

2021-2022 Senior Honor Theses

Student	Mentor(s)	Thesis title
Amber Mcferren	Flavio Frohlich/Jessica Cohen	Alpha/beta and theta modulation during behavioral impulsivity
Annette Varghese	Margaret Sheridan	Decreased Cortical Thickness Associated With Higher Executive Functioning in Children as Seen Through Longitudinal Development
Autumn Tucker	Leon Coleman/Kate Reissner	Chronic ethanol causes persistent increases in Alzheimer's tau pathology in female 3xtg-AD mice: A potential role for lysosomal impairment
Ben Rees	Mark Zylka/Sabrina Robertson	Characterization of Cortical Development in Mouse Models of Neurofibromatosis Type-1 and Elevated ERK/MAPK Activity
Benjamin Gorman	Sylvia Fitting	The effects of phytocannabinoids and hiv-1 tat on animal behavior and microglia-mediated neurotoxicity
Blake Sutherland	Donita Robinson/Vicki Chanon	Effects of Adolescent Intermittent Ethanol Exposure on Medial Prefrontal Cortex Perineuronal Nets Surrounding Interneurons in Male and Female Rats
David Gonzalez	Todd Thiele	Assessment of CRF Neurons Projections from the Central Amygdala to the Lateral Habenula in Modulating Binge-like Ethanol Consumption
Divya Narayanan	Hiroyuki Kato/Kate Reissner	Biological constraints on stereotaxic targeting of functionally-defined cortical areas
Emily Brinson	Henrik Dohlman/Sabrina Robertson	Characterizing mutant G proteins implicated in movement disorders
Gillian Arleth	Melissa Herman/Rachel Penton	The Role of Central Amygdala Corticotropin-releasing Factor Receptor 1 (CRF1) Neurons in Anxiety-like Behavior and Alcohol Consumption in CRF1 Transgenic Rats
M.J. Carter	Kristen Lindquist	The Impact of Language on Cross-cultural Emotion Perception: An fmri Study
Osahon Iyamu	Emily Ciccone/Rachel Penton	Exploration of the Neurological Impacts of Ehrlichiosis and the Development of a Rapid Diagnostic Tool for the Disease
Peng Xu	Juan Song/Amanda Elton	In Vitro Two Photon Imaging of Calcium Dynamics in Hippocampal Adult Neural Stem Cells
Rachael Fisher	Ryan Vetreno/Rachel Penton	Adolescent Binge Ethanol Exposure Accelerates Alzheimer's Disease-Associated Basal Forebrain Neuropathology
Shivam Bhargava	Jason Stein/Sabrina Robertson	Investigating the Underlying Mechanisms of Cortical Surface Area Overgrowth in Autism Spectrum Disorder Through Induced Pluripotent Stem Cells
Tershona Branch	Charlotte Boettiger	Examining the Effects of Sociodemographic Identity on Adolescent and Current Alcohol Misuse