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5: Breeding Barley for Resistance to Fusarium Head Blight and Mycotoxin Accumulation I. INTRODUCTION; II. FUSARIUM SPECIES; III. FUSARIUM TOXINS; IV. LOSSES IN YIELD AND QUALITY; V. SOURCES OF GENETIC RESISTANCE; VI. TRAITS ASSOCIATED WITH FHB RESISTANCE; VII. BREEDING STRATEGIES; VIII. MUTATION AND IN VITRO SELECTION; IX. GENETIC TRANSFORMATION; X. CONCLUSIONS AND PROSPECTS; LITERATURE CITED; 6: Using Genomics to Exploit Grain Legume Biodiversity in Crop Improvement; I. INTRODUCTION; II. AVAILABLE GENETIC RESOURCES OF KEY LEGUME CROPS III. MANAGEMENT AND UTILIZATION OF LEGUME GENETIC RESOURCES IV. IMPACT OF GENETIC RESOURCES IN CONVENTIONAL LEGUME BREEDING; V. MOLECULAR-ENHANCED STRATEGIES FOR MANIPULATING NOVEL GENETIC VARIATION FOR LEGUME BREEDING; VI. ADVANCED APPLICATIONS IN LEGUME MOLECULAR BREEDING; VII. CONCLUSIONS AND FUTURE PROSPECTS; ACKNOWLEDGMENTS; LITERATURE CITED; Subject Index; Cumulative Subject Index; Cumulative Contributor Index

Sommario/riassunto

This helpful book presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods. Understanding and preserving crop genetic resources is vital to the security of food systems worldwide. The emphasis of the series is on methodology, a fundamental understanding of crop genetics, and applications to major crops.