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Nota di contenuto	OOMYCETE GENETICS AND GENOMICS; CONTENTS; FOREWORD; PREFACE; CONTRIBUTORS; Chapter 1 The Evolutionary Phylogeny of Oomycetes-Insights Gained from Studies of Holocarpic Parasites of Algae and Invertebrates; Chapter 2 Ecology of Lower Oomycetes; Chapter 3 Taxonomy and Phylogeny of the Downy Mildews (Peronosporaceae); Chapter 4 An Introduction to the White Blister Rusts (Albuginales); Chapter 5 The Asexual Life Cycle; Chapter 6 Sexual Reproduction in Oomycetes: Biology, Diversity, and Contributions to Fitness; Chapter 7 Population Genetics and Population Diversity of <i>Phytophthora infestans</i> Chapter 8 <i>Phytophthora capsici</i> : Sex, Selection, and the Wealth of Variation Chapter 9 Evolution and Genetics of the Invasive Sudden Oak Death Pathogen <i>Phytophthora ramorum</i> ; Chapter 10 <i>Phytophthora sojae</i> : Diversity Among and Within Populations; Chapter 11 <i>Pythium</i> Genetics; Chapter 12 <i>Bremia lactucae</i> and Lettuce Downy Mildew; Chapter 13 Downy Mildew of <i>Arabidopsis</i> Caused by <i>Hyaloperonospora arabidopsidis</i> (Formerly <i>Hyaloperonospora parasitica</i>); Chapter 14 Interactions Between <i>Phytophthora infestans</i> and <i>Solanum</i> ; Chapter 15

Phytophthora sojae and Soybean

Chapter 16 Phytophthora brassicae As a Pathogen of

ArabidopsisChapter 17 Aphanomyces euteiches and Legumes; Chapter

18 Effectors; Chapter 19 Pythium insidiosum and Mammalian Hosts;

Chapter 20 Saprolegnia-Fish Interactions; Chapter 21 Aphanomyces

astaci and Crustaceans; Chapter 22 Progress and Challenges in

Oomycete Transformation; Chapter 23 In Planta Expression Systems;

Chapter 24 Gene Expression Profiling; Chapter 25 Mechanisms and

Application of Gene Silencing in Oomycetes; Chapter 26 Global

Proteomics and Phytophthora; Chapter 27 Strategy and tactics for

genome sequencing; INDEX

Sommario/riassunto

This book brings together the knowledge from and tools for genetic and genomic research into oomycetes to help solve the problems this pathogen poses to crops and animals. Armed with the information presented here, researchers can use oomycete data to solve practical problems and gain insight into future areas of interest. Key Features: Offers an up-to-date coverage of research into oomycetes - which has advanced with biochemical and molecular analyses in recent yearsHelps researchers use oomycete data to solve practical problems, like damage to crop and an
