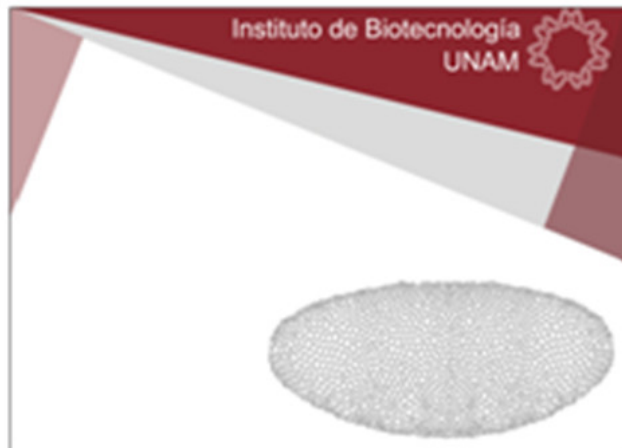




3rd MEXFLY Meeting
Auditorio Francisco Bolívar.
INSTITUTO DE BIOTECNOLOGÍA,
UNIVERSIDAD NACIONAL AUTONOMA
DE MEXICO.
Nov. 15-16, 2018.



3rd MEXFLY Meeting
Auditorio Francisco Bolívar.
INSTITUTO DE BIOTECNOLOGÍA,
UNIVERSIDAD NACIONAL AUTONOMA
DE MEXICO.
Nov. 15-16, 2018.

Program:

Thursday Nov. 15

15:00- 16:00 Registration (Auditorio Fco. Bolivar)

Chair Mario Zurita

16:00-16:15 Introduction Mario Zurita,
Instituto de Biotecnología

16:15-17:15 Plenary Speaker 1 Dale Dorsett,
Saint Louis University, School of Medicine.

**Cohesin, enhancers, and DNA replication
origins: a nexus for genome stability and gene
regulation.**

17:15-18:00 Meet and greet (refreshments)

18:00 Dinner on your own.

Friday Nov. 16

8.30-9:00 Poster setup

9:00- 9:10 Introduction/Chair Marcos Nahmad, CINVESTAV/México

9:10- 9:30 Nestor Nazario Yepiz. LANGEBIO-CINVESTAV.

Developmental and transcriptional responses to seasonal dietary shift in *Drosophila mojavensis*

9:30-9:50 Marcela Cárdenas Tueme, Universidad Autonoma de Nuevo León.

Neuropathological aggregation of polyglutamine expansion in human TATA-binding protein in Spinocerebellar ataxia 17 modelled in *Drosophila melanogaster*

9:50-10:10 Ana Karen Hernández Gallardo. CINVESTAV/MEXICO.

Ex vivo imaging of *Drosophila melanogaster* ferritin assembly.

10:10-10:30 Luis Manuel Muñoz Nava, CINVESTAV/MEXICO.

Cell recruitment drives growth of the *Drosophila* wing by overscaling the Vestigial expression pattern.

10:30-11:00 Coffe Break

11:00-1110 Introduction/Chair Juan Riesgo Escobar, Instituto de Neurobiología UNAM

11:00-11:30 Marco Antonio Rosales, Instituto de Biotecnología, UNAM.

The role of the trithorax group TnaA isoforms in Hox gene expression, and in *Drosophila* late development

11:30- 11:50 María Luisa Moreno Félix, CINVESTAV/IRAPUATO.

Comparing tissue-specific genome topology in two *Drosophila* species

11:50 – 12:10 José Antoni Alonso. Facultad de Ciencias/UNAM.

What genetics owes to the fly in Mexico.

12:10 – 12:30 Fernando Rosales, Instituto de Biotecnología/UNAM.

Altered response of gustatory neurons to bitter tastes in mutants of escargot gene in *Drosophila melanogaster*

12:30 – 12:50 Contreras-Delgadillo CU. FES Iztacala/UNAM.

Activity and enzymes gene expression related with oxidative stress and xenobiotic metabolism in two strains of *Drosophila melanogaster*

13:00- 14:30 **Poster session**

14:30 – 15:30 **Lunch for all attendees.**

Chair Fanis Missirlis, CINVESTAV/México.

15:40 – 16:00 Alyeri Bucio, Instituto de Biotecnología/UNAM.

The Dmp8-Dmp18 bicistron mRNA and its unusual translation during cellular stress.

16:00- 16:20 Marycruz Flores Flores, CINVESTAV/México.

Enhancement of a polarity signal by a cell recruitment process in the *Drosophila* wing

16:20 – 16:40 Angel Carvajal Oliveros, Instituto de Biotecnología/UNAM

Nicotine effect in dopaminergic neurodegeneration induced by human α -Synuclein and Synphilin expression.

16:40- 17:00 Carlos Tejeda Guzmán, CINVESTAV/MEXICO.

Regulación del zinc a través de la comunicación entre el Cuerpo Graso y los Túbulos Malpighianos

17:00-17:15 **Short break**

17:15- 18:15 Chair Enrique Reynaud, Instituto de Biotecnología UNAM.

Plenary Speaker 2 Jorge Campusano, P. Universidad Católica de Chile.

Serotonina: ¿neurotransmisor y factor trófico en *Drosophila*?

18:15- 18:25 Closing Remarks Juan Riesgo, Instituto de Neurobiología.

Posters

1.- Alely Cecilia Villarreal Puente, Universidad Autónoma de Nuevo León.

