



30th ANNIVERSARY

DEPARTMENT OF INFECTOMICS AND MOLECULAR PATHOGENESIS (DIPM)



PROGRAMME

(All events taking place virtually)

Opening session: Wednesday - November 04, 2020 (Talks in Spanish)

Presenter: Abigail Betanzos Fernández and Ana Lorena Gutiérrez Escolano (DIPM Professors)

Official inauguration

- 11:00-11:10 José Mustre de León
(General Director of CINVESTAV)
- 11:10-11:20 Gabriel López Castro
(Academic Secretary of CINVESTAV)
- 11:20-11:30 Martha Espinosa Cantellano
(Planning Secretary of CINVESTAV)



Foundation of the Department

- 11:30-11:55 Adolfo Martínez-Palomo (DIPM Emeritus Professor)
- 11:55-12:00 Questions with speaker



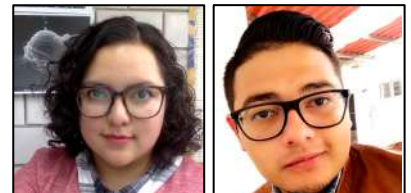
DIPM overview from the perspective of an Emeritus Professor

- 12:00-12:25 Esther Orozco Orozco (DIPM Emeritus Professor)
- 12:25-12:30 Questions with speaker



DIPM overview from the perspective of the Department's Students

- 12:30-12:55 Sarahí Rodríguez Cruz and Selvin Noe Palacios Rápalo
- 12:55-13:00 Questions with speakers



DIPM overview from the perspective of the Head of the Department

- 13:00-13:25 Rosa Ma. Del Ángel Núñez (Chief of DIPM)
- 13:25-13:30 Questions with speaker



Topic I: Parasites. November 11-12, 2020

Wednesday - November 11

10:00-10:45 **Labib Rouhana PhD** - Wright State University, USA
“Genetic analysis of sexual reproduction in Platyhelminthes using planarian flatworms”
Presenter: Patricia Talamás Rohana (DIPM Professor)



10:45-10:50 Questions with speaker

10:50-11:35 **David Mirelman PhD** - Weizmann Institute of Science, Israel
“A retrospective view of *Entamoeba histolytica* research from 1980 to 2010”
Presenter: Esther Orozco Orozco (DIPM Emeritus Professor)



11:35-11:40 Questions with speaker

11:40-12:10 **Elizbeth Álvarez Sánchez PhD** – UACM, México – DIPM graduate
“A new mechanism of transcriptional regulation mediated by Zn²⁺ in *Trichomonas vaginalis*” (Talk in Spanish)
Presenter: Rossana Arroyo Verástegui (DIPM Professor)



12:10-12:15 Questions with speaker

Thursday - November 12

10:00-10:45 **Ariel Mariano Silber PhD**- University of São Paulo, Brazil
Proline, a “metabolic penknife” for the dangerous lifestyle of *Trypanosoma cruzi*
Presenter: Abigail Betanzos Fernández (DIPM Professor)



10:45-10:50 Questions with speaker

10:50-11:35 **Anjan Debnath PhD** - University of California, San Diego, USA
“Drug discovery for primary amoebic meningoencephalitis: From screen to identification of leads”
Presenter: Mineko Shibayama Salas (DIPM Professor)



11:35-11:40 Questions with speaker

11:40-12:10 **Yunuén Ávalos Padilla PhD**- Institute for Bioengineering of Catalonia, Spain – DIPM graduate
“Use of nanomedicine against Malaria: current strategies for an ancient disease” (Talk in Spanish)
Presenter: Abigail Betanzos Fernández (DIPM Professor)



12:10-12:15 Questions with speaker

Topic II: Virus. November 18-19, 2020

Wednesday - November 18

10:00-10:45 **Flor H Pujol PhD** – Instituto Venezolano de Investigaciones Científicas
“Hepatitis virus and human immunodeficiency in Latin American indigenous communities: fortuitous or long data relationships” (Talk in Spanish)

Presenter: Juan Ludert León (DIPM Professor)

10:45-10:50 Questions with speaker

10:50-11:35 **Arturo Reyes Sandoval PhD** – University of Oxford, UK
“Recombinant adenoviruses as vaccines for Chikungunya and Mayaro”

Presenter: Lorena Gutiérrez Escolano (DIPM Professor)

11:35-11:40 Questions with speaker



Thursday - November 19

10:00-10:45 **Vincent Racaniello PhD** – Columbia University, USA
“Pending title”

Presenter: Rosa Ma. Del Angel (DIPM Professor)

10:45-10:50 Questions with speaker

10:50-11:35 **Jorge Reyes del Valle MD PhD** – RNA Replicon ITx Group, Janssen Research and Development, USA

“Viral vectors: since conceptual creation to practical adoption”

