

The Embassy of Japan in Mexico, The Japan Science and Technology Agency (JST), The Universidad Nacional Autónoma de México (UNAM), The Consejo Nacional de Ciencia y Tecnología (CONACyT) & the Instituto de Ciencia y Tecnología del DF Invite you to:

ようこそ メキシコ!

The JAPAN-MEXICO

SCIENTIFIC WORKSHOP PHARMACOBIOLOGY & NANOBIOLOGY

February 25-26, 2009

Institute of Cellular Physiology UNAM

INFO: secdir@ifc.unam.mx

Tel: 56-22-56-03 / 04

<http://www.ifc.unam.mx>

Pharmacobiology:

WEDNESDAY 25, 9:00HRS

participating scientists:

Cardiovascular pharmacology & cancer

SHIGETOMO FUKUHARA
NATIONAL INSTITUTE OF VASCULAR RESEARCH, OSAKA

MARTHA ROBLES-FLORES
FACULTY OF MEDICINE, UNAM

Cellular signalling

GOZOH TSUJIMOTO
KYOTO UNIVERSITY

J. ADOLFO GARCÍA-SÁINZ
INSTITUTE OF CELLULAR PHYSIOLOGY, UNAM

HIROSHI TAKESHIMA
KYOTO UNIVERSITY

JOSÉ VÁZQUEZ-PRADO
NATIONAL POLYTECHNIC INSTITUTE, CINVESTAV-IPN

Therapeutic target

TOSHIO TANAKA
MIE UNIVERSITY

YVONNE ROSENSTEIN
BIOTECHNOLOGY INSTITUTE, UNAM

Receptor biology

AKIHITO TANOUÉ
NATIONAL INSTITUTE OF RESEARCH FOR INFANT HEALTH & DEVELOPMENT

KELJI NARUSE
OKAYAMA UNIVERSITY

CARLOS ROSALES
INSTITUTE OF BIOMEDICAL RESEARCH, UNAM

Nanobiology:

THURSDAY 26, 9:30HRS

participating scientists:

Infection and assembly

TOMOKO YAMAMOTO
CHIBA UNIVERSITY

HIROKI NAGAI
OSAKA UNIVERSITY

BERTHA GONZÁLEZ-PEDRAJO
INSTITUTE OF CELLULAR PHYSIOLOGY, UNAM

TOHRU MINAMINO
OSAKA UNIVERSITY

Gene regulation

JOSÉ LUIS PUENTE
INSTITUTE OF BIOTECHNOLOGY, UNAM

DAVID ROMERO
CENTER OF GENOMIC SCIENCES, UNAM

MAXIMINO ALDANA
INSTITUTE OF PHYSICAL SCIENCES, UNAM

Signal networks

GEORGES DREYFUS
INSTITUTE OF CELLULAR PHYSIOLOGY, UNAM

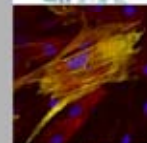
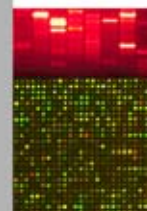
IKURO KAWAGISHI
HOSEI UNIVERSITY

DIMITRIS GEORGELLIS
INSTITUTE OF CELLULAR PHYSIOLOGY,

Molecular motors

AKIHIKO ISHIJIMA
TOHOKU UNIVERSITY

KEIICHI NAMBA
OSAKA UNIVERSITY



Design: D.J. Castillo



Japan-Mexico Workshop on
“Pharmacobiology” and “Nanobiology”

25.-27.02.2009,

At Universidad Nacional Autónoma de México
(UNAM), Mexico City, Mexico

Day 2 Program Nanobiology

from bacterial physiology to biophysics

Organized by

Georges Dreyfus & Bertha González Pedrajo, UNAM

Keiichi Namba & Tohru Minamino, Osaka University

Day 2 Program Session I & II

9:30- 11:45 Session I Infection and Assembly

(Session chair: Georges Dreyfus, UNAM)

09:40-10:05 Tomoko Yamamoto “Two functionally distinct Type III secretion systems for Salmonella pathogenesis”

10:10-10:35 Hiroki Nagai “The Dot/Icm Type IV secretion system and effector proteins: essential players in Legionella infection”

10:40-11:05 Bertha González Pedrajo “Mechanisms participating in the biogenesis of the type III secretion system of enteropathogenic Escherichia coli”

11:10-11:35 Tohru Minamino “Molecular Mechanism of Bacterial Flagellar Protein Export”

Lunch

13:00-14:10 Session II Gene Regulation

(Session chair: Tohru Minamino, Osaka University)

13:00-13:25 José Luis Puente “Mechanisms controlling the expression of the locus of enterocyte effacement genes in attaching and effacing pathogens”

13:30-13:55 David Romero “It takes two to tango: gene conversion in the Rhizobium genome”

14:00-14:25 Maximino Aldana “Criticality, robustness and evolvability in genetic regulatory networks”

Day 2 Program Session III & IV

14:50- 16:20 Session III Signal Networks

(Session chair: Prof. Bertha González Pedrajo, UNAM)

14:50-15:15 Georges Dreyfus “Chemotactic and structural studies in the photosynthetic bacterium *Rhodobacter sphaeroides*”

15:20-15:45 Ikuro Kawagishi “Receptor localization and signaling in bacterial chemotaxis”

15:50-16:15 Dimitris Georgellis “Short fatty-acids act as alarmones that directly signal to the BarA/UvrY two-component system the entry to stationary phase of growth”

Coffee Break

16:40- 17:40 Session IV Molecular Motors

(Session chair: Dr. Hiroki Nagai, Osaka University)

16:40-17:05 Akihiko Ishijima “Direct observation of **steps in rotation of the bacterial flagellar motor**”

17:10-17:35 Keiichi Namba “**Molecular mechanisms of self-assembly and motion of the bacterial flagellum**”

17:40- 17:50 Day 2 Closing Remarks

Georges Dreyfus, UNAM