



The Department of Pharmacology

Proudly Presents the
Seminar Series:

Frontiers in Pharmacology

“Specificity of the Beta adrenergic signaling in cardiac myocytes: role of phosphodiesterases”

The presentation will address the concept that β_1 and β_2 adrenergic signals in the heart are defined by the interaction and regulation of distinct phosphodiesterases type 4 (PDE4) isoenzymes. We will provide data that different PDE4s function distal to the two receptors modulating different biological effects. We will demonstrate that the PDE4 isoform, PDE4B, functions in cardiac myocytes in a restricted compartment associated with the β_1 -A and the Cav1.2 channel, whereas PDE4D controls cAMP in multiple compartments. We will review data documenting that the β_1 AR/PDE4D complex at the plasma membrane plays a role in generating β antagonist signals.

Marco Conti, MD

Professor and Director,
Center for Reproductive Sciences
University of California, San Francisco

Tuesday, March 19, 2013

4:00 pm

GBSF Auditorium

(Rm. # 1005)

Host: Kevin Xiang: ykxiang@ucdavis.edu

Light refreshments will be served.