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

MARNIE HALPERN, Ph.D.

Chair and Andrew J. Thomson Professor
Molecular and Systems Biology
Geisel School of Medicine at Dartmouth

In Person Seminar: Mapping Connections in the Zebrafish Brain

Application of transgenic methods is a powerful way to identify and manipulate neural connections in the brain. Combining transcriptional profiling, CRISPR/Cas9 genome editing and computation strategies allows mapping of connectivity between diencephalic habenular neurons and their midbrain target, the interpeduncular nucleus. Dr. Halpern and her team have also adapted a genetic approach for transsynaptic tracing to a vertebrate nervous system, that of zebrafish, which provides genomic access to synaptically coupled neurons.

FRIDAY, JAN. 26, 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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