
Contents

<i>Preface to the Series</i>	<i>vii</i>
<i>Preface</i>	<i>ix</i>
<i>Contributors</i>	<i>xiii</i>
1. Eyeblick Conditioning in Animal Models and Humans <i>Kevin L. Brown and Diana S. Woodruff-Pak</i>	1
2. Anatomical, Physiological, and Behavioral Analysis of Rodent Vision <i>Brett G. Jeffrey, Trevor J. McGill, Tammie L. Haley, Catherine W. Morgans, and Robert M. Duvoisin</i>	29
3. Correlates and Analysis of Motor Function in Humans and Animal Models of Parkinson's Disease <i>Alexandra Y. Schang, Beth E. Fisher, Natalie R. Sashkin, Cindy Moore, Lisa B. Dirling, Giselle M. Petzinger, Michael W. Jakowec, and Charles K. Meshul</i>	55
4. Spatial Learning and Memory in Animal Models and Humans <i>Gwendolen E. Haley and Jacob Raber</i>	91
5. Fear Conditioning in Rodents and Humans <i>Mohammed R. Milad, Sarah Igoe, and Scott P. Orr</i>	111
6. Conditioned Place Preference in Rodents and Humans <i>Devin Mueller and Harriet de Wit</i>	133
7. Social Interactions in the Clinic and the Cage: Toward a More Valid Mouse Model of Autism <i>Garet P. Lahvis and Lois M. Black</i>	153
8. The Experimental Manipulation of Uncertainty <i>Dominik R. Bach, Christopher R. Pryce, and Erich Seifritz</i>	193
9. Circadian Variation in the Physiology and Behavior of Humans and Nonhuman Primates <i>Henryk F. Urbanski</i>	217
10. Traumatic Brain Injury in Animal Models and Humans <i>Hita Adwanikar, Linda Noble-Haesslein, and Harvey S. Levin</i>	237
11. Behavioral Sensitization to Addictive Drugs: Clinical Relevance and Methodological Aspects <i>Tamara J. Phillips, Raúl Pastor, Angela C. Scibelli, Cheryl Reed, and Ernesto Tarragón</i>	267

12. Evaluating Behavioral Outcomes from Ischemic
Brain Injury 307
*Paco S. Herson, Julie Palmateer, Patricia D. Hurn,
and A. Courtney DeVries*

13. A Comparative Analysis of Cellular Morphological Differentiation Within
the Cerebral Cortex Using Diffusion Tensor Imaging 329
Lindsey A. Leigland and Christopher D. Kroenke

Index 353



<http://www.springer.com/978-1-60761-882-9>

Animal Models of Behavioral Analysis

Raber, J. (Ed.)

2011, XV, 354 p. 61 illus., Hardcover

ISBN: 978-1-60761-882-9

A product of Humana Press