

CHARLES E. SCHMIDT COLLEGE OF MEDICINE
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LECTURE ABSTRACT

Typically developing individuals exhibit broad heterogeneity in cognitive, social and emotional behaviors. While neuroscientists are still struggling with understanding the mechanisms that underlie this heterogeneity, the field now has recognized that individual differences, even between two individuals with the same categorical neurodevelopmental diagnosis, can be profound. Thus, the identical causal mutation often leads to clinical symptoms that may differ widely in those who are affected. These differences, in turn, create challenges for implementing the most effective clinical treatments. Studies will be presented that address the biological nodes that contribute to functional heterogeneity. Experiments address the heritable contributions to behavioral heterogeneity broadly, and that different components of complex behavior may be impacted by distinct genetic factors. Moreover, studies that address molecular and cellular mechanisms that underlie differences in neurodevelopmental trajectories for vulnerable circuits that are controlled by genes and environment will be presented. Moreover, there may be differences in brain plasticity that will impact how environmental factors contribute to heterogeneity. This research informs new ideas regarding the capacity for change, and the importance of incorporating best practices that do not settle for the 'one size fits all' approach to treatment of children, adolescents and adults with neurodevelopmental disorders.

FAU CHARLES E. SCHMIDT
COLLEGE OF MEDICINE
Florida Atlantic University

YOU ARE INVITED TO ATTEND A
SPECIAL SEMINAR ON BIOLOGICAL
ORIGINS OF AUTISM HETEROGENEITY

Host: Dr. Randy Blakely

FRIDAY, APRIL 21, 2017
3:30 P.M.

*NOTE SPECIAL ROOM:
NU-201 (NURSING)