

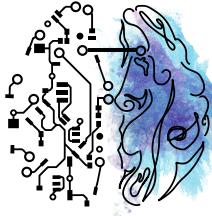


*Neurobiology Meeting of the
Mexican Society for Biochemistry
April 3 – 7, Oaxaca, México*

PROGRAM

2022





Sociedad Mexicana
de Bioquímica
Neurobiología



PROGRAM

IV Neurobiology Meeting of the Mexican Society for Biochemistry

***Mision de los Angeles Hotel, Oaxaca City, Oaxaca, México
April 3-7, 2022***

Organizing Committee:

Leonor Pérez Martínez, Instituto de Biotecnología, UNAM in Cuernavaca.
Yazmín Macotela, Instituto de Neurobiología, UNAM in Querétaro.
Oscar Galicia, Departamento de Psicología, Universidad Iberoamericana in Mexico City.
Oscar Zamora, Facultad de Psicología, UNAM in Mexico City.
Arturo Ortega, Cinvestav, IPN in Mexico City.
Gustavo Pedraza, Instituto de Biotecnología, UNAM in Cuernavaca.
Iván Velasco, Instituto de Fisiología Celular, UNAM and Instituto Nacional de Neurología y Neurocirugía in Mexico City.

SUNDAY, APRIL 3

Pre-Meeting course Organoids and single-cell sequencing in Neuroscience

Organizers: Dr. Leonor Pérez-Martínez / Dr. Iván Velasco
Instituto de Biotecnología, UNAM / Instituto de Fisiología Celular, UNAM and Instituto Nacional de Neurología y Neurocirugía.



9:00-10: 00 *Computational methods used for single-cell sequencing of brain cells*

Dr. Jiaqian Wu / Dr. Raquel Cuevas-Díaz Durán

The University of Texas Health Science Center at Houston, MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, USA / Tecnológico de Monterrey, Monterrey, México

10:00-11:00 *Building multilevel atlases one cell at a time using patch-seq technology*

Dr. Violeta Lopez-Huerta

Instituto de Fisiología Celular, UNAM, Mexico City

11:00-11:30 *Coffee break*

11:30-12:30 *Understanding the nervous system of *C. elegans* one neuron at a time*

Dr. Julián Valdés

Instituto de Fisiología Celular, UNAM, Mexico City

12:30-13:30 *Reactive astrocyte heterogeneity in inflammation and neurodegenerative disease*

Dr. Shane A. Liddelow

Neuroscience Institute, NYU Grossman School of Medicine, New York, NY, USA.

13:30-14:30

Lunch

14:30–15:30 *Modeling human brain development and disorders using brain organoids*

Dr. Zhxing Wen

Emory University School of Medicine, Atlanta, GA, USA

15:30–16:15 *Round table*

Open House for the public / Día de Puertas Abiertas

Chair: Dr. Gustavo Pedraza
Instituto de Biotecnología, UNAM



0



- 11:00-11:30 *De vacas y vacunas. La historia de cómo los humanos logramos domesticar a las pandemias***

Dra. Karla F. Meza Sosa
Instituto de Biotecnología, UNAM

- 11:30-12:00 *¿Cómo puede dañar la COVID-19 a tu cerebro?***

Dr. Juan Carlos González-Orozco
Instituto de Fisiología Celular, UNAM

- 12:00-12:30 *Generación de nuevas neuronas en el cerebro de adultos ¿Qué son las células troncales neurales?***

Dra. Itzel Escobedo Ávila
Instituto de Fisiología Celular, UNAM

- 12:30-13:00 *Diferentes acercamientos para estudiar la conducta animal***

Dra. Citlalli Netzahualcoyotzi Piedra
Instituto de Fisiología Celular, UNAM

- 13:00-13:30 *Alexa, ¿van a destruirnos los robots? Presente y futuro de la inteligencia artificial***

Dr. David Valle García
Instituto de Biotecnología, UNAM

- 13:30-14:00 *Todo lo que querías saber sobre la marihuana pero temías preguntar***

Dr. Oscar Galicia
Universidad Iberoamericana, Ciudad de México

SUNDAY, APRIL 3

IV Neurobiology Meeting

17:45-18:00

Welcome ceremony

18:00-19:00

Opening Talk



"What do reactive astrocytes (really) do?"

Dr. Shane A. Liddelow

Neuroscience Institute, NYU Grossman School of Medicine, New York, NY, USA

Chair: Dr. Leonor Pérez-Martínez
Instituto de Biotecnología, UNAM

19:00

Welcome cocktail

MONDAY, APRIL 4



9:00-11:00

Symposium I

EPIGENETICS, GENE REGULATION AND NEURODEVELOPMENTAL DISEASES

Chair: Dr. Leonor Pérez-Martínez
Instituto de Biotecnología, UNAM

Environmental effects on C. elegans behavior, from hiperglycemia to starvation

Dr. Julián Valdés

Instituto de Fisiología Celular, UNAM, México

Dynamic landscape of chromatin accessibility and transcriptomic changes during differentiation of human embryonic stem cells into dopaminergic neurons

Dr. Raquel Cuevas-Díaz Durán

Tecnológico de Monterrey, Monterrey, México

In vivo gene editing to study neurodevelopmental disorders

Dr. Violeta Lopez-Huerta

Instituto de Fisiología Celular, UNAM, México

Modeling Fragile X syndrome with 3D human brain organoids

Dr. Zhexing Wen

Emory University School of Medicine, Atlanta, GA, USA

11:00 – 11:20

Mapeo neuronal en 3D a alta velocidad. Technical presentation

I.Q. Alejandro Olvera

Product Application & Sales Support Team. CARL ZEISS.

11:20 – 11:40

Coffee break

11:40 – 12:40

Plenary Lecture I



Integrative study of gene expression and transcriptional regulation in the CNS

Dr. Jiaqian Wu

The University of Texas Health Science Center at Houston / MD Anderson Cancer Center,
Houston, USA

Chair: Dr. Iván Velasco
Instituto de Fisiología Celular, UNAM

12:40–13:40

Four oral presentations selected from the abstracts I

Chair: Dr. Oscar Zamora
Facultad de Psicología, UNAM, Mexico City

Peroxiredoxin 5 overexpression decreases oxidative stress and dopaminergic cell death in a Parkinson's Disease cellular model

Ana Patricia Duarte Jurado

Facultad de Medicina. Universidad Autónoma de Nuevo León

Social support and cognitive function in people living with HIV

Enrique Berra Ruiz

Facultad de Ciencias de la Salud. Universidad Autónoma de Baja California

Proteogenomic of Primary Brain Tumors Using Liquid Biopsies, for Diagnosis and Precision Medicine

