
Contents

Preface by the Editor	xi
<i>Matan Shelomi</i>	
1. Harnessing Transcriptomics to Study Insect Biology	1
<i>Kyle M. Lewald, Joanna C. Chiu</i>	
2. From Reads to Genes	24
<i>Chengran Zhou, Guanliang Meng, Shanlin Liu</i>	
3. Transcriptomics in Pest Management Research	45
<i>Antonino Malacrino</i>	
4. Aphid Transcriptomics – Past, Present and Future	60
<i>Sampurna Sattar, Gary A. Thompson</i>	
5. Transcriptomic Research on Honey Bee-Associated Pathogens	83
<i>James P. Tauber</i>	
6. Cytochrome P450s in the Era of Transcriptomics	99
<i>Bernarda Calla, May R. Berenbaum</i>	
7. Whole-Body Transcriptome of the Douglas-Fir Seed Chalcid, <i>Megastigmus spermotrophus</i>, Reveals Ecological and Evolutionary Insights	113
<i>Amber R. Paulson, Jürgen Ehrling, Patrick von Aderkas, Steven J. Perlman.</i>	
8. Differential Transcriptome Profiling for Identification of Cellulose Degrading Enzymes in <i>Ctenolepisma longicaudata</i>	136
<i>Ratnasri Pothula, Brian R. Johnson, William E. Klingeman, Matthew Huff, Margaret E. Staton, Juan Luis Jurat-Fuentes</i>	

9. Using RNA-seq to Help Identify Functions in Unknown Organs	164
<i>Matan Shelomi</i>	
10. A Practical Guide for Functional Transcriptomics: A Case Study in RNA Interference and qPCR to Understand the Explosive Chemistry of <i>Brachinus Bombardier Beetles</i> (Coleoptera: Carabidae)	181
<i>Aman S. Gill, Melanie Gee, Kipling Will</i>	
Index	195