

PIONEERS IN BIOMEDICAL RESEARCH SEMINAR

Presented by the Fralin Biomedical Research Institute at VTC, and co-sponsored by the institute's Center for Neurobiology Research



TIMOTHY PETROS, Ph.D.

Investigator

Unit on Cellular and Molecular Neurodevelopment

Eunice Kennedy Shriver National Institute of Child Health & Human Development

National Institutes of Health

In Person Seminar: An Epigenome Atlas of the Embryonic Mouse Brain to Study Interneuron Neurogenesis in Normal Development and Disease Models

A comprehensive characterization of epigenomic organization in the embryonic mouse forebrain will enhance our understanding of neurodevelopment and provide insight into mechanisms of neurological disease. This is particularly relevant for GABAergic inhibitory interneurons, an extremely heterogeneous population of cells that is critical for nearly all aspects of brain function. Dr. Petros and his research team recently generated an 'Epigenome Atlas' characterizing the transcriptome, chromatin accessibility, histone modifications and higher order chromatin structure in four different embryonic brain regions that give rise to distinct neuronal subtypes. After establishing this ground truth, the lab is now investigating how perturbations in epigenetic regulation affect fate, maturation and function of inhibitory interneurons.

FRIDAY, DEC. 15, at 11 a.m.

Room G101 A/B, 4 Riverside Circle

Watch live via Zoom at <https://FralinBioMed.info/PBR-Join>



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