María del Carmen Abrahantes Pérez

Laboratorio de Oncología Traslacional de Precisión. Instituto Nacional de Medicina Genómica

Stabilization of basal dopamine in inorganic nanoreservoirs for controlled delivery in Parkinson's disease

Francisco J. Padilla-Godínez

Instituto de Fisiología Celular, UNAM. / UAM - Xochimilco

13:40 -15:00

Lunch



15:00–17:00

Symposium II

BEHAVIOR AND PHARMACOLOGY

Chair: Dr. Oscar Galicia

Departamento de Psicología, Universidad Iberoamericana, Mexico City

The role of neuropeptides in social behavior and reproduction in ants

Dr. Ingrid Fetter-Pruneda

Instituto de Investigaciones Biomédicas, UNAM, Mexico City

Endocannabinoids in juvenile stages of development modulate gene expression changes that affect learning and time perception

Dr. Mario Buenrostro Jauregui

Departamento de Psicología. Universidad Iberoamericana, Mexico City

Genome-wide detection of transcriptional determinants of neurological decline

Dr. Humberto Gutiérrez

Instituto Nacional de Medicina Genómica, Secretaría de Salud, Mexico City

Prepronociceptin-expressing neurons in the extended amygdala signal darting away from an aversive odor

Dr. Jose Rodríguez-Romaguera

The University of North Carolina at Chapel Hill, USA

17:00 – 17:05

1 min talks for poster advertisings

Chair: Dr. Arturo Ortega

Cinvestav, México City

Striatal Cholinergic Interneurons Contribute to Specific Behavioral Updates in a Classical Conditioning Task

Hector Alatriste-León

Instituto de Fisiología Celular, UNAM

Light and temperature cycles as zeitgebers in the circadian locomotor activity rhythm of the snake Crotalus molossus

Angel Bernardo Villarreal Medina

Instituto de Biología, UNAM

Evaluation of Superoxide dismutase enzyme activity in the prefrontal cortex of neonatal rats subjected to postnatal stress

Dennis Paniagua Camacho

Centro de Investigación Biomédica del Noreste. IMSS

Exogenous hydrogen sulfide improves hypertension induced by traumatic brain injury in rats through vasopressor sympathetic outflow inhibition and H2S-synthesizing enzymes restoration

Saúl Huerta de la Cruz

Departamento de Farmacobiología. Cinvestav Sede Sur

Analysis of density and distribution of astrocytes and microglial cells at the hippocampal formation of autistic-like C58/J mice.

Carlos Noé Vázquez-Moreno

Instituto de Investigaciones Biomédicas, UNAM

17:05 – 19:00

Poster Session I (Even numbers)

TUESDAY, APRIL 5



9:00 – 11:50

Symposium III

NEUROIMMUNE INTERACTIONS

Chair: Dr. Yazmín Macotela
Instituto de Neurobiología, UNAM, México

Maternal microbiome modulation of brain development processes

Dr. Helen Vuong
University of California Los Angeles, USA

Microbiota-gut-brain axis and behavior across the lifespan

Dr. Livia Hecke Morais
California Institute of Technology, USA

Gut Microbiome neuroactive compounds in children from an Indigenous Me'phaa community and Mexico City

Dr. Isaac González Santoyo
Facultad de Psicología, UNAM

10:30 – 10:50

Coffee break

Neuronal regulation of lung infection and pulmonary defense

Dr. Pankaj Baral
Kansas State University, USA

Neuroimmune interactions during experimental pulmonary tuberculosis

Dr. Rogelio Hernández-Pando
Instituto Nacional de Ciencias Médicas y Nutrición "Salvador Zubirán", Mexico City

11:50 – 12:10 Technical presentation

Líneas Celulares autenticadas como herramientas para las Neurociencias / Authenticated Cell Lines as a Tool for Neurosciences Research
M. en C. Francisco Calderón Estrella. CIENTÍFICA SENNA

12.10 – 13:10

Plenary Lecture II



Microbiota and neuroimmune interactions in gut homeostasis and CNS inflammation

Dr. Dan R. Littman,
Skirball Institute, USA

Chair: Dr. Gustavo Pedraza
Instituto de Biotecnología, UNAM, México

13:10 - 14:30

Lunch

14:30–15:30

Four oral presentations selected from the abstracts II

Chair: Dr. Oscar Zamora
Facultad de Psicología, UNAM, Mexico City

Transcriptional adaptive responses to ischemia linked to DNA methylation in astrocytes
Luis B. Tovar-y-Romo
Instituto de Fisiología Celular. UNAM

Characterization of layer 5 sensorimotor cortex neurons projecting to red nucleus and pons
Verónica López Virgen
Instituto de Neurobiología. UNAM

Spinal a6GABA_A receptor activation induces antinociception under physiological and pathological conditions
Erick J. Rodríguez-Palma
Departamento de Farmacobiología. Cinvestav Sede Sur

An enriched environment restores metabolic homeostasis by reducing inflammation in the adipose tissue and hypothalamus of obese mice
María del Sol Diaz de Leon Guerrero
Instituto de Biotecnología.



15:30 – 17:30

Symposium IV

GLIAL CELLS IN HEALTH AND DISEASE

Chair: Dr. Arturo Ortega
Cinvestav, México City

Glutamate transporters: non-traditional roles in CNS myelination

Dr. Babette Fuss
Virginia Commonwealth University, USA

A functional signature in the developing cerebellum: evidence from a preclinical model of autism

Dr. Daniel Reyes-Haro
Instituto de Neurobiología, UNAM campus Juriquilla, México

Modulation of Tissue Injury and Repair by Microglia During Autoimmunity

Dr. Astrid Cardona
University of Texas, San Antonio, TX, USA

Astrocytes in aging: The case of the aryl hydrocarbon receptor and neurodegeneration

Dr. Mónica Torres Ramos
Instituto Nacional de Neurología y Neurocirugía, Mexico City

17:30 – 17:35

1 min talks for poster advertisings

Chair: Dr. Oscar Galicia
Departamento de Psicología, Universidad Iberoamericana, Mexico City

The Suprachiasmatic nucleus controls sleep delay-induced hyperglycemia.

