

Neurobiology of stress, learning and memory

Ph.D. positions are available to study epigenetic mechanisms of aversive learning and memory in the brain. The student(s) will work in the behavioral neuroscience lab of Dr. Timothy Jarome. The lab employs a combination of behavioral, biochemical, pharmacological and genetic approaches to study the cellular and molecular mechanisms of stress, learning and memory and aging in the brain. The student(s) will have the opportunity to learn a variety of traditional and modern molecular biology and neuroscience techniques, which includes combining *in vivo* pharmacology, siRNA-mediated gene knockdown and CRISPR-dCas9 transcriptional editing with western blotting, qRT-PCR, chromatin immunoprecipitation, methylated DNA immunoprecipitation, bisulfite sequencing and other molecular biology methods. Potential applicants should have previous laboratory experience and a willingness to work with rodents (primarily rats). Both the APSC graduate program and neuroscience training at Virginia Tech are strong and qualified individuals that join the lab will have the opportunity to interact with other neuroscience faculty in the Department of Animal and Poultry Sciences, as well as the School of Neuroscience.

If interested, potential applicants are encouraged to contact the principle investigator (tjarome@vt.edu) for more information.