

NEUROSCIENCE Trainee Meet & Greet

VISITING SPEAKER



Thursday, January 16th, 2025

1:00 PM - 2:00 PM

Kleysen Institute for Advanced
Medicine

Room SR 415

Lunch served

RSVP: Protiti.Khan@umanitoba.ca

DR. ANDY SHIH

Professor, University of Washington, Dept of Pediatrics and Bioengineering
Principal Investigator, Seattle Children's Research Institute,
Center for Developmental Biology and Regenerative Medicine.

Dr. Shih is a Professor in the Department of Pediatrics and an adjunct Professor in the Department of Bioengineering at the University of Washington. He serves as a Principal Investigator at both the Center for Developmental Biology and Regenerative Medicine (CDBRM) and the Norcliffe Foundation Center for Integrative Brain Research (NFCIBR). Additionally, he is a member of the University of Washington's Neuroscience and Molecular/Cellular Biology Graduate Programs. Dr. Shih's research focuses on understanding how blood is supplied to the brain during health and disease. His laboratory employs advanced preclinical optical techniques and mouse genetic targeting strategies to visualize and manipulate blood flow in the brain's smallest arterioles, venules, and capillaries. The overarching goal of his work is to uncover how microvascular anomalies—whether due to brain aging or disease—impact the brain's metabolic supply and function. Dr. Shih earned his PhD in Neuroscience at the University of British Columbia under the mentorship of Dr. Timothy Murphy. His doctoral research centered on the role of Nrf2-mediated antioxidant defenses in neuroprotection after stroke and as a potential therapeutic target to enhance stroke recovery. Following his PhD, he completed a postdoctoral fellowship at the University of California, San Diego, under Dr. David Kleinfeld, where he pioneered optical methods for visualizing and manipulating small vessels in the rodent brain using in vivo two-photon microscopy. Dr. Shih's research has been supported by the NIH and prominent organizations such as the American Heart Association, Alzheimer's Association, Dana Foundation, and New Vision Award. Many of his trainees have received prestigious fellowships and have gone on to successful careers in research and medicine.

ALL TRAINEES WELCOME