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

September 17th | 4 – 5:00 pm | HSIB 880/Zoom

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

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

Speaker Host: Valerie Schaibley, PhD | vschaibley@arizona.edu
Contact: Reem Parra | reemparra@arizona.edu

Endothelial Molecular Phenotyping for Functional Human Genetics

The overarching goal of my research program is to better understand the interaction between DNA variation and gene regulation. I study this interaction in settings of inflammation with application to complex diseases like atherosclerosis and hypertension. My research is predominantly focused on endothelial cells, which line blood vessels and are mediators of inflammation in the vessel wall. Using next-generation sequencing technologies, and a combination of experimental and computational approaches, we study how endothelial cells achieve context-appropriate expression patterns in healthy and inflammatory settings. By leveraging the interconnected relationship between DNA sequence, epigenetics, gene expression, and disease loci from genome-wide association studies, we aim to identify and interpret complex disease mechanisms.

Casey E. Romanoski, PhD
Associate Professor, Cellular and Molecular Medicine
Associate Professor, Clinical Translational Sciences
Associate Professor, Genetics GIDP
Associate Professor, BIO5 Institute