

**Gene-Brain-Behavior Interactions in Neurodevelopmental Disorders:
Towards an Integration of Perspectives on Disease Mechanisms**
T32 Postdoc Seminar Series

University of North Carolina at Chapel Hill
Carolina Institute for Developmental Disabilities
FALL 2017 and SPRING 2018 Syllabus

PURPOSE

This seminar examines the topics of genetics, neuroanatomy, physiology, and behavioral development to provide a broad-based and integrated background to understand the etiology and potential mechanism underlying neurodevelopmental disorder

TIME AND LOCATION

Wednesdays, 9:00 am – 10:30 am
Autism Building off Smith Level Road, 2nd floor conference room
Address: 100 Renee Lynne Court, Carrboro*

COURSE DIRECTORS

Joe Piven, MD and Ben Philpot, PhD

***Coordinators: Shana Hall, PhD, Candace Killian-Farrell, PhD, Alexander Tuttle, PhD,
Brienne Gerlach-McDonald, PhD, Justin Wolter, PhD, and Charles Shyng, PhD.***

Sept 20	Early Neurodevelopment Eva Anton, PhD Professor, Cell Biology and Physiology
Oct 11	Family and Peer Influence on Adolescent Neurocognitive Development Eva Telzer, PhD Assistant Professor, Psychology and Neuroscience
Oct 25	Clinical Translation Research Methods Gabriel Dichter, PhD Associate Professor, Psychiatry and Psychology-CIDD Director, Clinical Affective Neuroscience Lab
Nov 29	Using Rare Genetic Disorders to Advance Schizophrenia Research Martilias Farrell, PhD Research Assistant Professor, Genetics
Dec 6	Brain Network Organization in ADHD Jessica Cohen, PhD Assistant Professor, Psychology and Neuroscience
Dec 13	Repetitive Behavior-Phenomenology and Application Brian Boyd, PhD Associate Professor, Allied Health Sciences

- Feb 7 **Animal Models of Neurodevelopmental Disorders and the Clinical Genome Consortium**
Courtney Thaxton, PhD
Research Specialist, Genetics
- Feb 14 **Neural Plasticity in Neurodevelopmental Disorders**
Ben Philpot, PhD
Professor, Cell Biology and Physiology
Associate Director, Neuroscience Center
- Feb 21 **Genes, Microbes, and the Infant Brain**
Rebecca Santelli, PhD
Associate Professor, Psychiatry
- Mar 14 **Overview of the iPS Technology**
Adriana Beltran, PhD
Research Assistant Professor, Pharmacology
Facility Director, Human Pluripotent Stem Cell Core
- Mar 28 **Genetic and Behavioral Mouse Models of Developmental Disorders**
Sheryl Moy, PhD
Professor, Psychiatry
- Apr 4 **Language Development in Children with Neurodevelopmental Disorders**
Linda Watson, EdD
Research Professor, Allied Health Sciences-Speech and Hearing
- Apr 13 **Genetic and Environmental Risk Factors for Autism**
Mark Zylka, PhD
Professor, Cell Biology and Physiology
Director, Neuroscience Center
- Apr 18 **Genetic Influences on Human Cortical Development**
Jason Stein, PhD
Assistant Professor, Genetics
- Apr 25 **Visual System Neurobiology and Development**
Spencer Smith, PhD
Associate Professor, Cell Biology and Physiology
- May 9 **Environmental Toxicants and Neurodevelopment**
Stephanie Engel, PhD
Associate Professor, Epidemiology
- May 25 **New Behavioral Assays to Measure Social Behavior in Mice**
Alexander Tuttle, PhD
Postdoctoral Research Associate, CIDD
- July 13 **Brain Networks in Psychopathology**
Shana Hall, PhD
Postdoctoral Research Associate, CIDD