

NEUROSCIENCE SEMINAR SERIES

TUESDAY, DECEMBER 2, 2025

1:00-2:00PM

IN PERSON ROOM 2003 AND ZOOM



PRESENTED BY:

Silke Nuber, PhD

Associate Professor, Dept of Neurology
Ann Romney Center for Neurologic Diseases
Brigham and Women's Hospital
Harvard Medical School

Hosted by Dr. Michael Schlossmacher

SEMINAR TITLE

**"A-SYNUCLEIN TETRAMER ABROGATION: BIOCHEMICALLY
ADVANCED PD MOUSE MODELS WITH IMPLICATIONS IN LIPID
METABOLISM AND ESTROGEN-PATHWAYS"**

Learning Objectives

1. Abrogating physiological a-synuclein tetramers produces neuropathology and a progressive motor syndrome resembling PD, including partial protection by female sex based on synaptic estrogen receptor availability
2. Distinct a-synuclein mutations causing graded solubility can impact synaptic function and motor skill learning abilities
3. Increasing certain membrane phospholipid saturation improve the a-synuclein physiological state in vivo and may guide the development of PD therapeutic approaches.