



**SOCIEDAD MEXICANA PARA LA INVESTIGACIÓN EN  
CÉLULAS TRONCALES**

**PROGRAMA / PROGRAM**

**CUARTO CONGRESO DE CÉLULAS TRONCALES Y  
MEDICINA REGENERATIVA**

**FOURTH MEETING ON STEM CELLS AND  
REGENERATIVE MEDICINE**

**QUERÉTARO, MÉXICO  
Octubre / October 25-28, 2017**





## Octubre / October 25, 2017

- 08:45 – 09:00 Inauguración / Opening remarks, Iván Velasco.
- 09:00– 10:00 **TRANSCRIPTIONAL MECHANISMS PROMOTING DIFFERENTIATION WHILE PRESERVING POTENCY IN EMBRYONIC STEM CELLS – ENABLING PLASTICITY**  
Joshua Brickman, Danstem, Denmark.  
*Moderador / Moderator: Fabián Díaz.*
- 10:00 – 10:15 Café / Coffee
- 10:15 – 12:00 Simposio / Symposium 1: Células troncales ectodermales / Ectodermal stem cells  
*Moderador / Moderator: Anayansi Molina-Hernández.*
- DISSECTING THE ROLE OF POLYCOMB IN THE CONTROL OF EPIDERMAL STEM CELL DIFFERENTIATION**  
Julián Valdés, Instituto de Fisiología Celular, UNAM.
- NEUROGENESIS INDUCED BY SEXUAL BEHAVIOR ON DIFFERENT REPRODUCTIVE STRATEGIES IN MALES**  
Wendy Portillo, Instituto de Neurobiología, UNAM.
- MODELING C9ORF72 REPEAT EXPANSION PATHOGENESIS USING INDUCED PLURIPOTENT STEM CELLS (iPSC)-DERIVED HUMAN NEURONS**  
Rodrigo López-González, University of Massachusetts, USA.
- 12:00 – 13:00 **HOW EXPERIENCE SHAPES THE INTEGRATION OF NEW NEURONS IN THE ADULT HIPPOCAMPUS**  
Alejandro Schinder, Instituto Leloir, Argentina.  
*Moderador / Moderator: Wendy Portillo.*
- 13:00 – 14:30 Tiempo para comida (no incluida) / Lunch on your own
- 14:30 – 16:45 Posters # 1-37, Salón / Hall *Capilla*.
- 16:45 – 17:00 Café / Coffee



17:00 – 18:00 **THE STEM CELL DARK ECONOMY**  
Douglas Sipp, RIKEN, Japan.  
*Moderador / Moderator: Marichuy Medina-Arellano.*

**Octubre / October 26, 2017**

- 09:00– 10:00 **GENE REGULATORY CONTROL OF NEURAL CREST DEVELOPMENT**  
Marianne Bronner, Caltech, USA.  
*Moderador / Moderator: Diana Escalante-Alcalde.*
- 10:00 -10:15 Café / Coffee
- 10:15 – 12:00 Simposio / Symposium 2: Células troncales hematopoyéticas / Hematopoietic stem cells.  
*Moderador / Moderator: Antonieta Chávez-González.*
- MODELING PEDIATRIC ACUTE MYELOID LEUKEMIA IN HUMAN PLURIPOTENT STEM CELLS**  
Verónica Ramos-Mejía, Centro GENYO, Granada, España.
- GENOMIC AND FUNCTIONAL INTEGRITY OF HEMATOPOIETIC STEM AND PROGENITOR CELLS GENERATED *IN VITRO* FROM HUMAN CORD BLOOD**  
Héctor Mayani, Centro Médico Nacional Siglo XXI, IMSS.
- MODELING THE MICROENVIRONMENTAL REGULATION OF HEMATOPOIETIC STEM CELL FATES IN HUMAN LEUKEMIA**  
Rosana Pelayo, Centro de Investigación Biomédica de Oriente, IMSS.
- 12:00 – 13:00 **TARGETING LEUKEMIA STEM CELLS**  
Mónica Guzmán, Weill Cornell Medical College, USA.  
*Moderador / Moderator: Marco A. Velasco-Velázquez.*
- 13:00 – 14:30 Tiempo para comida (no incluida) / Lunch on your own



14:30 – 16:45 Posters # 38-76, Salón / Hall *Capilla*.

