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*

COORDINATE DIRECTORS
Joe Piven, MD and Ben Philpot, PhD

Coordinators: Shana Hall, PhD, Candace Killian-Farrell, PhD, Alexander Tuttle, PhD, Brianne 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