ALCOHOL & SUBSTANCE ABUSE

NIH Grant Numbers: T32 DA007288 and T32 AA007474

Program Highlights

Pre- and postdoctoral program to produce scientists knowledgeable in the neurobiology of alcohol and substance use disorders. A multidisciplinary mentor-apprenticeship model is used. Research training is complemented by seminars on substance use disorders, neuroscience courses and laboratory research, grant writing, statistics, ethics, and exposure to treatment strategies.

Faculty Research Areas

Raymond F. Anton, Jr, MD  Alcohol Medications/Diagnostic Predictors
Sudie Back, PhD  Stress Reactivity in Cocaine Dependent Men and Women
Howard C. Becker, PhD  Mechanisms of Chronic Alcohol Neuroadaptation
Jeffrey Borckardt, PhD  TMS and Treatment of Comorbid Disorders
Kathleen T. Brady, MD, PhD  Pharmacotherapy/Comorbidity
Matthew Carpenter, PhD  Tobacco use across abroad methodological continuum
L. Judson Chandler, PhD  Effects of Ethanol on Glutamatergic Systems
Carla Danielson, PhD  Early Life Stress, Trauma and Alcohol Drinking in Humans
Brett Froeliger, PhD  Brain Indices of Nicotine Effects in Smokers
Kevin Gray, MD  Substance Use Disorders in Adolescents and Adults
Colleen Hanlon, PhD  Neural Circuitry of Alcohol and Substance Use Dependence
Jane Joseph, PhD  Cognitive Neuroscience and Addiction
Peter W. Kalivas, PhD  Cellular Basis of Stimulant-Induced Neuroplasticity
Antonieta Lavin, PhD  Role of the Cortico-thalamic Pathway in Drug Addiction
Robert J. Malcolm, MD  Pharmacotherapy of Alcohol and Substance Abuse Disorders
Jacqueline F. McGinty, PhD  Stimulant Effects on Neurotransmitter Release/Gene Expression
Aimee McRae-Clark, PharmD  Cannabis Dependence
Patrick Mulholland, PhD  Chronic Ethanol and Potassium Channels
Carmela Reichel, PhD  Learning, Memory, Addiction
Arthur Riegel, PhD  Mesocorticolimbic Dopamine Signaling
Michael Saladin, PhD  Stress Reactivity in Cocaine Dependent Men and Women
Megan Moran-Santa Maria  Addiction and PTSD
Lindsay Squeglia, PhD  Neuroimaging of Adolescent Alcohol and Cannabis Users
John J. Woodward, PhD  Electrophysiological Analysis of Alcohol and Abused Inhalants

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