

# Contents

<b>Roles of Plant Hormones in Plant Resistance and Susceptibility to Pathogens</b> .....	1
Lionel Navarro, Rajendra Bari, Alexandre Seilaniantz, Adnane Nemri, and Jonathan D.G. Jones	
<b>Canine Genetics Facilitates Understanding of Human Biology</b> .....	11
Elaine A. Ostrander, Heidi G. Parker, and Nathan B. Sutter	
<b><i>Xanthomonas oryzae</i> pv. <i>oryzae</i> AvrXA21 Activity Is Dependent on a Type One Secretion System, Is Regulated by a Two-Component Regulatory System that Responds to Cell Population Density, and Is Conserved in Other <i>Xanthomonas</i> spp.</b> .....	25
Sang-Won Lee, Sang-Wook Han, Laura E. Bartley, and Pamela C. Ronald	
<b>Unraveling the Genetic Mysteries of the Cat: New Discoveries in Feline-Inherited Diseases and Traits</b> .....	41
Leslie A. Lyons	
<b>Variation in Chicken Gene Structure and Expression Associated with Food-Safety Pathogen Resistance: Integrated Approaches to <i>Salmonella</i> Resistance</b> .....	57
S.J. Lamont	
<b>Functional Genomics and Bioinformatics of the <i>Phytophthora sojae</i> Soybean Interaction</b> .....	67
Brett M. Tyler, Rays H.Y. Jiang, Lecong Zhou, Sucheta Tripathy, Daolong Dou, Trudy Torto-Alalibo, Hua Li, Yongcai Mao, Bing Liu, Miguel Vega-Sanchez, Santiago X. Mideros, Regina Hanlon, Brian M. Smith, Konstantinos Krampis, Keying Ye, Steven St. Martin, Anne E. Dorrance, Ina Hoeschele, and M.A. Saghai Maroof	

<b>Canine SINEs and Their Effects on Phenotypes of the Domestic Dog</b> . . . . .	79
Leigh Anne Clark, Jacquelyn M. Wahl, Christine A. Rees, George M. Strain, Edward J. Cargill, Sharon L. Vanderlip, and Keith E. Murphy	
<b>Ovine Disease Resistance: Integrating Comparative and Functional Genomics Approaches in a Genome Information-Poor Species</b> . . . . .	89
H.W. Raadsma, K.J. Fullard, N.M. Kingsford, E.T. Margawati, E. Estuningsih, S. Widjayanti, Subandriyo, N. Clairoux, T.W. Spithill, and D. Piedrafita	
<b>Integrating Genomics to Understand the Marek's Disease Virus – Chicken Host–Pathogen Interaction</b> . . . . .	115
Hans H. Cheng	
<b>Combining Genomic Tools to Dissect Multifactorial Virulence in <i>Pseudomonas aeruginosa</i></b> . . . . .	127
Daniel G. Lee, Jonathan M. Urbach, Gang Wu, Nicole T. Liberati, Rhonda L. Feinbaum, and Frederick M. Ausubel	
<b>Genetic Dissection of the Interaction Between the Plant Pathogen <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> and Its Host Plants</b> . . . . .	151
Ulla Bonas, Doreen Gürlebeck, Daniela Büttner, Monique Egler, Simone Hahn, Sabine Kay, Antje Krüger, Christian Lorenz, Robert Szczesny, and Frank Thieme	
<b>Structure and Function of RXLR Effectors of Plant Pathogenic Oomycetes</b> . . . . .	161
William Morgan, Jorunn Bos, Catherine Bruce, Minkyong Lee, Hsin-Yen Liu, Sang-Keun Oh, Jing Song, Joe Win, Carolyn Young, and Sophien Kamoun	
<b>The Biotrophic Phase of <i>Ustilago maydis</i>: Novel Determinants for Compatibility</b> . . . . .	173
Thomas Brefort, Kerstin Schipper, Gunther Döhlemann, and Regine Kahmann	
<b>Virulence Evolution in Malaria</b> . . . . .	183
M.J. Mackinnon	
<b>The Ins and Outs of Host Recognition of <i>Magnaporthe oryzae</i></b> . . . . .	199
Sally A. Leong	
<b>Index</b> . . . . .	217