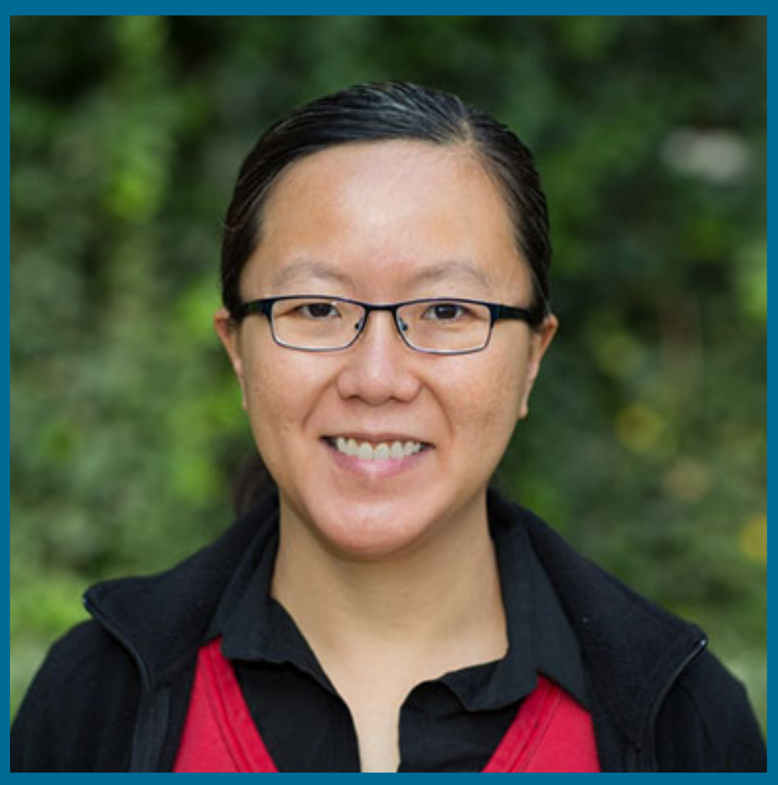
Thursday december 1
12:00 PM PST

VIRTUAL

Zoom Info:

Link: https://uchealth.zoom.us/j/84402810139?pwd=TXdUSkJJbGc0dEZxQ2VTMU5MQTlvQT09

Password: Genome **Click:**



GBSBC PRESENTS:

TENG-TING (ELAINE) LIM, PHD

UMASS CHAN MEDICAL SCHOOL

GENOMICS APPROACHES USING CEREBRAL ORGANOIDS FOR GENETICS-DRIVEN THERAPEUTICS IN AUTISM AND ALZHEIMER'S DISEASE

Our group works on identifying gene and genotype to cell type-specific molecular processes using high-throughput methods on donor-derived and CRISPR/Cas9-edited cerebral organoids. We continue to develop computational methods for identifying critical cell types and cell type-specific driver genes underlying the 16p11.2 locus associated with autism, with the goal of identifying cell type-specific gene targets for therapeutics. In parallel, our group used transcriptomics-based methods to study the contribution of viral infections in Alzheimer's Disease using cerebral organoids, and in combination with the large-scale genomics data generated from human samples, we aim to identify gene targets for therapeutics development in a subset of patients with Alzheimer's Disease.

Presented By: IGM Institute for Genomic Medicine | UC San Diego Bioinformatics & Systems Biology

For information on upcoming lectures visit: genomic.weebly.com

GBSBC Genetics, Bioinformatics, & Systems Biology Colloquium