

Genetics and Genomics (G2) Seminar Series



**INSTITUTE FOR GENOME
SCIENCES AND SOCIETY**
TEXAS A&M UNIVERSITY

The Interdisciplinary Faculty of Genetics
Genetics Graduate Student Association

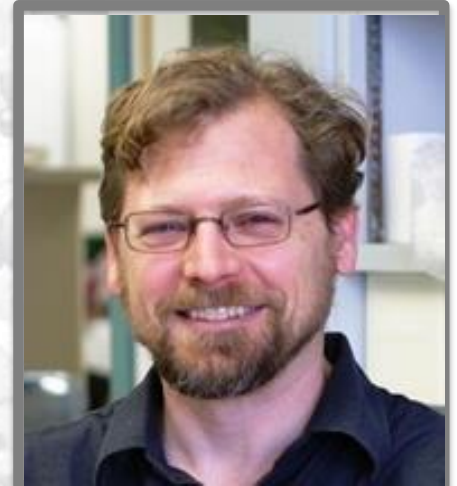


Evolution and the Proteome: Insights into Protein Function from Deeply Conserved Gene Modules

Dr. Edward Marcotte

**Department of Molecular Biosciences,
University of Texas**

Dr. Marcotte earned a PhD from the University of Texas before holding postdoc positions at UT-Austin and UCLA. He works at the interface of systems biology and evolution, and will speak on his group's work to test the extent to which deeply homologous genes and pathways are predictive across distant eukaryotic species, including searches for new models of human disease among phenotypes of distant organisms. Functional analysis is done by, systematically humanizing yeast cells with high-throughput protein mass spectrometry to measure conserved physical interactions among the thousands of proteins shared across the eukaryotic tree of life. Studies such as these reveal the evolutionary basis for traits and diseases, help annotate the expressed proteomes of major eukaryotic lineages, and reveal the evolutionary conservation, divergence, and rewiring of protein complexes across eukaryotic proteomes.



Monday, February 5, 2018

4:00 p.m.

Auditorium/Room 108

BioBio Building

Refreshments at 3:30 p.m. in the lobby.

Host: Dr. Michael Polymenis
polymenis@tamu.edu

—Genetics

Texas A&M Institute for Genome
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