -- Conclusions -- References -- Chapter 8 The Near East -- Introduction -- Archaeological Prelude -- A Note About Dating Archaeological Sites -- Archaeological Sequence of Village Sites -- Spread of Agriculture Out of the Nuclear Area -- Recorded History -- Conclusions -- References -- Chapter 9 Indigenous African Agriculture -- Introduction -- Archaeological Prelude -- A Savanna Complex -- Crop Competition and Distribution -- Recorded History -- Decrue Agriculture -- Conclusions -- References -- Chapter 10 The Far East -- Archaeological Prelude -- Recorded History -- Far Eastern Crops -- Northern China -- Eastern China Coastal Plain -- Southern China -- Asia and South Pacific -- The Millets -- Soybean -- Rice -- Sugarcane -- Bananas and Plantains -- Coconut -- Orange -- Mango -- Yams -- Hunter-Gatherers of Japan -- Plant Domestication in India -- Conclusions -- References -- Chapter 11 The Americas -- Archaeology -- The Crops -- Cereals -- Beans -- Tomato -- Squash -- Sunflower -- Peppers -- Peanut -- Root and Tuber Crops -- Sweet Potato -- Cotton -- Tobacco -- Rubber -- Fruits, Nuts, and Ornamentals -- Forage Legumes -- Indigenous Americans as Biochemists -- Conclusions -- References -- Chapter 12 Epilogue: Who's in Charge Here? -- References -- EULA.

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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; List of Contributors; Preface; Acknowledgements; 1 Biomimetic Polysaccharides and Derivatives for Cartilage Tissue Regeneration; 1.1 Introduction; 1.2 Strategies for Cartilage Tissue Engineering; 1.3 Designing Scaffold for Cartilage Tissue Engineering; 1.4 Natural Polysaccharides for Cartilage Tissue Engineering; 1.4.1 Chitin and Chitosan (CS)-based Materials; 1.4.2 HA-based Materials; 1.4.3 Alginate-based Materials; 1.4.4 Starch-based Materials; 1.4.5 Cellulose-based Materials; 1.5 Conclusions and Remarks on Prospects; References 2 Biomimetic Synthesis of Self-Assembled Mineralized Collagen-Based

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Sommario/riassunto

This book compiles all aspects of biomimetics from fundamental principles to current technological advances and their future trends in the development of nanoscale biomaterials and tissue engineering. The scope of this book is principally confined to biologically-inspired design of materials and systems for the development of next generation nanobiomaterials and tissue engineering. The book addresses the state-of-the-art of research progress in the applications of the principles, processes, and techniques of biomimetics. The prospective outcomes of current advancements and challenges in bio
