Brandon Harvey, Ph.D.

Dr. Harvey is a Tenure-Track Investigator and Unit Chief of the Molecular Mechanisms of Cellular Stress and Inflammation Unit in the Intramural Research Program at the National Institute on Drug Abuse. He received his Ph.D. degree in Neurobiology and Anatomy from the University of Rochester. He did his post-doctoral training at the NIDA IRP working cellular and rodent models of neurodegeneration and substance abuse with Dr. Yun Wang. Prior to his Tenure-Track appointment, Dr. Harvey served as the founding Director of the Optogenetics and Transgenic Technology Core facility for 5 years. He initiated and oversaw the NIDA Transgenic Rat Project which developed 16 novel transgenic rats, some of which we will hear about today. Dr. Harvey's primary research focuses on the relationship between endoplasmic reticulum calcium and cellular proteostasis as it relates to neuronal injury and substance abuse. He recently discovered a cellular phenomenon referred to as "exodosis" whereby resident proteins of the endoplasmic reticulum are secreted in response to ER calcium depletion. He is a member of several professional societies including SFN, American Society for Neural Therapy and Repair, American Society for Gene and Cell Therapy, and Society for NeuroImmune Pharmacology.