

The Department of Cell Biology and Neuroscience presents:

## Departmental Seminar

# Dr. Ardem Patapoutian

The Scripps Research Institute

## “The fifth sense: molecular mechanisms of temperature and pain detection”

*please note  
new time!*

**Friday, Sept. 28, 2007**

**3:00pm**

**108 Ag/Plant  
Bioscience**

Sensory touch neurons are able to translate mechanical forces, chemical stimuli, and temperature, of intensities perceived as innocuous to painful, into electrical activity. My group and others have discovered proteins that enable sensory neurons to detect temperature and pain information. These proteins, members of Transient Receptor Potential family of ion channels that we have dubbed thermoTRPs, cause membrane depolarization in response to shifts in temperature.



Genomics Institute of the  
Novartis Research  
Foundation

Dr. Patapoutian is an Associate Professor at the Scripps Research Institute in the department of Cell Biology and the Harold Dorris Neurological Institute. He also holds the appointment of Director of Discovery Research at the Genomics Institute of the Novartis Research Foundation.



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