Gabriela Hurtado-Alvarado
Instituto de Investigaciones Biomédicas. UNAM

Maternal immune activation impairs morphophysiological properties of CA1 pyramidal neurons from dorsal hippocampus of the offspring

Ernesto Griego Melo
Departamento de Farmacobiología. Cinvestav Sede Sur

Analysis and comparison of protein content of serum derived exosomes obtained from patients with Major Depressive Disorder (MDD): responders versus non-responders to pharmacological treatment

Diana Gutierrez Buenabad

Instituto Nacional de Psiquiatría “Ramón de la Fuente Muñiz”. Facultad de Psicología. UNAM

Sympathoadrenomedullar system mediates anti-inflammatory and glycemic reflex to endotoxin

Esteban Santacruz-Martínez

Instituto de Investigaciones Biomédicas. UNAM

In Vivo Transfection in a Murine Model of Tubulinopathy

Diego Carmona Montiel

Departamento de Ingeniería Química, Electrónica y Biomédica. Universidad de Guanajuato

17:35 – 19:30

Poster Session II (Odd numbers)

19:30-20:00

Having a beer with the speakers

WEDNESDAY, APRIL 6

9:00 – 12:00

Free time

12:00 – 13:00

Four oral presentations selected from the abstracts III

Chair: Dr. Yazmín Macotela

Instituto de Neurobiología, Querétaro, Mexico.

Neurotoxicity induced by methylmercury in an in vitro model and its relationship with the development of Alzheimer's disease.

Angela Alvarez Dominguez

Universidad Autónoma de San Luis Potosí

Chronic copper exposure as an in vivo model of non-genetic Parkinson's disease

Alfredo González Alcocer

Facultad de Medicina. Universidad Autónoma de Nuevo León

Changes in the number and morphology of dendritic spines in the hippocampus and prefrontal cortex of the C58/J mouse model of autism

Isabel Barón Mendoza

Instituto de Investigaciones Biomédicas. UNAM

Putative single nucleotide polymorphisms associated with Alzheimer's disease by artificial intelligence strategy

Erick Cuevas Fernández

Universidad Autónoma del Estado de Morelos

13:00 – 14:00

Plenary Lecture III



Transgenerational inheritance of epigenetic signatures in mice

Dr. Yuta Takahashi
The Salk Institute, San Diego, CA, USA

Chair: Dr. Leonor Pérez-Martínez
Instituto de Biotecnología, UNAM

14:00 - 15:30

Lunch



15:30 – 17:30

Symposium V

THE SCIENTIFIC LEGACY OF LATE PROFESSOR RICARDO TAPIA

Chair: Dr. Lourdes Massieu / Dr. Clorinda Arias
Instituto de Fisiología Celular / Instituto de Investigaciones Biomedicas, Mexico City

Ricardo Tapia. A pioneer of Neurochemistry in Mexico

Dr. Lourdes Massieu
Instituto de Fisiología Celular, UNAM, Mexico City

Non-canonical gating control by the cytoplasmic T1 domain of Kv channels

Dr. Manuel Covarrubias
Thomas Jefferson University, Philadelphia, USA.

Electrophysiological biomarkers of epileptogenesis: new insights about its utility in the neurobiology of the hippocampus and clinic

Dr. Laura Medina-Ceja

Universidad de Guadalajara, Mexico

17:30 – 18:30

Closure Lecture



Death after a long journey; how local circuit neurons adjust their numbers

Dr. Arturo Álvarez-Buylla

University of California San Francisco, USA

Chair: Dr. Yazmín Macotela
Instituto de Neurobiología, UNAM

18:30 - 18:40

Closing Ceremony

19:00 – 20:00

Business Meeting

20:30 -

Farewell Dinner

THURSDAY, APRIL 7

9:00 - 11:00

Breakfast

12:00

Departure



Poster Sessions



Posters Session I Even numbers

Monday April 4. 17:05 – 19:00

COGNITION & BEHAVIOR

2	<i>Striatal Cholinergic Interneurons Contribute to Specific Behavioral Updates in a Classical Conditioning Task</i> Hector Alatriste-León. Cellular Physiology Institute. UNAM
4	<i>Early behavioral characterization of the murine model of autism induced by valproic acid</i> Noé Samuel Bravo Rivero. Facultad de Psicología, SUA, UNAM
6	<i>Short-memory dysfunction induced by haloperidol in the thalamic reticular nucleus in the rat</i> Christian A Evangelista Arzate. Escuela Nacional de Ciencias Biológicas. I.P.N.
8	<i>Perception of regular and irregular stimuli in single trials in humans</i> Marina Fuentes Dávila. Instituto de Neurobiología, UNAM
10	<i>Lateral habenula participation during aversive sugar memory formation, as well as after flavor familiarization</i> Jocelyn Lucero Lomeli-Castillo. Instituto de Neurobiología, UNAM
12	<i>Establishing the link between Speech-to-speech Synchrony and General Auditory-Motor synchronization skills</i> Cecilia Mares. Instituto de Neurobiología, UNAM
14	<i>Effect of High-fat diet on the Central Nervous System in CD-1 mouse</i> César A. Mendoza-Calles. Instituto de Ciencias de la Salud. Universidad Veracruzana
16	<i>Starvation increases attraction to odorants through CRH-1/CREB activity in the nervous system and intestine of <i>Caenorhabditis elegans</i>.</i> Francisco Pinta Castro. Instituto de Fisiología Celular, UNAM
18	<i>Involvement of CB2 receptors of the anterior cingulate cortex on the modulation of palatable food intake in rats with binge-type behavior</i> Juan Carlos Rodríguez-Aguilar. FES Iztacala. UNAM
20	<i>Light and temperature cycles as zeitgebers in the circadian locomotor activity rhythm of the snake <i>Crotalus molossus</i></i> Ángel Bernardo Villarreal-Medina. Instituto de Biología. UNAM

DEVELOPMENT & AGING

22	<i>The amniotic epithelium confers a bias to human embryonic stem cells to differentiate toward the neuroectoderm lineage</i> Daniela Ávila González. CIATEJ / INPER
----	--

- 24** *The role of GDNF in the axonal growth of motor neurons and in the establishment of the neuromuscular junction*
José Fernando Becerra Vélez. Instituto de Fisiología Celular, UNAM
- 26** *Axonal degeneration in an in vitro model of neuronal senescence*
Gisselle A. Campos-Martínez. Instituto de Fisiología Celular, UNAM
- 28** *TRa1 and TRb1 expression in the neurogenic niche of the hippocampus*
Edna Ahtza Esparza Arellano. Neuroscience Lab. University of Guanajuato
- 30** *Taurine plays a key role in the differentiation process of neural progenitor cells from SVZ through GABA receptor interaction*
Nadia Estefanía Gutiérrez-Castañeda. Facultad de Medicina, UNAM
- 32** *Generation and characterization of human midbrain organoids*
Angel Polanco. Instituto de Fisiología Celular, UNAM
- 34** *Generation of mouse and human embryonic stem cells for doxycycline inducible GDNF expression.*
Melanie Trinidad Peralta. Instituto de Fisiología Celular, UNAM

TEACHING & SCIENTIFIC KNOWLEDGE DISSEMINATION

- 36** *How to give good public engagement talks? A pilot workshop aimed at researchers and students at IFC*
Camila del Río Castro. Instituto de Fisiología Celular, UNAM