Protein-protein interaction of Antp and Ubx Homeodomains in the genetic control of development in *D. melanogaster*

2.- Gustavo Jimenez Mejia. Universidad Autónoma de Nuevo León.

Trimeric interactions of homeoproteins with transcriptional factors of basal transcription machinery

3.- Ruben de Jesús Montalvo Méndez. Universidad Autónoma de Nuevo León.

Importance of Glutamine-rich regions in the interaction of Antennapedia-TATA-binding protein in *D. melanogaster*

4.- Alejandra García^{1,2}, Nancy Standart³, Paul Lasko⁴, Nahum Sonenberg⁵ and Greco Hernández¹.

1) Division of Basic Research, National Institute of Cancer (INCan), Mexico City, Mexico; 2) Facultad de Medicina, Universidad Nacional Autónoma de México, Mexico; 3) Department of Biochemistry, University of Cambridge; 4) Department of Biology, McGill University, Montreal, Quebec, Canada; 5) Department of Biochemistry and Goodman Cancer Research Center, McGill University, Montreal, Quebec, Canada.

Diverse eIF4E-Interacting Proteins regulate translation in *Drosophila*

5.- Jéssica Paloma Álvarez Rendón, Instituto de Neurobiología /UNAM

Characterization of metabolic defects in *Drosophila melanogaster* due to Insulin-signalling impairment

6.- Luis Alberto Hidalgo Chaires. Instituto de Neurobiología /UNAM

Characterization of amfos mutant alleles

7.- Elizabeth Díaz Torres. CINVESTAV/MEXICO
A mathematical model of growth control in the *Drosophila* wing

8.- Keity Farfán Pira. CINVESTAV/México.
Evolutionary perspective of the contribution of the recruitment process for the development of the *Drosophila* wing

9.- Leonardo Moreno. CINVESTAV/México.
Cystathionine β -synthase-deficient flies fail to respond to phototaxis: Towards a *Drosophila* model of homocystinuria

10.- Alba Yetlanezi Castillo Pineda. Instituto de Biotecnología/UNAM.

The escargot gene's role in chemosensory neurons and the courtship activity in *Drosophila melanogaster*

11.- Carmen Domínguez Baleón, Ángel Carvajal Oliveros, Enrique Reynaud Garza. Instituto de Biotecnología /UNAM.

Comparative analysis of α -synuclein expression level between transgenic *Drosophila* strains

12.- Estefanía De Allende, Instituto de Biotecnología/UNAM.

Olfactory alterations in a *Drosophila* Parkinson's disease model expressing α -synuclein

13.- Ivan Fernández Cruz, Instituto de Biotecnología/UNAM.

Role of proteasome subunit Rpt2 in a Parkinson's disease model

14.- Alfonso-Gonzalez, C and Juan Reiesgo. Instituto de Neurobiología/ UNAM.

Characterization of kayak (fos) isoforms in *Drosophila*

15.- Ximena Gutierrez. Instituto de Biotecnología/UNAM.

A comparative transcriptome analysis of *Anastrepha ludens* embryogenesis

16.- Adriana Hernandez. Instituto de Biotecnología/UNAM.

The role of the trithorax group protein TnaA in the ecdysone response in *Drosophila melanogaster*

17.- Silvia Meyer, Instituto de Biotecnología /UNAM.

Maintenance of Chromosome Structure by dAdd1 proteins

18.- José Andrés Niño Vargas, René Hernández, Vargas, Enrique Alejandro Reynaud Garza. Instituto de Biotecnología/UNAM.

The role of the rpn1 subunit of the 26S proteasome in a model of Parkinson's disease in *Drosophila melanogaster*

19.- Ponciano-Gómez JA, Sigrist-Flores SC, Jiménez-Flores JR, Piedra-Ibarra E, Heres-Pulido ME, Dueñas-García IE, Castañeda-Partida ML, Santos-Cruz LF. FES/Iztacala UNAM

Cytosol and mitochondria reactive oxygen species in two strains of *Drosophila melanogaster*

20.- Amada Torres¹, Rodrigo Arzate², Víctor Corces³, Mario Zurita¹ and Viviana Valadez¹

¹ Departamento de Genética del Desarrollo y Fisiología Molecular. Instituto de Biotecnología Universidad Nacional Autónoma de México Cuernavaca México.

² Genética Molecular, Instituto de fisiología Celular, Universidad Nacional Autónoma de México, Mexico

³ Department of Biology, Emory University, Atlanta, USA.

dAdd1 a new architectural protein

21.- Daniel Tapia Merino¹, Juan Rafael Riesgo Escovar², Dr. Achim Max Loske Mehling³

¹Licenciatura en Tecnología, Universidad Nacional Autónoma de México Campus Juriquilla, ²Instituto de Neurobiología. Universidad Nacional Autónoma de México Campus Juriquilla. ³Centro de Física Aplicada y Tecnología Avanzada. Universidad Nacional Autónoma de México Campus Juriquilla

Interacción de ondas de choque con embriones de *Drosophila melanogaster*.

22.- Ameyalli Gómez Ilescas. Instituto de Fisiología/UNAM

The role of CTCF in the central nervous system of *Drosophila melanogaster*

Agradecemos a la Coordinación de la Investigación Científica de la Universidad Nacional Autónoma de México el apoyo para realizar este evento.