16:45 – 17:00 Café / Coffee

17:00 – 18:30 Mesas de trabajo y discusión / Roundtables for discussion

### Octubre / October 27, 2017

09:00– 10:00 **MOLECULAR MECHANISMS FOR ASSEMBLING AND RESOLVING HUMAN NAÏVE PLURIPOTENCY**

Jacob Hanna, Weissman Institute, Israel.

*Moderador / Moderator: Mónica Lamas.*

10:00 – 10:15 Café / Coffee

10:15 – 10:45 Presentación del libro / Book presentation “Células Troncales: Biología y Aplicaciones en Biomedicina”.  
Eugenia Flores-Figueroa, Manuel Grañén, Mónica Guzmán, Mónica Lamas.

10:45 – 13:00 Simposio / Symposium 3: Nichos y regeneración / Niches and regeneration.

*Moderador / Moderator: Juan José Montesinos.*

**UNRAVELING THE ROLE OF RETINOBLASTOMA-RELATED IN STEM CELL MAINTENANCE AND ASYMMETRIC CELL DIVISION ALONG LAND PLANT PHYLOGENY**

Alfredo Cruz-Ramírez, Langebio, Cinvestav, Irapuato.

**HEMATOPOIETIC STEM CELLS AND THEIR NICHES IN HOMEOSTASIS, AGING AND LEUKEMIA**

Eugenia Flores-Figueroa, Centro Médico Nacional Siglo XXI, IMSS.

**STEM CELL SENEESCENCE DRIVES AGE-ATTENUATED INDUCTION OF PITUITARY TUMOURS IN MOUSE MODELS OF PAEDIATRIC CRANIOPHARYNGIOMA**

José Mario González-Meljem, Instituto Nacional de Geriátría, Secretaría de Salud.



**FROM THE LABORATORY TO THE OPERATING ROOM: USE OF *EX-VIVO* EXPANDED LIMBAL STEM CELLS IN THE RECONSTRUCTION OF THE OCULAR SURFACE**

Enrique Salero-Coca, Bascom Palmer Eye Institute, University of Miami, USA.

13:00 – 14:30 Tiempo para comida (no incluida) / Lunch on your own

14:30 – 16:00 Presentación oral de trabajos seleccionados / Short oral presentations selected from the submitted abstracts.  
*Moderador / Moderator: Jesús Santa-Olalla Tapia.*

**ANALYSIS OF PLURIPOTENCY-RELATED GENES BY THE EFFECT OF EPIGENETIC DRUGS IN HUMAN SOMATIC CELLS**

Alain Jesús Aguirre Vázquez, Instituto Potosino de Investigación Científica y Tecnológica.

**A NOVEL BONE MARROW ORGANOID-LIKE CO-CULTURE SYSTEM CAN MAINTAIN LEUKEMIA-INITIATING CELLS FROM ACUTE LYMPHOBLASTIC LEUKEMIA**

Juan Carlos Balandrán Juárez, Centro de Investigación Biomédica de Oriente, IMSS

**EFFECT OF MOLECULAR IODINE IN MAMMOSPHERE CULTURE OF BREAST CANCER CELLS**

Gabriel Miguel Rodríguez Gómez, Instituto de Neurobiología, UNAM

**CD49f ANTAGONISTS REDUCE STEMNESS IN MDA-MB-231 BREAST CANCER CELLS**

Diana Casique Aguirre, Facultad de Medicina, UNAM

**OLFACTORY IMPAIRMENT AND ABNORMAL OLFACTORY BULB VENTRICLE REMODELING IN PLPP3-DEFICIENT MICE**

José Rivera Álvarez, Instituto de Fisiología Celular, UNAM

**ACELERACIÓN DE LA CICATRIZACIÓN GINGIVAL TRAS CIRUGÍA PERIDONTAL RESECTIVA MEDIANTE QUERATINOCITOS ALOGÉNICOS CRIOPRESERVADOS**

Elisa Tamariz, Universidad Veracruzana



- 16:00 – 17:00      **DIRECTING NEURONAL AND GLIAL FATES IN HUMAN PLURIPOTENT STEM CELLS: FROM SPECIFICATION TOWARDS CLINICAL TRANSLATION**  
Lorenz Studer, Memorial Sloan Kettering Cancer Center, USA.  
*Moderador / Moderator: Iván Velasco.*
- 17:00 -18:00      Mesas de trabajo y discusión / Roundtables for discussion
- 18:00 - 18:15      Clausura / Closing remarks, Antonieta Chávez-González
- 20:00 - 24:00      Cena de clausura incluida con la inscripción / Closing dinner included with registration