EPIGENETICS

- 38** *Identification of Enhancer Regions of Midbrain Dopaminergic Neurons using Histone Modification ChIP-Seq*
Mayela Giacomán-Lozano. Tecnológico de Monterrey, Escuela de Medicina y Ciencias de la Salud
- 40** *DNA methyltransferases as an epigenetic barrier in Müller cells reprogramming*
Victoria-Chávez Rebeca Yael. Dept. de Farmacobiología. Cinvestav Sede Sur

STRESS

- 42** *Effect of chronic stress on the expression of mucins and cytokines in different intestinal regions of female BALB/c mice*
Jennifer Karume1 Gutiérrez-Galicia. Escuela Superior de Medicina. IPN
- 44** *Maternal consumption of trans-resveratrol, epigenetic and behavioral effects in prenatally stressed rats*
Gerardo Vega Juárez. Instituto Nacional de Perinatología
- 46** *Evaluation of Superoxide dismutase enzyme activity in the prefrontal cortex of neonatal rats subjected to postnatal stress*
Dennis Paniagua Camacho. Centro de Investigación Biomédica de Michoacán, IMSS

- 48** *Brain and peripheral oxidative damage during the development of obesity*
Elena Salazar-Hernández. Universidad Autónoma de Guerrero

- 50** *Exposure to acute stress in young offspring from mothers with maternal immune infection acts as a risk factor for the development of depressive-like behaviors in adulthood*
Valle-Castillo Gabriela Abigail. Instituto Nacional de Psiquiatría “Ramón de la Fuente Muñiz”

GENE EXPRESSION

- 52** *Gene data mining and Protein-Protein interaction analysis for Alzheimer's Disease and Diabetes Mellitus and identifies their potential molecular links*
Ricardo Castillo Velázquez. Universidad Autónoma de San Luis Potosí
-
- 54** *Identification of transcripts, proteins and microRNAs that are differentially expressed at early phases of brain regeneration in the Mexican axolotl*
Arturo Emiliano Martínez-Hernández. Instituto de Fisiología Celular. UNAM
-
- 56** *Transcriptional adaptation to ischemia in the brain endothelium mediated by the Early B-cell factor*
Jaime Emiliano Rogerio-Ríos. Instituto de Fisiología Celular, UNAM
-
- 58** *Transcriptional effect of enriched environment exposure in a murine colitis model*
David Valle García. Instituto de Biotecnología. UNAM

GLIA

- 60** *In Vitro and Computational Studies of Perezone and Perezone Angelate as Potential Anti-Glioblastoma Multiforme Agents*
Maricarmen Hernández Rodríguez. Escuela Superior de Medicina. IPN
-
- 62** *Alterations in the physiology of Müller glial cells under diabetic retinopathy conditions in vitro*
Alan Emmanuel Medina Arellano. Facultad de Medicina, UNAM
-
- 64** *Differential expression of astrocytic fibrillary glial acidic protein during brain aging in rats*
Brian Iván Morales-López. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suarez
-
- 66** *Flouride exposure modulates SLC7A11 (xCT) in radial glial cells*
Andrea Ocharán. Departamento de Toxicología. Cinvestav. IPN
-
- 68** *Thrombospondin-1 (TSP-1) expression in brain mouse during postnatal development.*
Arturo Esteban Pérez Miguel. Facultad de Psicología. UNAM,
-
- 70** *Effect of 5 Hz transcranial magnetic stimulation on hippocampal oligodendrocytes in chronically stressed female Swiss-Webster mice*
Allan Rico Becerra. Instituto Nacional de Psiquiatría “Ramón de la Fuente Muñiz”

- 72** *Differences in the localization of AQP1 and expression patterns of AQP isoforms in rat and mouse sciatic nerve and changes in rat AQPs expression after nerve crush injury*

Edith Segura-Anaya. Laboratorio de Neurociencias. Facultad de Medicina. UAEMEx

- 74** *Analysis of density and distribution of astrocytes and microglial cells at the hippocampal formation of autistic-like C58/J mice.*

Carlos Noé Vázquez-Moreno. Instituto de Investigaciones Biomédicas. UNAM

METABOLISM

- 76** *Obesity and its relationship with the appearance of peripheral insulin resistance and brain insulin resistance in C57BL/6 mice.*

Oscar Ezequiel Bahena-Cuevas. FCQB. Universidad Autónoma de Guerrero

- 78** *Aerobic training decreases peripheral sensitivity and inflammation in T2D mice.*

Saúl Ernesto Cifuentes Mendiola. FES Iztacala. UNAM

- 80** *Metabolomic profile of dopaminergic neurons derived from induced pluripotent stem cells of Parkinson's disease patients.*

Xóchitl Flores-Ponce. Instituto de Fisiología Celular. UNAM

- 82** *Effect of cystathione-gamma-lyase/hydrogen sulfide system modulation on vascular dysfunction induced by insulin resistance in male Wistar rat thoracic aorta*

Araceli Sánchez-López. Departamento de Farmacobiología, Cinvestav – Coapa

- 84** *Sulpiride, a D2 dopamine receptor antagonist improves glucose tolerance, insulin sensitivity and reduces visceral adipocyte hypertrophy in obese mice*

Dina Iathzil Vázquez-Carrillo. Instituto de Neurobiología. UNAM

NEUROENDOCRINOLOGY

- 86** *Short-term administration of tibolone reduces inflammation and oxidative stress in the hippocampus of ovariectomized rats fed high-fat and high-fructose*

Christian Guerra-Araiza. Centro Médico Nacional Siglo XXI, Instituto Mexicano del Seguro Social

- 88** *Oxytocin/vasopressin-related neuropeptide distribution in ovaries of Pogonomyrmex barbatus ant*

María Fernanda Vergara Martínez. Instituto de Investigaciones Biomédicas, UNAM

NEUROPHARMACOLOGY

- 90** *Effect of probiotics on fluoxetine and sertraline antidepressant activity in learned helplessness models in mice.*