Presenter: Rosa María del Angel (DIPM Professor)

11:35-11:40 Questions with speaker



Topic III: Chronic-degenerative diseases. November 25-26, 2020

Wednesday - November 25

10:00-10:45 **Arturo Panduro Cerda PhD** – Universidad de Guadalajara, Mexico
“Personalized medicine to prevent and treat Obesity, Diabetes type 2 and Non-Alcoholic Steatohepatitis (NASH)”

Presenter: Víctor Tsutsumi Fujiyoshi (DIPM Professor)

10:45-10:50 Questions with speaker

10:50-11:35 **Wanderley De Souza PhD** – Federal University of Rio de Janeiro, Brazil



“Mechanisms used by parasitic protists to penetrate into host cells”

Presenter: Adolfo Martínez Palomo (DIPM Emeritus Professor)

11:35-11:40 Questions with speaker



Thursday - November 26

10:00-10:30 **Ramón Ocádiz PhD** – Michigan University, USA – DIPM Graduate

“Transcriptional factors as therapeutics targets in cancer”

Presenter: Mario Rodríguez Rodríguez (DIPM Professor)

10:30-10:35 Questions with speaker



10:35-11:05 **Abel Trujillo Ocampo PhD** - The University of Texas M. D. Anderson Cancer Center, USA - DIPM Graduate

“Investigating cord-derived human invariant Natural Killer T cells as potential immune-regulators to prevent graft versus host disease”

Presenter: Fidel de la Cruz Hernández (DIPM Professor)

11:05-11:10 Questions with speaker



Topic IV: Mucosal Immunology and Vectors. December 02-03, 2020

Wednesday – December 02

10:00-10:45 **Shokrollah Elahi PhD** – University of Alberta, Canada

“The interaction between immune system and microbiota in early life”

Presenter: Marco Vega López (DIPM Professor)

10:45-10:50 Questions with speaker



10:50-11:35 **Volker Gerdts PhD** – University of Saskatchewan, Canada

“Covid-19 vaccine research at VIDO-InterVac in Canada”

Presenter: Marco Vega López (DIPM Professor)

11:35-11:40 Questions with speaker



Thursday – December 03

10:00-10:45 **Marcelo Jacobs-Lorena PhD** - Johns Hopkins University, USA

“Molecular basis for anopheline mosquito swarming and mating”

Presenter: Fidel de la Cruz Hernández (DIPM Professor)

10:45-10:50 Questions with speaker



- 10:50-11:20 **Rebeca Carballar PhD** – University of California, Irvine, USA –
DIPM Graduate
“Population modification of mosquitoes for Malaria control”
Presenter: Fidel de la Cruz Hernández (DIPM Professor)
- 11:20-11:25 Questions with speaker



Discussion Forum: December 09, 2020

- 10:00-11:30 **Past, Present and Future of DIPM**
Moderators: Bibiana Chávez Munguía and Víctor Tsutsumi Fujiyoshi (DIPM Professors)

Participating DIPM graduates:

1. Cecilia Bañuelos Barrón PhD (2002 - 2009)
Titular Professor, DCTS Program, CINVESTAV
2. Ángel Ramos Ligonio PhD (1997 - 2005)
Researcher Professor, Facultad de Ciencias Químicas, Universidad Veracruzana
3. Sofía Lizeth Alcaraz Estrada PhD (2006 - 2011)
Head of the Genomics Medicine Division, CMN 20 Noviembre, ISSSTE
4. Rosa Martha Eugenia Yocupicio Monroy (1997 - 2003)
Researcher Professor, UACM
5. Alfredo Toledo Leyva PhD (2013 - 2017)
Biomedical Researcher, Instituto Nacional de Cancerología
6. Julio César Torres Romero PhD (2007 - 2010)
Researcher Professor, Investigación en Ciencias Biomédicas, Universidad Autónoma de Yucatán



- 11:30-12:00 **Concluding remarks**
Moderators: Bibiana Chávez Munguía and Víctor Tsutsumi Fujiyoshi (DIPM Professors)

12:00-12:15 **Closing ceremony**

Rosa Ma. Del Ángel (Head of Department)

Organizing Committee:

Dr. Abigail Betanzos Fernández (abetanzos@cinvestav.mx)

Dr. Lorena Gutiérrez Escolano (alonso@cinvestav.mx)

Dr. Bibiana Chávez Munguía (bchavez@cinvestav.mx)

M. Sc. Karla Berenice Acosta Virgen (kbacosta@cinvestav.mx)

M. Sc. Yoatzin Peñaflor Téllez (yoatzin.penaflor@cinvestav.mx)

Official site:

<https://infectomics.cinvestav.mx>

Streaming available on:

<https://www.youtube.com/c/CinvestavOficial>

Social media:

<https://www.facebook.com/Cinvestav1/>

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