



**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