Patricia Aguirre-Bañuelos. Universidad Autónoma de San Luis Potosí

- 92** *Analysis of the effect of two hypoglycemic agents on long-term memory in diabetic BALB/c mice*
Carolina Carrillo-Calderón. Autonomous University of Coahuila
- 94** *Bunodeopsis globulifera toxins induce [³H]-glutamate release in rat cortex and decrease viability of human neuroblastoma cell line SH-SY5Y*
Aleida Jeannette Flores Pérez. Posgrado en Ciencias del Mar y Limnología. UNAM
- 96** *Exogenous hydrogen sulfide improves hypertension induced by traumatic brain injury in rats through vasopressor sympathetic outflow inhibition and H₂S-synthesizing enzymes restoration*
Saúl Huerta de la Cruz. Departamento de Farmacobiología, Cinvestav Coapa
- 98** *Identification of the locus underlying synaptic potentiation mediated by TrkB receptor activation in CA3 pyramidal cells of the hippocampus*
Roberto Olvera-Guillen. Departament of Pharmacobiology, CINVESTAV
- 100** *Orally administered silybin improves most of the biochemical and behavioral outcomes in the MPTP-induced parkinsonism murine model*
Ricardo Jair Ramírez-Carreto. Unidad de Investigación en Medicina Experimental, UNAM
- 102** *Anticonvulsant and nervous system stimulant effect of Ehretia tinifolia extracts*
David Osvaldo Salinas-Sánchez. Universidad Autónoma del Estado de Morelos
- 104** *NPY-Y1 receptors in dorsal periaqueductal gray modulate food, sucrose and alcohol consumption in pre-exposed and free food and water access rats*
Priscila Vázquez-León. Facultad de Psicología. UNAM

INTEGRATIVE NEUROPHYSIOLOGY

- 106** *Enrichment environment improves memory and synaptic plasticity in cognitively impaired animals due to chronic exposure to a high-fructose and high-fat diet.*
Ernesto Saúl Gutiérrez López. Instituto de Fisiología Celular. UNAM
- 108** *Cortical effects of facial palsy in motor planning of facial expressions in a murine model*
Elías Perrusquia Hernández. Faculty of Higher Studies Iztacala. UNAM
- 110** *Dietary restriction blocks epileptogenesis by preventing the increase in low-frequency bands and IL-1 β expression by hippocampal kindling*
Josué Denichi Sánchez Hernández. National Institute of Neurology and Neurosurgery M.V.S.

NEUROIMMUNOLOGY

- 112** *Influence of maternal immune activation on synaptic transmission mediated by metabotropic glutamate receptors at the mossy fiber-CA3 synapse.*
Johaly del Carmen Anguiano Buenfil. Departament of Pharmacobiology. Cinvestav

114	<i>Effect of thermal stimulation on macrophage subpopulations in a murine sepsis model</i> Mario Alberto Bautista-Hernández. Centro Médico Nacional Siglo XXI, IMSS
116	<i>Catecholaminergic neuroimmunological system in the dental pulp</i> María Eugenia Marcela Castro-Gutiérrez. Centro Médico Nacional Siglo XXI, IMSS
118	<i>Effect of dopamine type 2 receptor activation on neuroinflammation in a mouse model of sleep deprivation</i> María Guadalupe Hernández Luna. Faculty of Medicine. UNAM
120	<i>Activation of Toll-like receptors in combination with vincristine in glioblastoma cells</i> Orlando Daniel Moedano-Hernández. Hospital Infantil de México Federico Gómez.
122	<i>The p38 MAP kinase mediates BDNF neuroprotective functions against β-Amyloid peptides and inflammatory cytokines</i> Alejandro Ramírez Olvera. Instituto de Biotecnología, UNAM
124	<i>Differential expression of BDNF, RANTES and EOTAXIN-1 in serum-derived exosomes and in serum and from major depressive diagnosed patients</i> Jorge Manuel Vásquez-Pérez. Instituto Nacional De Psiquiatría Ramón De La Fuente Muñiz

NEUROPATHOLOGY

126	<i>Encoding signs of orofacial neuropathic pain from facial expressions in mice</i> Rey David Andrade González. Facultad de Estudios Superiores Iztacala. UNAM
128	<i>Establishment of a CRISPR based-system for ataxin-7 transcript interactome characterization</i> Rodolfo Daniel Ávila-Avilés. Department of Genetics and Molecular Biology. Cinvestav IPN
130	<i>Tibolone administration decreases oxidative stress in plasma and spinal cord in a traumatic spinal cord injury animal model</i> Guadalupe Bautista Poblet. Hospital de Especialidades. Centro Médico Nacional Siglo XXI. IMSS
132	<i>Early dysregulation of Wnt signaling in the hippocampus of 3xTg-AD model</i> Diana Elizabeth Colín Martínez. Instituto de Investigaciones Biomédicas. UNAM
134	<i>Role of NOX in NLRP3 inflammasome regulation during cerebellar granule neuron death.</i> Karen S. Cruz-Hernández. Instituto de Fisiología Celular. UNAM
136	<i>Inhalation of vanadium pentoxide (V2O5) induces memory and cytoskeleton alterations in brain structures related to Alzheimer disease.</i> Claudia Dorado-Martínez. Facultad de Estudios Superiores Iztacala, UNAM
138	<i>Hyperphosphorylated Tau relates to reduced hippocampal excitability in the young rTg4510 mouse model of tauopathy</i> Carlos Antonio García-Carlos. Instituto de Neurobiología. UNAM

- 140** *Autophagy Inducers Trehalose and Metformin Prevent Cognitive and Motor Dysfunction by Protecting Dopaminergic Neurons from Paraquat Toxicity*
Yareth Gopar-Cuevas. Universidad Autónoma de Nuevo León, Facultad de Medicina
- 142** *Temporality in the expression of alpha-synuclein and dopaminergic neuronal death after intracerebral lipopolysaccharide injection*
Alma Karen Lomeli-Lepe. (CUCBA), Universidad de Guadalajara
- 144** *Differential expression of synaptic plasticity of the medial and lateral perforant path to the dentate gyrus in a neurodevelopment model of schizophrenia: effects on spatial memory*
Luis A. Márquez. Departament of Pharmacobiology, Cinvestav-Sede Sur

CELLULAR PLASTICITY & NEURAL CIRCUITS

- 146** *Neuronal differentiation of the N1E-115 cell line promoted by aminated biomaterial coatings synthesized by plasma polymerization.*
Estephanny Jocelyn Alvarado Muñoz. Universidad Autónoma Metropolitana Plantel Xochimilco
- 148** *Environmental enrichment influences social interaction and agonistic behavior in the offspring of pregnant dams exposed to immune activation with the viral mimetic Poly I:C implication of neurogenesis and sex.*
Valeria Flores-Torres. Instituto Nacional de Psiquiatría “Ramón de la Fuente Muñiz
- 150** *Short time of social instability stress does not induce depressive-like behavior but evidences low social interaction with increased negative social behavior and dendritic remodeling in the dentate gyrus of female C57Bl6 in environmental enrichment*
Ana Cecilia Luis-Castañeda. Instituto Nacional de Psiquiatría “Ramón de la Fuente Muñiz
- 152** *Plastic changes in the sexual reward circuit induced by motivated behaviors in male rats*
Zacnité Mier-Quesada. Instituto de Neurobiología. UNAM
- 154** *Muscarinic modulation of firing pattern in two types of parafascicular thalamic nucleus neurons.*
Héctor Aarón Vázquez Vázquez. Instituto de Fisiología Celular. UNAM

