

# PHYSIOLOGY & MEMBRANE BIOLOGY

SCHOOL OF MEDICINE  
UNIVERSITY OF CALIFORNIA AT DAVIS



## DISTINGUISHED SPEAKER SERIES

**Bertil Hille, Ph.D.,**  
**Wayne E. Crill Endowed Professor**  
**Department of Physiology & Biophysics**  
**University of Washington, School of Medicine**

“G-protein coupled receptors modulate ion channels and many other cellular functions through phosphoinositide lipid signals”

**Friday, October 3, 2008**

**10:00 am**

Genome and Biomedical Sciences Facility  
**Auditorium, Room 1005**

**Reception immediately following the Seminar**

**In the Foyer 11:00am – 11:40am**

Hormones and neurotransmitters regulate heart rate, electrical excitability, synaptic transmission, mental state, and epithelial transport by receptor-mediated modulation of ion channels. One unexpected cellular mechanism for this signaling involves depletion of the rare membrane phosphoinositide PIP<sub>2</sub>, a phospholipid that is required for function of numerous membrane proteins. Other phosphoinositides also have major signaling and ZIP-code roles within the cell.

**Contact Information:**

**Alla Fomina, Ph.D.**  
affomina@ucdavis.edu  
**Yu-Fung Lin, Ph.D.**  
yflin@ucdavis.edu