Genetics and Genomics (G2) Seminar Series

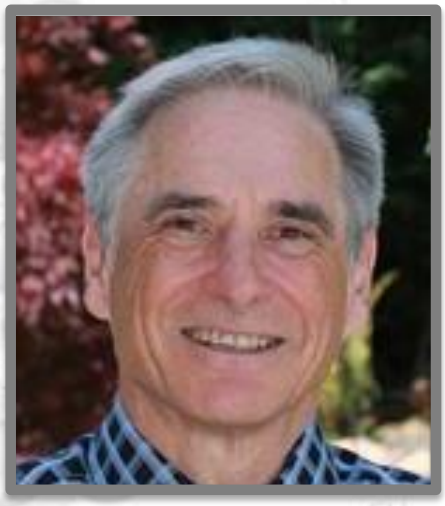
INSTITUTE FOR GENOME SCIENCES AND SOCIETY
TEXAS A&M UNIVERSITY

The Interdisciplinary Faculty of Genetics
Genetics Graduate Student Association

Repercussions of the unruly behaviors of the mitochondrial genome

Dr. Pat H. O'Farrell

Department of Biochemistry and Biophysics, University of California, San Francisco



Dr. O'Farrell research focuses on the temporal control of the cell cycle at early stages of embryogenesis, using Drosophila as a model. His lab explores the timing of the extremely rapid early embryonic cycles, and the abrupt slowing of the cycle precisely after the 13th mitosis, defining the molecular basis of the switch and the mechanisms that so precisely time the transition. A second area of Dr. O'Farrell research is based on a genetic system developed in his lab to select for heritable mitochondrial genome (mtDNA) mutations in Drosophila. His system probes for conundrums in mitochondrial biology: mechanisms that select against unfavorable mitochondrial mutations; the uniparental inheritance of the mitochondrial genome; the tissue specificity of human syndromes that are caused by mitochondrial dysfunction.

Monday, November 13, 2017

4:00 p.m.

Auditorium/Room 108
BioBio Building

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

Host: Dr. Jun-yuan Ji
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Genetics

Texas A&M Institute for Genome Sciences and Society (TIGSS)

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