SIGNAL TRANSDUCTION

- 156** *The role of miRNAs in the signaling pathway activated by Zika virus leading to microcephaly*
Nohemi Adriana Camacho Concha. Instituto de Biotecnología. UNAM
- 158** *Alterations in signaling by DHA and its association with dendritic complexity in hippocampal neurons of an autistic-like mouse*
Sandra Guzmán-Vázquez. Instituto de Investigaciones Biomédicas. UNAM

SYNAPTIC TRANSMISSION

- 160** *Artificial early and late memory signals induce taste avoidance memory, plastic and neurochemical changes*
Arturo Hernández-Matias. Instituto de Fisiología Celular. UNAM

INNOVATION & TECHNOLOGY

- 162** *Cerebral biomarkers measurement in serum from Parkinson's disease patients with a high output technique (nano blot) and its further analysis using artificial intelligence tool*
Alberto Morales-Villagrán. Mexbio Research Innovations S. A. de C.V.

Posters Session II Odd numbers

Tuesday April 5. 17:35 – 19:30

COGNITION & BEHAVIOR

- 1** *Analysis of Neuronal Activity in Prefrontal Cortex and Modeling with Recurrent Neural Networks during Bimodal Detection Task*
Bernardo Andrade Ortega. Cellular Physiology Institute. UNAM

- 3** *Natural sweeteners decrease short-term memory capacity in male and female C57BL6 mice*
Cristina Balcón Pacheco. Univ. of Guanajuato Campus Irapuato Salamanca

- 5** *Bimodal Encoding in a Neuronal Population of the Dorsal Premotor Cortex during Working Memory*
Andrea Fernanda Campos Pérez. Instituto de Fisiología Celular, UNAM

- 7** *Environmental Enrichment and a Cooperative Social Behavior Task*
Gabriela Lizbeth Franco Olivares. Facultad de Psicología. UNAM

- 9** *Effect of dopamine type 2 receptor activation in long-term memory in a murine REM sleep deprivation model.*
Stephany García Velasco. Facultad de Medicina UNAM

- 11** *Maternal enrichment increases infantile spatial amnesia mediated by postnatal neurogenesis modulation.*
Grecia López-Oropeza. Department of Cell Biology, Faculty of Sciences, UNAM

- 13** *The role of 5-HT_{Rs} of the Nucleus Accumbens in Sociability*
Magda Karina Martínez Mata. Instituto de Fisiología Celular, UNAM

- 15** *Effects of Disruptors on a Retrospective Temporal Discrimination Task: An Approach through Signal Detection Theory*
Mario Pérez Calzada. Facultad de Psicología. UNAM

- 17** *Emotional dysregulation in women with endometriosis presenting cyclical and non-cyclical chronic pelvic pain*
Dulce Carolina Rodríguez-Lozano. INPER-Facultad de Química. UNAM

- 19** *Striatal circuitries for motor control and action selection*
Daniela Trejo-Saavedra. Instituto de Neurobiología, UNAM

- 21** *The effect of optogenetic-induced synaptic plasticity in LC-CA1 pathway on memory*
Arenski Vázquez-Lechuga. Instituto de Fisiología Celular. UNAM

DEVELOPMENT & AGING

- 23** *Evaluation of ketogenic diet as a non-invasive strategy to improve autophagy and memory function in aged 3xTg-AD and WT mice*
Lorelei Ayala-Guerrero. Instituto de Fisiología Celular. UNAM

- 25** *Sucrose Consumption During Late Adolescence alters Dendritic Orientation of Doublecortin Positive Neurons of The Ventral Dentate Gyrus in Adulthood*
Pablo Edson Bustamante Nieves. Instituto Nacional de Pediatría
- 27** *Generation of knock-down and knock-out hESC lines for SCL to study GABAergic differentiation*
Jorge Luis Díaz-Ruiz. Instituto de Fisiología Celular, UNAM
- 29** *Effect of sonic hedgehog on the axonal growth of human dopaminergic neurons*
García-Gutiérrez Paola. Instituto Nacional de Neurología y Neurocirugía
- 31** *Prolactin receptor deficiency promotes a hypomyelinating phenotype in the corpus callosum of suckling and prepubertal mice*
Ana Luisa Ocampo-Ruiz. Instituto de Neurobiología, UNAM
- 33** *The chronoarchitecture of the cerebral cortex could be linked to the emergence of the senescent phenotype*
Ana Karen Ramírez Reyes. Instituto de Investigaciones Biomédicas, UNAM
- 35** *Effect of D-serine on cognitive reserve in aged rats*
Bárbara Vázquez-Prieto. ENES - Unidad Juriquila. UNAM

TEACHING & SCIENTIFIC KNOWLEDGE DISSEMINATION

- 37** *Malnutrition and the serotonergic System: the consequences of a poor nutrition during pregnancy in the development of the Brain.*
Ángela Renata Jiménez-Pérez. Facultad de Ciencias, UNAM

EPIGENETICS

- 39** *Tn5 enzyme production and characterization for CUT&Tag profiling of epigenetic modifications in human embryonic stem cells*
César Daniel Meléndez-Ramírez. Instituto de Fisiología Celular. UNAM

STRESS

- 41** *Neuronal death induce by potassium deprivation (K5) and ST has differential effects in Drp1 phosphorylation*
Carolina Cid Castro. Instituto de Fisiología Celular. UNAM
- 43** *Participation of the Sympathetic Nervous System in the Modulation of Components of Intestinal Homeostasis in Mice Underwent Stress*
Fabiola Guzmán-Mejía. Universidad Autónoma Metropolitana Xochimilco
- 45** *Mechanisms of Neurotoxicity Induced by Exposure to Low Doses of Permethrin*
Sonia Nava-Salazar. Instituto Nacional de Perinatología
- 47** *Development of binge eating behavior in Female Wistar Kyoto rats: a better model with construct and appearance validity*
Daniela Sarai Rodríguez-Rangel. Cinvestav-Sede Sur

- 49** *Mitochondrial dynamics under glucose deprivation and glucose reintroduction in cortical neurons and its possible regulation by the ketone body β hydroxybutyrate*
Ashley Salcido-Gómez. Instituto de Fisiología Celular. UNAM

