

Contents

About the Editors	xi
About the Contributors	xiii
Introduction: The Science of Addiction Psychopharmacology <i>James MacKillop & Harriet de Wit</i>	1
Part I Distal Determinants of Drug Use	5
1 Developmental Factors in Addiction: Methodological Considerations <i>Laurie Chassin, Clark Presson, Young Il-Cho, Matthew Lee, and Jonathan Macy</i>	7
2 Executive Dysfunction in Addiction <i>David P. Jarmolowicz, E. Terry Mueller, Mikhail N. Koffarnus, Anne E. Carter, Kirstin M. Gatchalian, and Warren K. Bickel</i>	27
3 The Roles of Race and Sex in Addiction Research <i>Ezemenari M. Obasi, Jaime L. Richards, Delishia M. Pittman, Jokae Ingram, Marian R. Beasley, and Kristen L. Ratliff</i>	63
4 Understanding Psychiatric Comorbidities and Addictions <i>James C. (Jim) Anthony</i>	83
5 Personality and Addiction: A Critical Review of Assessment Approaches <i>Joshua D. Miller and Donald R. Lynam</i>	111
6 Behavioral Inhibition and Addiction <i>Mark T. Fillmore and Jessica Weaver</i>	135
7 Delay Discounting and Drug Abuse: Empirical, Conceptual, and Methodological Considerations <i>Jeffrey S. Stein and Gregory J. Madden</i>	165
8 Assessment of Risk Taking in Addiction Research <i>Jennifer Dahne, Jessica M. Richards, Monique Ernst, Laura MacPherson, and Carl W. Lejuez</i>	209

9	Distress Tolerance <i>Jessica F. Magidson, Bina Ali, Alyson Listhaus, and Stacey B. Daughters</i>	233
Part II Proximal Determinants of Drug Use		257
10	Measuring Direct Effects of Drugs of Abuse in Humans <i>Harriet de Wit</i>	259
11	The Role of Aftereffects and Withdrawal in Addiction <i>Jon D. Kassel, Jennifer C. Veilleux, Adrienne J. Heinz, Ashley Braun, and Stephanie Weber</i>	281
12	Drug Self-Administration Paradigms: Methods for Quantifying Motivation in Experimental Research <i>James MacKillop and Cara Murphy</i>	315
13	The Assessment of Craving in Addiction Research <i>Lara A. Ray, Kelly E. Courtney, Guadalupe Bacio, and James MacKillop</i>	345
14	The Cue Reactivity Paradigm in Addiction Research <i>Elizabeth K. Reynolds and Peter M. Monti</i>	381
15	Stress and Affective Inductions in Addiction Research <i>Suzanne Thomas and Amy Bacon</i>	411
16	Substance Priming <i>Abigail K. Rose</i>	435
17	Understanding the Role of Substance Expectancies in Addiction <i>Jane Metrik and Damaris J. Rohsenow</i>	459
18	Implicit Cognition <i>Paul Christiansen and Matt Field</i>	489
19	Experimental Methods for Understanding the Role of Social Context in Drug Addiction <i>Matthew G. Kirkpatrick and Margaret C. Wardle</i>	515
20	Ecological Momentary Assessment <i>Thomas R. Kirchner and Saul Shiffman</i>	541
Part III Insights from Cognitive Science		567
21	Startle Reflex and Psychophysiology <i>Jeffrey C. Meehan and Robert Miranda, Jr</i>	569
22	Using Quantitative EEG and EEG Tomography to Understand Drug Abuse: A Quantum Leap in New Methods and Benefits <i>David G. Gilbert and Herman A. Diggs</i>	599
23	Functional Magnetic Resonance Imaging in Addiction Research <i>Lawrence H. Sweet, Michael T. Amlung, and James MacKillop</i>	643
24	The Role of Positron Emission Imaging (PET) in Understanding Addiction <i>Dean F. Wong, James Robert Brašić, Emily Gean, and Ayon Nandi</i>	677

25	Application of Magnetic Resonance Spectroscopic Imaging to Addiction Research <i>Sujung Yoon, In Kyoon Lyoo, and Perry F. Renshaw</i>	707
	Conclusions: Consilience as the Future of Addiction Psychopharmacology <i>James MacKillop & Harriet de Wit</i>	751
	Index	755
	Plate section between 688 and 689	