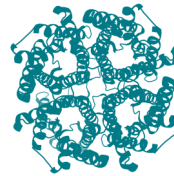




**HSC OFFICE OF RESEARCH SIGNATURE PROGRAMS  
CENTER FOR INFECTIOUS DISEASE & IMMUNITY (CIDI) &  
BRAIN & BEHAVIORAL HEALTH INSTITUTE (BBHI)**

## **SCIENCE SEMINAR**

**Monday, November 7, 10-11 am**  
***In-Person* • Fitz Hall Room 303**



**INVITED SPEAKER**

**T. Dianne Langford, PhD**

**Associate Dean of Research & Professor of Neural Sciences,  
Center for Substance Abuse Research,  
Temple University, Philadelphia**

**“HIV-mediated dysregulation of Aquaporin 4 may  
contribute to the accumulation of aberrant  
proteins in the brain”**

HIV-associated neurocognitive disorder (HAND) occurs in 50% of people with HIV causing decreased quality of life. Dr. Langford hypothesizes that changes in aquaporin-4 (AQP4) may contribute to HAND by decreasing clearance of toxic aberrant proteins and HIV mechanistically alters AQP4 in part via dysregulation of adenosine A2aR. The impact of this proposal may uncover mechanisms through which HIV induces AQP4 mislocalization through A2aR thereby contributing to glymphatic dysfunction and HAND. Elucidating these mechanisms will allow for potential new targets for improved clearance of toxic products from the brain.

**CONTACT US**

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