GENE EXPRESSION

- 51** *Identification of the exons retained in the mRNA of the Sulfonylurea receptor 1 in the brain and other rat tissues*
Penélope Aguilera. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez
-
- 53** *DISC1 interactome genes are associated with psychosis in patients with schizophrenia and bipolar disorder in the Mexican population*
Araceli Gutiérrez-Rodríguez. Instituto Nacional de Medicina Genómica
-
- 55** *Potential role of lncRNAs as modulators of pluripotency and dopaminergic neuronal differentiation*
Ismael Portillo Pantoja. Instituto de Fisiología Celular, UNAM
-
- 57** *An enriched environment prevents the cognitive decline in the Alzheimer's disease mouse model 5XFAD by modulating the microglia neuroprotective phenotype*
Kenya Paola Romero Burgos. Instituto de Biotecnología. UNAM

GLIA

- 59** *Evidence for a neuroinflammatory process in the hippocampus of the autistic-like mouse strain C58/J throughout development*
Juan Francisco Duarte-Campos. Instituto de Investigaciones Biomédicas. UNAM
-
- 61** *Characterization of Mice Cerebellar Microglia Primary Cultures*
María Isabel Martínez Hernández. Departamento de Toxicología. Cinvestav IPN
-
- 63** *Glutamine transport systems expressed in the U373MG glioblastoma cell line*
Laura Isabel Méndez-Aldana. Departamento de Toxicología. Cinvestav. IPN
-
- 65** *Protective and antioxidant effects in glial cells of phenolic compounds*
José Manuel Nájera-Maldonado. FCQB. Universidad Autónoma de Guerrero
-
- 67** *Expression of exosomal miR-29a in astrocytes exposed to high glucose*
Claudia Paola Pérez-Macedonio. FCQB. Universidad Autónoma de Guerrero
-
- 69** *Stimulation with TNF- α and glutamate induces the release of Wnt5a and Wnt7a in Astrocyte-derived exosomes*
Rosa Isela Rendón-Meza. Instituto de Investigaciones Biomédicas. UNAM
-
- 71** *Characterization of EAATs in human endothelial cells and astrocytes: contribution of the BBB to glutamate efflux*
Fredy Sánchez Cano. Neurotoxicology Lab. Dep. of Toxicology. Cinvestav-IPN
-
- 73** *Aryl hydrocarbon receptor as a new EAAT1/GLAST regulator*
Janisse Silva-Parra. Departamento de Toxicología. Cinvestav. IPN

- 75** *Human olfactory epithelium-derived astrocytes transplantation into the striatum of neonatal mice*

Denisse Vega Mackeprang. Instituto de Neurobiología. UNAM

METABOLISM

- 77** *Coconut and Sucrose Diets Alter GABA in Overweight rat brain*

David Calderón Guzmán. Instituto Nacional de Pediatría

- 79** *Prolactin modulates enterocyte intestinal maturation in lactating mice*

José Luis Dena-Beltrán. Instituto de Neurobiología. UNAM

- 81** *Regulation of the transcription factor TFEB by the ketone body β-hydroxybutyrate in neurons and its impact on mitophagy*

Juan Carlos Gómora-García. Instituto de Fisiología Celular, UNAM

- 83** *Metabolic profile of CPA: Implications for Glioma's Treatment*

America Vanoye Carlo. Laboratorio de Neurociencias, Instituto Nacional de Pediatría

NEUROENDOCRINOLOGY

- 85** *Prolactin Modulates Sexual Pheromone Perception and Accessory Olfactory Bulb Cell Activation In Female Mice*

Viridiana Curbantez Bueno. Instituto de Neurobiología. UNAM

- 87** *Differential regulation of pituitary growth hormone expression and release by several neuropeptides among vertebrates*

Valeria Alejandra Urban Sosa. Instituto de Neurobiología. UNAM

- 89** *Oxytocin/vasopressin-related neuropeptide distribution in developmental stages and castes in the ant *Pogonomyrmex barbatus* brain*

Carlos Zavaleta Zamora. Instituto de Investigaciones Biomédicas, UNAM

NEUROPHARMACOLOGY

- 91** *Anxiolytic and hypnotic effect of methanolic extract of *Malphigia mexicana**

Dante Avilés-Montes. Universidad Autónoma del Estado de Morelos

- 93** *Sea anemone *Bartholomea annulata* venom actives GABA_A CHANNEL-receptors*

Antonia Colom-Casasnovas. Instituto de Ciencias del Mar y Limnología. UNAM

- 95** *Effect of hydrogen sulfide on the vascular dysfunction induced by severe traumatic brain injury in rats*

Félix Iván López-Preza. Center for Research and Advanced Studies. Cinvestav

- 97** *Pharmacological evidence of the mechanisms involved in the hydrogen sulfide-induced peripheral neuronal modulation of the vascular tone*

Grecia Josefa Medina-Terol. Departamento de Farmacobiología. Cinvestav Coapa

- 99** *Characterization of hollow titanium dioxide nanospheres as a release device of biomolecules with the potential to induce axonal growth of human dopaminergic neurons*
Emma Ortiz-Islas. Instituto Nacional de Neurología y Neurocirugía Manuel Velasco Suárez
- 101** *Silica nanoparticles functionalized with folic acid and loaded with antineoplastic drugs for glioblastoma multiforme*
Citlali Ekaterina Rodríguez-Pérez. Molecular Neuropharmacology and Nanotechnology lab National Institute of Neurology and Neurosurgery
- 103** *Functional expression of the oligodendroglial $\alpha 3\beta 2\gamma 1$ GABA_A receptor in HEK293 cells*
María Berenice Varela Correa. Instituto de Neurobiología, UNAM
- 105** *Effects of pioglitazone in an experimental animal model of Attention-Deficit/Hyperactivity Disorder*
Daniela Vázquez-González. Hospital Infantil de México Federico Gómez

INTEGRATIVE NEUROPHYSIOLOGY

- 107** *The Suprachiasmatic nucleus controls sleep delay-induced hyperglycemia.*
Gabriela Hurtado-Alvarado. Instituto de Investigaciones Biomédicas, UNAM
- 109** *In Vivo Wireless Optogenetic Control of Skilled Motor Behavior*
Diana L. Rodríguez-Muñoz. Instituto de Fisiología Celular. UNAM
- 111** *Neuronal representation of oral ethanol administration in orbitofrontal cortex of sedated naïve mice*
Karla Ivonne Zepeda-Reyes. Faculty of Higher Studies Iztacala. UNAM

NEUROIMMUNOLOGY

- 113** *KChIP3 impairs memory in the Alzheimer's disease mouse model 5XFAD*
Bolívar Jesús Arcos-Encarnación. Instituto de Biotecnología UNAM
- 115** *Analysis and comparison of protein content of serum derived exosomes obtained from patients with Major Depressive Disorder (MDD): responders versus non-responders to pharmacological treatment*
Diana Gutiérrez-Buenabad. Facultad de Psicología. UNAM
- 117** *Maternal immune activation impairs morphophysiological properties of CA1 pyramidal neurons from dorsal hippocampus of the offspring*
Ernesto Griego Melo. Departamento de Pharmacobiología, Cinvestav
- 119** *Effect of maternal immune activation on central nervous system and function*
Karla F Meza-Sosa. Instituto de Biotecnología, UNAM
- 121** *TNFR2 inhibit Long-term potentiation in single-synapses and promote memory loss in a familial Alzheimer's disease mouse model*
Jorge Luis Ochoa-Almazán. Instituto de Biotecnología. UNAM

