



THE UNIVERSITY OF ARIZONA
MEL & ENID ZUCKERMAN COLLEGE OF PUBLIC HEALTH

School of Health Professions

Genetic Counseling Graduate Program

PRESENTS

Genetics and Genomics Grand Rounds

April 15th | 4 – 5:00 pm | HSIB 880/Zoom

<https://arizona.zoom.us/j/82111906496>

Telephone: 602-753-0140 | Meeting ID: 821 1190 6496

Speaker Host: Yann Klimentidis | yann@arizona.edu

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Moving from disease gene discovery to gene-targeting therapies for neurodevelopmental disorders



Michael Kruer, MD is a pediatric neurologist and physician-scientist specializing in pediatric movement disorders and neurogenetics. He serves as Director of Neuroscience Research at the Barrow Neurological Institute at Phoenix Children's and as a Professor at the University of Arizona Phoenix campus. His work combines clinical care with translational research to advance diagnosis and treatment for children with neurodevelopmental disorders, particularly those impacting movement.

A major focus in the Kruer lab has been on disease gene discovery and identification of relevant mechanisms using a combination of phenomics, genomics, bioinformatics, and cell biology. Kruer and his team have led or contributed to the discovery and characterization of more than 50 novel genes that lead to childhood neurodevelopmental disorders. More recently, their work has sought to use genetic insights to improve diagnosis and treatment through n-of-1 trials, drug repurposing, and gene-based therapeutics.

Dr. Kruer's research bridges diverse disciplines and partners closely with families. His research receives support from foundations, both commercial and nonprofit philanthropy, and federal agencies, including the National Institutes of Health.

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