

NEUROSCIENCE SEMINAR SERIES

TUESDAY, APRIL 22, 2025

1:00-2:00PM

IN PERSON ROOM 2005 AND ZOOM



PRESENTED BY:

Franck Polleux, PhD

Professor, Columbia University

Department of Neuroscience

Mortimer B. Zuckerman Mind Brain Behavior Institute

Hosted by Drs. Baptiste Lacoste and Simon Chen

SEMINAR TITLE

**"HUMAN-SPECIFIC GENETIC MODIFIERS OF SYNAPTIC
DEVELOPMENT AND THEIR IMPACT ON CIRCUIT FUNCTION AND
DISEASE EXPRESSION."**

Learning Objectives

1. Gain an understanding of the genetic mechanisms shaping human brain evolution.
2. Understand the impact of one human-specific genetic modifier, the human-specific gene duplications SRGAP2B/C, on synaptic development, circuit function and behavioral performance.
3. Gain an understanding that human-specific gene duplications are not only relevant to understand human brain evolution but also represent the first documented example of human-specific modifiers of disease expression.