Molecular Neuroscience of Alcohol and Drug Abuse Research Training at Rutgers

The Rutgers University Molecular Neuroscience of Alcohol and Drug Abuse Research Training (MNADRT) Program invites applications for NIAAA-funded T32 postdoctoral fellowships related to alcohol and drug abuse research. Possible areas of study include but are not limited to:

- stress-regulatory neuronal circuitry in alcohol and substance abuse disorders
- epigenetic mechanisms of fetal and adult alcohol effects
- transgenerational epigenetic inheritance
- intergenerational transmission of traumatic stress and human addiction related behaviors
- neurocardiac changes in binge drinking and alcohol use disorders
- neuroimmune and behavioral disorders in alcoholism
- neurogenetics and alcoholism
- synaptic dysfunction and alcohol use disorders
- brain substrates of addiction

Faculty mentors include Drs. Dipak Sarkar (fetal alcohol spectrum disorders, neuroimmunology, and transgenerational epigenetic inheritance), Gary Aston-Jones (brain substrates of addiction using advanced behavioral economic and other behavioral and neurotransduction approaches), Marsha Bates and Jennifer Buckman, (interaction between the brain and the heart during thought, emotion, and behavior affecting changes in alcohol use), Sulie Chang (the association between neuroimmune disorders and behavioral disorders caused by alcoholism), Denise Hien (intergenerational transmission of violence and addictions), Ron Hart (human stem cell-derived neuron models of genetic risks for alcoholism), Jay Tischfield (alcoholism and neuropsychiatric disorders within the overall context of neurogenetics), Zhiping Pang (the molecular mechanisms underlying the synaptic dysfunction that leads to neuropsychiatric disorders including alcohol use disorders), and Jiang Ye (opioid and dopamine in alcohol reward mechanisms). With our program's emphasis on comprehensive career mentorship, fellows will also select a secondary mentor from a larger pool of training faculty.

For more information, please visit the program website at **https://mnadrt.rutgers.edu**

Please send a cover letter, a CV, a statement of training and career goals, the names of 3 references, and a transcript to:

Dipak.sarkar@rutgers.edu

Start date is August 2021. Fellows must be US citizens or permanent residents. Rutgers is an affirmative action/equal opportunity employer.