



MAX-PLANCK-GESELLSCHAFT

Symposium Frontiers of Science CONACYT – Max Planck Society



Consejo Nacional de Ciencia y Tecnología

Tuesday, February 27

8:00-8:30

Registration

8:30-9:00

Inauguration

9:00–10:00

Astronomy / Astrophysics

David Hughes - National Institute of Astrophysics, Optics and Electronics (INAOE)

"The Large Millimeter Telescope Alfonso Serrano: unveiling the obscured dusty universe"

Anton Zensus - MPI for Radio Astronomy

"Radio imaging of Active Galactic Nuclei with Extreme Angular Resolution"

10:00–11:00

Hubert Klahr - MPI for Astronomy

"The birth of planets at home and abroad: On Exo-Planets and how our Solar System was formed"

Frédéric Masset - Institute of Physics – UNAM

"Planet formation"

11:00–11:30

Break

11:30–12:30

Material Research

José Luis Rodríguez - Institute for Scientific and Technological Research of San Luis Potosi (IPICYT).

"Rational Design of Plasmonic Photocatalytic Semiconductors"

Beatriz Roldán - MPI Fritz Haber

"New insights into the dynamic nature of nanocatalysts under reaction conditions"

12:30–13:30

Gabriel Luna - Center for Research and Advanced Studies (CINVESTAV)

"Deep Eutectic Solvents: a green platform for advanced materials synthesis"

Katharina Landfester - MPI for Polymer Research

"Nanocapsules for targeted drug delivery"

13:30–14:30

Lunch

14:30–15:30

Neurosciences

Peter Mombaerts - MPI Research Unit for Neurogenetics

"Targeting olfaction"

Xavier Soberón - National Institute of Genomic Medicine (INMEGEN)

"TBC"

15:30–16:30

Biomedicine

Luis Alonso Herrera - National Institute of Cancer

"TBC"

Thomas Meyer - MPI for Infection Biology

"The causality of chronic bacterial infections in human cancer"

16:30–17:00

Break

17:00–18:00

Neurosciences

Jason Kerr - MPI Neuroscience

"Quantification of head and eye movements in freely behaving mammals: seeing what they see"

Elder de la Rosa - Research Center in Optics (CIO)

"TBC"

February 27 – March 1, Mexico City

Auditorio Jaime Torres Bodet - Museo Nacional de Antropología



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CONACYT

Consejo Nacional de Ciencia y Tecnología

Wednesday, February 28

8:30-9:00

Registration

9:00-10:00

Neurosciences

Walter Stühmer - MPI for Experimental Medicine

"A synthetic approach to neurobiology"

Oscar Arias Carrión - Hospital General Dr. Manuel Gea González

"TBC"

10:00-11:00

Biomedicine

Alejandro García Carrancá - Institute of Biomedical Research - UNAM

"Human papilloma virus, stem cells and cancer"

Stefan Offermans - MPI for Heart and Lung Research

"Novel insights into the mechanisms underlying tumor cell metastasis"

11:00-11:30

Break

11:30-12:30

Archaeology
Archaeogenetics

Johannes Krause - MPI for the Science of Human History

"Ancient New World Pathogen Genomics"

Arturo González - Desert Museum

"The challenges and future of archaeology and paleontology studies in México"

Rodrigo Barquera - MPI for the Science of Human History

"The immune challenges that shaped pre-Hispanic populations in the Americas"

12:30-13:30

Social
Sciences

Olga Hansberg Torres - Faculty of Philosophy and Literature - UNAM

"TBC"

Ute Frevert - MPI for Human Development

"Populism and the Power of Emotions in"

13:30-14:30

Lunch

14:30-15:30

Social
Sciences

Axel Börsch-Supan - MPI for Social Law and Social Policy

"The economics of individual and population aging: lessons from international comparisons"

Rebecca Wong - University of Texas

"TBC"

15:30-16:30

Jorge Chabat - Center for Research and Teaching of Economics (CIDE)

"TBC"

Matias Dewey - MPI for the Study of Societies

"The informal pact: the political economy of law violation"

16:30-17:00

Break

17:00-18:00

Chemical Ecology
and Plant Sciences

Bryson Voirin - MPI for Ornithology

"A global platform to track animals from space"

Ing. Raúl Jiménez Rosenberg - Commission for the Knowledge and Use of Biodiversity (CONABIO)

"Intelligence for decision making on the Natural Capital of Mexico"

19:30-21:00

Dinner

February 27 – March 1, Mexico City

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CONACYT
Consejo Nacional de Ciencia y Tecnología

Thursday, March 1

9:00–10:00

Chemical Ecology and Plant
Sciences

Alejandra Bravo – Biotechnology Institute - UNAM

“Crop protection from insect attack and evolution of resistance of insect to GMO crops”

David Heckel - MPI for Chemical Ecology

“ABC transporters play a central role in insect resistance to Bacillus thuringiensis toxins”

10:00–11:00

Wilhelm Boland - MPI for Chemical Ecology

“Factors controlling the composition of the microbiome of the agricultural pest Spodoptera littoralis”

Gabriela Olmedo Álvarez - Center for Research and Advanced Studies (CINVESTAV)

“TBC”

11:00–11:30

Break

11:30–12:30

Computational
Sciences

Humberto Salazar Ibarguen - Mexican Supercomputing Network

“TBD”

Stefan Heinzl - MPI Data y Computation Facility

“Towards Exascale Computing - A Challenge for the Application Science Community”

12:30–13:30

Closing Ceremony

February 27 – March 1, Mexico City

Auditorio Jaime Torres Bodet - Museo Nacional de Antropología