CONTENTS

Commentary
Progress in the Development of Topiramate for Treating Alcohol Dependence: From a Hypothesis to a Proof-of-Concept Study
Barkole A. Johnson .......................................................... 1137

Genetics and Molecular Biology
ADHH*B1, ADHC1C2, DRD2 (~14C Ins.), and 5-HTTLPR Are Associated With Alcoholism in Mexican American Men Living In Los Angeles
Tamiko Komithi, Hsiu-Rong Luo, Maria Caballo, Matthew S. Mayo, Koh-Ming Lin, Yu-Jui Yvonne Wan .......................................................... 1145
The Genetics of Alcohol Intake and of Alcohol Dependence
John B. Whetfield, Gu Zhu, Pamela A. Madden, Michael C. Neale, Andrew C. Heath, and Nicholas G. Martin .......................................................... 1153

Pharmacology and Cell Metabolism
Effect of 5-HT, Receptor Over-Expression on the Discriminative Stimulus Effects of Ethanol
Keith L. Shelton, Malgorzata Duka, and Andrea M. Allan .......................................................... 1161
Ethanol-Inhibited [3H]thymidine incorporation via Protein Kinase C-p42/44 Mitogen-Activated Protein Kinase/phospholipase A2 Signal Pathway in Renal Proximal Tubule Cells
Yun Jing Lee, Jung Hoon Lee, and Ho Jae Han .......................................................... 1172
Modulation of Hypothalamic β-Endorphin-Regulated Expression of Natural Killer Cell Cytolytic Activity
Regulatory Factors by Ethanol in Male Fischer-344 Rats
Madhuri Dohar, Nadia I. Boyadjieva, Juan P. Adria, and Dipak K. Sarkar .......................................................... 1180

Neurobiological, Behavioral and Environmental Relations to Drinking
Increased Cortisol Response to Surgery in Patients With Alcohol Problems Who Developed Postoperative Confusion
Akira Kudoh, Hironobu Kasai, Hajime Takase, and Tomoko Takazawa .......................................................... 1187
Nitric Oxide Synthesis Inhibition Attenuates Conditioned Reinforcement of Ethanol-Seeking, but Not the Primary Reinforcing Effects of Ethanol
Xia Liu and Friedbert Weiss .......................................................... 1194
Immediate Acceptance of Ethanol in Infant Rats: Ontogenetic Differences With Moderate but Not High Ethanol Concentration
Eric Truwell and Norman E. Speal .......................................................... 1200

continued on page ii
Comparison of Intracranial Self-Administration of Ethanol Within the Posterior Ventral Tegmental Area Between Alcohol-Prefering and Wistar Rats
Zachary A. Redd, Richard L. Bell, Roberto I. Melendez, Kelly A. Kac, Lawrence Lumeng, Ting-Kai Li, James M. Murphy, and William J. McBride .................................................. 1212

Diagnosis and Treatment
On Sensitivity, Specificity, and the Influence of Various Parameters on Ethyl Glucuronide Levels in Urine—Results From the WHO/DSRBA Study
Friedrich Martin Wurzel, Gerhard A. Wiesbeck, Jörg W. Metzger, Wolfgang Wernig, and Marc Graf on behalf of the WHO/DSRBA Study on Biological State and Trait Markers of Alcohol Use and Dependence ........................................... 1220
Patterns of Dispensed Disulfiram and Naltrexone for Alcoholism Treatment in a Veteran Patient Population
John A. Horos, Melissa M. Young, David R. Gagnon, and Louis D. Flore ........................................................................................................ 1229
'Test-Retest Reliability of Adolescents' Self-Report of Substance Use
Sharon Levy, Lon Sherritt, Sion Kim Harris, Elizabeth C. Gates, David W. Holder, John W. Kuga, and John R. Knight .................................................. 1236

Epidemiology and Prevention
Antenatal Risk Factors Associated With Postpartum Comorbid Alcohol Use and Depressive Symptomatology
Gregory G. Horsfield, Jack R. Cornelius, Gale A. Richardson, and Nancy L. Day ............................................ 1242

Alcohol Effects on the Fetus, Brain, Liver and Other Organ Systems
Ethanol-induced elevation of 3a-hydroxy-5a-pregnan-20-one does not modulate motor incoordination in rats
Rahul T. Khut, Marguerie J. VanDoren, Douglas R. Matthews, and A. Leslie Morrow .......................................................................................... 1249
Decreased Proteasomal Activity Is Associated With Increased Severity of Liver Pathology and Oxidative Stress in Experimental Alcoholic Liver Disease
Terrence M. Donohue, Jr, Kasun K. Kharbanda, Carol A. Casey, and Amin A. Nami .......................................................................................... 1257
An Association Between Ethanol-Induced Enhancement of c-fos Gene Expression in the Nucleus Tractus Solitarius and the Attenuation of Baroreflexes
Xu Wang and Abdul A. Aidel-Rahman .................................................. 1264

Letters to the Editor
Long-Term Effects of and Physiological Responses to Nitrous Oxide Gas Treatment During Alcohol Withdrawal: A Double-Blind, Placebo-Controlled Trial
Ivan Diamond .................................................................................. 1273
An Incorrect Technique Guarantees Failure
Mark Gillman and Fred Lichtigfeld .................................................. 1273
The Nitrous Oxide Study: Two Points (Expert Response to Gillman/Alho Letters to the Editor)
Jonathan Chick .................................................................................. 1275
Expert Response to Gillman/Alho
Johan Frauck .................................................................................. 1275