CONTENTS

Genetics and Molecular Biology
High-Throughput Proteomics for Alcohol Research
Lisa A. Neuhold, Q. Max Guo, Joseph Alper, and Jose M. Velazquez .................. 203
Serotonin 5-HT2 Receptors and Alcohol: Reward, Withdrawal and Discrimination
Kari J. Buck, Matthew T. Reilly, Laura M. Rogers, Ken Sziliga, Kathleen Grant, and Mark S. Brodie ..... 211

Pharmacology and Cell Metabolism
Ethanol Effects on Cell Signaling Mechanisms
A. Leslie Morrow, Karima Ferranti-Kle, Margaret I. Davis, Jennifer A. Shumilla, Sandeep Kumar, Regina Maldve, and Subhash C. Pandey .................................. 217
The Future of Proteomics in the Study of Alcoholism
Chinnaswamy Kasinathan, Kent Vrana, Laura Beretta, Paul Thomas, Randy Gooch, Travis Worst, Stephen Walker, Aaron Xu, Peter Pierre, Heather Green, Kathleen Grant, and Paul Manowitz .......... 228

Neurobiological, Behavioral, and Environmental Relations to Drinking
Consequences of Multiple Withdrawals From Alcohol
Biological and Behavioral Markers of Alcohol Sensitivity
Kim Fromme, Harriet de Wit, Kent E. Hutchison, Lara Ray, William R. Corbin, Travis A.R. Cook, Tamara L. Wall, and David Goldman .................................................. 247
Serotonin-3 Receptors in the Actions of Alcohol, Alcohol Reinforcement, and Alcoholism
William J. McBride, David M. Lovinger, Tina Machu, Richard J. Thielien, Zachary A. Rodd, James M. Murphy, John D. Roache, and Bankole A. Johnson ........................................ 257
Integrative Neurobiology of the Alcohol Withdrawal Syndrome—From Anxiety to Seizures
Carl L. Faingold, Darin J. Knapp, Julia A. Chester, and Larry P. Gonzalez .................. 268
Building Bridges: The Transdisciplinary Study of Craving From the Animal Laboratory to the Lamppost
Peter M. Monti, Jennifer Tidey, Cristine L. Czachowski, Kathleen A. Grant, Damaris J. Rohsenow, Michael Sayette, Natalie Maners, and Peter Pierre ........................................ 279
Overlapping Peptide Control of Alcohol Self-Administration and Feeding
Todd E. Thiele, Robert B. Stewart, Nancy E. Badia-Elder, Nori Geary, Maurizio Massi, Sarah F. Leibowitz, Bartley G. Hoebel, and Mark Egli ......................................................... 288

continued on page ii
CONTENTS  (continued from page i)

Diagnosis and Treatment
Development of Novel Pharmacotherapies for the Treatment of Alcohol Dependence: Focus on Antiepileptics
  Bankole A. Johnson, Robert M. Swift, Nassima Ait-Daoud, Carlo C. DiClemente, Martin A. Javors, and
  Robert J. Malcolm, Jr .................................................. 295
Pharmacological Treatment of Alcohol Abuse/Dependence With Psychiatric Comorbidity
  Charlene E. Le Fauve, Raye Z. Litten, Carrie L. Randall, Darlene H. Moak, Ihsan M. Salloum, and
  Alan J. Green .................................................. 302
The Veterans Aging Cohort Study: Observational Studies of Alcohol Use, Abuse, and Outcomes Among
  Human Immunodeficiency Virus–Infected Veterans
  Joseph Conigliaro, Tamra Madenwald, Kendall Bryant, Scott Braithwaite, Adam Gordon, Shawn L. Fultz,
  Stephen Maisoto, Jeffrey Samet, Kevin Kraemer, Robert Cook, Nancy Day, Diedra Roach, Susan Richey, and
  Amy Justice .................................................. 313

Epidemiology and Prevention
Approaches to Brief Intervention for Hazardous Drinking in Young People
  John B. Saunders, Kypros Kyri, Scott T. Walters, Robert G. Laforge, and Mary E. Larimer .................. 322
Collecting Longitudinal Data Through Childhood, Adolescence, and Young Adulthood: Methodological
  Challenges
  Vivian B. Faden, Nancy L. Day, Michael Windle, Rebecca Windle, Joel W. Grube, Brooke S.G. Molina,
  William E. Pelham, Jr., Elizabeth M. Gnagy, Tracey K. Wilson, Kristina M. Jackson, and Kenneth J. Sher 330
Really Underage Drinkers: Alcohol Use Among Elementary Students
  John E. Donovan, Sharon L. Leech, Robert A. Zucker, Carol J. Loveland-Cherry, Jennifer M. Jester,
  Hiram E. Fitzgerald, Leon I. Puttler, Maria M. Wong, and Wendy S. Looman .............................. 341

Alcohol Effects on the Fetus, Brain, Liver, and Other Organ Systems
Alcohol-Induced Neurodegeneration: When, Where and Why?
  Fulton T. Crews, Michael A. Collins, Cynthia Blagos, John Littleton, Lincoln Wilkins, Edward J. Neafsey,
  Roberta Pentney, Lawrence D. Snell, Boris Tabakoff, Jian Zou, and Antonio Noronha ............... 350