

COURSE-SYMPOSIUM:

Signal Transduction and Vesicular Trafficking

*From August 1 to 4, 2016, at the "Antonio Peña Díaz" Auditorium.
Instituto de Fisiología Celular, UNAM. Mexico city, Mexico.*

*Organizers: Marina Macías-Silva (IFC-UNAM) and Claudia González-Espinosa
(Cinvestav-IPN).*

BASIC COURSE:

August 1. Introductory Course

- 8:30 am Presentation.
- 9:00 am Introduction to Membrane Dynamics.
Diego González-Halphen (Instituto de Fisiología Celular, UNAM)
- 10:00 am Basics on Cytoskeleton Structure and Dynamics.
Fernando López-Casillas (Instituto de Fisiología Celular, UNAM)
- 11:00 am *Coffee break*
- 11:15 am Basics on Signal Transduction I. (*General concepts, GPCRs, Ion channels, and Chemokines*)
Alberto Olivares-Reyes (CINVESTAV-IPN)
- 12:15 pm Basics on Signal Transduction II. (*RTKs and Kinase-associated Receptors*).
José Vázquez-Prado (CINVESTAV-IPN)
- 13:15 pm *Lunch break*
- 15:00 pm Basics on Regulation of Gene Expression.
Angeles C. Tecalco-Cruz (Instituto de Investigaciones Biomédicas, UNAM)
- 16:00 pm Basics on Secretion.
Claudia González-Espinosa (CINVESTAV-IPN)
- 17:00 pm *Coffee break*
- 17:15 pm LaNSBioDyT: National Laboratory of Biomimetic Systems for Therapy and Diagnostic.
Mathieu Hautefeuille (Facultad de Ciencias, UNAM)

SYMPOSIUM:

August 2. Session I

- 9:00 am Tumor Endothelial Markers linked to angiogenic signaling via RhoGTPases
José Vázquez-Prado (CINVESTAV-IPN)
- 10:00 am Zebrafish TGF-beta co-receptors.
Fernando López-Casillas (Instituto de Fisiología Celular, UNAM)
- 11:00 am *Coffee break*
- 11:15 am Orai channels function as check valves for the endoplasmic reticulum Ca²⁺ store.
Agustín Guerrero (CINVESTAV-IPN)
- 12:15 pm Use of total internal reflection (TIRF) for the massive screening of ligands
Luis Vaca (Instituto de Fisiología Celular, UNAM)
- 13:15 pm *Coffee break*

Keynote Lecture

- 13:30 pm Differential alpha-1-adrenoceptor internalization traffic during homologous and heterologous desensitizations.
J. Adolfo García-Sáinz (Instituto de Fisiología Celular, UNAM)

August 3. Session II

- 9:00 am RNA Therapeutics and exosomes as delivery vehicles
S. Eréndira Avendaño (INMEGEN)
- 10:00 am Control of IL-9 cytokine expression, regulation and function *in vivo*
Paula Licona-Limón (Instituto de Fisiología Celular, UNAM)
- 11:00 am *Coffee break*
- 11:15 am B cell innate immune response is impaired by SopB Salmonella protein
Vianey Ortiz-Navarrete (Cinvestav-IPN)
- 12:15 pm Participation of CD13 (Aminopeptidase N) in the phagocytic process
Enrique Ortega (Instituto de Investigaciones Biomédicas, UNAM)
- 13:15 pm *Coffee break*

Keynote Lecture

- 13:30 pm Role of Rab proteins on cytokine secretion in mast cells
Ronit Sagi-Eisenberg (Tel Aviv University).

August 4. Session III

- 9:00 am Endosomes as GPCR signaling vehicles
Guadalupe Reyes-Cruz (CINVESTAV-IPN)
- 10:00 am PKC ζ participates in signalosome formation and stabilization during Wnt signaling
Martha Robles-Flores (Facultad de Medicina, UNAM)
- 11:00 am *Coffee break*
- 11:15 am Molecular adapters in B cell signaling
Nadine Varin-Blank (INSERM- Université Paris-Diderot)
- 12:15 pm Unveiling novel signaling pathways from protein-protein interaction networks
Miriam Barrios-Rodiles (Lunenfeld-Tanenbaum Research Institute, Sinai Health System)
- 13:15 pm *Coffee break*

Keynote Lecture

- 13:30 pm Molecular mechanisms leading to anaphylactic secretion in mast cells
Ulrich Blank (INSERM- Université Paris-Diderot)
- 14:30 pm **CLOSING REMARKS**