- 123** *Sympathoadrenomedullar system mediates anti-inflammatory and glycemic reflex to endotoxin*
Esteban Santacruz-Martínez. Instituto de Investigaciones Biomédicas. UNAM
- 125** *Exposure to an Enriched Environment Attenuates Mouse Experimental Colitis*
Tomás Villaseñor Toledo. Instituto de Biotecnología, UNAM

NEUROPATHOLOGY

- 127** *Structural and dynamics analysis of the polyQ tract in the Ataxin-7 protein*
Rodolfo Daniel Ávila-Avilés. Cinvestav IPN
- 129** *Effect of the ketone body β-hydroxybutyrate on autophagy activation induced by glucose deprivation in cultured cortical neurons*
Karla Gabriela Avilez Poblador. Instituto de Fisiología Celular. UNAM
- 131** *In Vivo Transfection in a Murine Model of Tubulinopathy*
Diego Carmona Montiel. Neuroscience Laboratory, DCI, University of Guanajuato
- 133** *Effect of tibolone on inflammation and motor recovery in a model of traumatic spinal cord injury*
Angélica B. Coyoy Salgado. Hospital de Especialidades. Centro Médico Nacional SXXI. IMSS - CONACyT
- 135** *Characterization of cellular markers of senescence during the progression of Alzheimer's disease pathology in the brain of 3xTg-AD mice*
José Eduardo Domínguez Rivas. Instituto de Investigaciones Biomédicas, UNAM
- 137** *Dopamine concentration and mitochondrial function modifications in a Parkinson's disease model by manganese inhalation*
Cesar Alfonso García-Caballero. Facultad de Estudios Superiores Iztacala, UNAM
- 139** *Post-translational modifications on tau protein after neuronal exposure to palmitic acid*
Valeria Melissa García-Cruz. Instituto de Investigaciones Biomédicas. UNAM
- 141** *Contribution of brain microvasculature to remyelination after an ischemic injury via extracellular vesicles*
Fernando Hernández-Real. Instituto de Fisiología Celular. UNAM
- 143** *Temporal expression of circadian clock proteins in glioma C6*
Emely Maqueda-Martínez. Instituto de Investigaciones Biomédicas. UNAM
- 145** *Protective effect of the ketone body, β-hydroxybutyrate on ischemic brain injury.
Role of reticular stress and autophagy*
Teresa Montiel. Instituto de Fisiología Celular. UNAM

CELLULAR PLASTICITY & NEURAL CIRCUITS

- 147** *The persistence of antidepressant-like effects of rTMS at 5Hz is associated with microglial modifications in the hippocampal neurogenic niche in rodents exposed to unpredictable chronic mild stress.*
Dana Vianey Castro-de Aquino. Instituto Nacional de Psiquiatría

- 149** *Neurogenesis-dependent and/or independent mechanisms underlying the antidepressant-like effect of 5Hz repetitive transcranial magnetic stimulation (rTMS) in mice exposed to chronic mild stress*

Andrea Granados-Juárez. Instituto Nacional de Psiquiatría “Ramón de la Fuente Muñiz”

- 151** *Repetitive transcranial magnetic stimulation (5 Hz) decreases the depressive-like behavior, modifies the structural dendritic plasticity, and induces global epigenetic changes in the frontal cortex and hippocampus in a model mouse of chronic stress.*

Juan David Meneses-San. National Institute of Psychiatry “Ramón de la Fuente Muñiz”

- 153** *Memory impairment in adulthood after neonatal excitotoxicity is related to changes in NMDA receptor NR2 subunit protein expression*

Mónica E. Ureña-Guerrero. (CUCBA), Universidad de Guadalajara

SIGNAL TRANSDUCTION

- 155** *The Krüppel-like factor 13 (KLF13) is a New Regulator of the JAK/STAT Signaling Pathway in Hippocampal Neurons*

José Ávila-Mendoza. Instituto de Neurobiología. UNAM

- 157** *Analysis of phosphatidylethanolamine binding protein 1 (PEBP1) interactions with other proteins during brain cerebral focal ischemia in rat hippocampus*

Jorge Daniel Corzo-Toledo. Cinvestav – IPN

- 159** *PTP1B regulates cell cycle progression through a Cdk3/Rb dependent manner in human glioblastoma cells*

Olga Villamar-Cruz. Facultad de Estudios Superiores-Iztacala. UNAM

SYNAPTIC TRANSMISSION

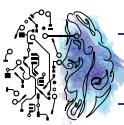
- 161** *Functional role of cortical glutamatergic neurotransmission in conditioned taste preference*

Karla Gabriela Medina-Medina. Instituto de Fisiología Celular. UNAM

INNOVATION & TECHNOLOGY

- 163** *Increase of 5-HT levels is induced both in mouse brain and HEK-293 cells following their exposure to a non-viral tryptophan hydroxylase construct.*

Emiliano Tesoro-Cruz. Hospital de Infectología, Centro Médico Nacional “La Raza”, IMSS / IFC UNAM



Sociedad Mexicana
de Bioquímica
Neurobiología

IV Neurobiology Meeting
Mexican Society for Biochemistry
Oaxaca, México. April 3-7, 2022



*The Organizing Committee wishes to express its gratitude to
the following sponsors and donors*

DONORS

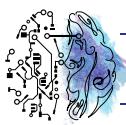


<https://www.biologists.co>

<https://ibro.org/>



Agradecemos al Consejo Nacional de Ciencia y Tecnología (CONACyT) por el apoyo otorgado a la Sociedad Mexicana de Bioquímica para la organización de este evento, mediante el proyecto número 318661 "Apoyo para la organización de los Congresos Nacionales de la Sociedad Mexicana de Bioquímica, A.C." dentro de la convocatoria "Fortalecimiento de Actividades vinculadas con la Promoción, Difusión y Divulgación de las Humanidades, Ciencias, Tecnologías y la Innovación: Academias y Sociedades Científicas 2021".



Sociedad Mexicana
de Bioquímica
Neurobiología

IV Neurobiology Meeting
Mexican Society for Biochemistry
Oaxaca, México. April 3-7, 2022



SPONSORS



Arte Mariano Gómez

<https://www.facebook.com/Arte-Mariano-Gómez-594212461267287>