



The Department of Pharmacology

Proudly Presents the
Seminar Series:

Frontiers in Pharmacology

“Membrane-targeted approaches to rescuing neurons from death following hypoxia-ischemia.”

Despite increasing understanding of the mechanisms by which neurons die following hypoxia-ischemia, our ability to rescue neurons injured by this insult remains very limited, so that death and long-term disability remain an important problem. In this talk, I will discuss our work in rescuing injured neurons using tri-block co-polymers of polyethylene and polypropylene oxides. These co-polymers interact with cellular membranes to provide profound neuronal rescue. I will focus mainly on our work with an in vitro model of hypoxia-ischemia, in which we have determined cellular and molecular mechanisms of this co-polymer-mediated neuronal rescue, as well as some of our promising work in rescuing neurons following global forebrain ischemia in vivo.

Jeremy D. Marks, MD, PHD FRCPC

Associate Professor

**Department of Pediatrics, Neurology, and The College Committees on
Neurology, Molecular Medicine and Metabolism,
University of Chicago**

Tuesday, April 16, 2013

4:00 pm

Genome Center (Rm. # 1005)

Host: Florin Despa : fdespa@ucdavis.edu

Light refreshments will be served.