

Contents

Utility of Insects for Studying Human Pathogens and Evaluating New Antimicrobial Agents	1
Yan Wang, De-Dong Li, Yuan-Ying Jiang and Eleftherios Mylonakis	
<i>Galleria Mellonella</i> as a Model Host to Study Gut Microbe Homeostasis and Brain Infection by the Human Pathogen <i>Listeria Monocytogenes</i>	27
Krishnendu Mukherjee, Ramya Raju, Rainer Fischer and Andreas Vilcinskis	
<i>Drosophila</i> as a Model to Study Metabolic Disorders	41
Julia Hoffmann, Renja Romey, Christine Fink and Thomas Roeder	
The Fruit Fly <i>Drosophila melanogaster</i> as a Model for Aging Research	63
Annely Brandt and Andreas Vilcinskis	
<i>Drosophila</i> and the Hallmarks of Cancer	79
Theodoulakis Christofi and Yiorgos Apidianakis	
The Red Flour Beetle <i>Tribolium castaneum</i> as a Model to Monitor Food Safety and Functionality	111
Stefanie Grünwald, Iris V. Adam, Ana-Maria Gurmai, Ludmila Bauer, Michael Boll and Uwe Wenzel	
Identification and Bioanalysis of Natural Products from Insect Symbionts and Pathogens	123
Alexander O. Brachmann and Helge B. Bode	
Antiparasitic Peptides	157
Jette Pretzel, Franziska Mohring, Stefan Rahlfs and Katja Becker	
Index	193

Yellow Biotechnology I

Insect Biotechnologie in Drug Discovery and Preclinical
Research

Vilcinskas, A. (Ed.)

2013, VII, 198 p. 31 illus., 11 illus. in color., Hardcover

ISBN: 978-3-642-39862-9