

GENETICS, BIOINFORMATICS, AND SYSTEMS BIOLOGY COLLOQUIUM

THURSDAY NOVEMBER 10
12:00PM PST
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"SYSTEMS BIOLOGY APPROACHES TO STUDYING ALS AND PARKINSON'S DISEASE PATHWAYS"

Our lab has begun developing systems biology approaches to study dysregulation in neurodegenerative disease. We are applying these approaches to characterize patient heterogeneity and understand cell-fate decisions in disease-related pathways. In this talk, I discuss recent progress in developing cell phenotypic subtyping approaches for FUS-ALS and understanding how the Pink1/Parkin circuit avoids errant activation of mitophagy.

Over the past two decades, the collaborative labs of Drs. Wu and Steven Altschuler have pioneered systems-biology approaches to disentangle phenotypic cellular heterogeneity and identify molecular mechanisms and design principles of biological networks. This work has led to new understandings of how cells and tissues create spatial patterns and how cancer cells make cell fate decisions during and after drug treatment