

# Contents

List of Figures	page vii
List of Tables	viii
List of Contributors	ix
Foreword by Wilson M. Compton and Carlos Blanco	xii
Preface	xv
Acknowledgements	xviii

## Part I Concepts of Addiction

1 Appetitive Needs and Addiction	3
Steve Sussman and Sheila Pakdaman	
2 Behavioral Economics and Addictive Disorders	12
David P. Jarmolowicz and Tadd D. Schneider	
3 Sensitization of Incentive Salience and the Transition to Addiction	23
Shelley M. Warlow, Hannah M. Baumgartner, Charlotte M. Freeland*, Erin E. Naffziger*, Jeffrey J. Olney*, Kent C. Berridge, and Mike J. F. Robinson, *authorship shared equally	
4 Philosophical Issues in the Addictions	38
Shane N. Glackin	

## Part II Clinical and Research Methods in the Addictions

5 Human Neurobiological Approaches to Hedonically Motivated Behaviors	53
Kyle S. Burger, Grace E. Shearrer, and Jennifer R. Sadler	
6 Human Laboratory Paradigms in Addictions Research	62
Vanessa Morris, Fiza Arshad, Iris M. Balodis, Derek D. Reed, James MacKillop, and Michael Amlung	
7 Behavioral Economic Considerations of Novel Addictions and Nonaddictive Behavior: Research and Analytic Methods	73
Derek D. Reed, Gideon P. Naudé, Brett W. Gelino, and Michael Amlung	
8 Substance and Behavioral Addictions Assessment Instruments	87
Timothy J. Grigsby	
9 Qualitative Approaches to the Study of Substance and Behavioral Addictions	106
Kelsey A. Simpson and Ricky N. Bluthenthal	

## Part III Levels of Analysis and Etiology

10 Neurobiology of Substance Addictions	121
Nina C. Christie and Antoine Bechara	
11 Neurobiological Foundations of Behavioral Addictions	136
Anthony G. Vaccaro and Marc N. Potenza	
12 Multiple Memory Systems, Addiction, and Health Habits: New Routes for Translational Science	152
Alan W. Stacy, James Russell Pike, and Anna Yu Lee	
13 The Role of Culture in Addiction	171
Beth R. Hoffman and Jennifer B. Unger	
14 The Physical and Social Environments as Determinants of Health: Implications for Substance and Behavioral Addictions	182
Robert W. Strack, Muhsin Michael Orsini, D. Rose Ewald, and Lawrence M. Scheier	

## Part IV Prevention and Treatment

15 Adolescent Drug Misuse Prevention: Challenges in School-Based Programming	201
Lawrence M. Scheier	
16 Treatment of Alcohol, Tobacco, and Other Drug (ATOD) Misuse	215
Steve Sussman and Maria Bolshakova*, *authorship shared equally	
17 Prevention and Treatment of “Food Addiction”	230
Caroline Davis and Ashley E. Mason	
18 The Prevention and Treatment of Gambling Disorders: Some Art, Some Science	241
Jeffrey L. Derevensky	
19 Prevention and Treatment of Sex Addiction	254
Rory C. Reid, Joshua B. Grubbs, and Shane W. Kraus	
20 Passionate Love Addiction: An Evolutionary Survival Mechanism That Can Go Terribly Wrong	262
Maria Bolshakova, Helen Fisher, Henri-Jean Aubin, and Steve Sussman	
21 Prevention and Treatment of Compulsive Buying Disorder	271
Artur Galimov and Donald W. Black	



22	Prevention and Treatment of Work Addiction Cristina Quinones and Mark D. Griffiths	280	27	Feedback Models for Gambling Control: The Use and Efficacy of Online Responsible Gambling Tools Mark D. Griffiths	333
23	Gaming Disorder and Its Treatment Mark D. Griffiths, Daria J. Kuss, and Halley M. Pontes	288	28	Food versus Eating Addictions Erica M. Schulte, Emma. T. Schiestl, and Ashley N. Gearhardt	340
<b>Part V Ongoing and Future Research Directions</b>			29	Measurement, Prevention, and Treatment of Exercise Addiction Heather A. Hausenblas, Derek T. Y. Mann, and Danielle Symons Downs	352
24	Precision Behavioral Management (PBM): A Novel Genetically Guided Therapy to Combat Reward Deficiency Syndrome (RDS) Relevant to the Opiate Crisis Kenneth Blum, Alphonse Kenison Roy III, Arwen Podesta, Edward J. Modestino, Bruce Steinberg, Marjorie C. Gondré-Lewis, David Baron, Panayotis K. Thanos, Lisa Lott, Sampada Badgaiyan, Jessica Valdez Ponce, Brent Boyett, David Siwicki, Mark Moran, Drew Edwards, Thomas McLaughlin, Eric R. Braverman, Thomas A. Simpatico, Mary Hauser, Bernard William Downs, and Rajendra D. Badgaiyan	297	30	Tanning as an Addiction: The State of the Research and Implications for Intervention Kimberly A. Miller and Darren Mays	362
25	Novel Psychoactive Substances: A New Challenge for Prevention and Treatment Máté Kapitány-Fövény, Ornella Corazza, Shanna Marrinan, and Zsolt Demetrovics	307	31	Considering the Overlap and Nonoverlap of Compulsivity, Impulsivity, and Addiction Austin W. Blum and Jon E. Grant	373
26	Impaired Physicians A. Benjamin Srivastava and Mark S. Gold	326	32	Anhedonia in Addictive Behaviors Walter G. Dyer, Adam M. Leventhal, Nicholas I. Goldenson, and Mariel S. Bello	386
			33	Mindfulness-Based Interventions Applied to Addiction Treatments Afton Kechter and David S. Black	409
			34	American Legal Issues in Addiction Treatment and Research Daniel H. Willick	418
			<i>Index</i>		426