



Poster Session 5: Friday, 5th November, from 15:00 to 18:30, Exhibition Hall.

PS5-01

Identification of conserved neuron subtypes expressing Otp and Foxg1 in the extended amygdala of a lizard

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PS5-02

ROLE OF BASAL AUTOPHAGY IN THE REGULATION OF HIPPOCAMPAL NEURAL STEM CELL

Ms. Isabel Calatayud-Baselga¹, Mr. Jose María Guijarro¹, Dr. Lucía Casares-Crespo¹, Dr. Helena Mira¹

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PS5-03

Postnatal refinement of interhemispheric callosal projections: GluN3A-mediated mechanisms

Dr. Oliver Crawley¹, Ana Navarro¹, Prof. Isabel Pérez-Otaño¹

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PS5-04

EFFECTS OF CHLORPYRIFOS ON CELL DEATH AND CELLULAR PHENOTYPIC SPECIFICATION OF HUMAN STEM CELLS

Ms. Andreea Rosca^{1,2}, Ms. Raquel Coronel¹, Ms. Rosa González^{1,3}, Ms. Patricia Mateos¹, Dra. López Victoria³, Dra. María del Carmen González⁴, Dra. Isabel Liste¹

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PS5-05

APC/C-Cdh1 inhibition promotes hypomyelination during postnatal development

Ms. Silvia Gomila^{1,2}, Dr. Verónica Bobo-Jiménez^{1,2}, Dr. Rebeca Lapresa^{1,2}, Dr. Jesús Agulla^{1,2}, Dr. Angeles Almeida^{1,2}

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PS5-06

Amyloid Precursor Protein (APP) regulates cell fate specification in human Neural Stem Cells

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PS5-07

EMBRYONIC CANNABINOID CB1 RECEPTOR KNOCKDOWN CONSEQUENCES IN GENE EXPRESSION AND FUNCTIONAL MATURATION OF PYRAMIDAL NEURONS

Mr. Samuel Simón Sánchez^{1,2}, Ms. Georgia Skrepou³, PhD Femke den Boon³, PhD Daniel García Rincón^{1,2}, PhD Juan Paraíso Luna^{1,2}, PhD Taco Werkman³, Manuel Guzmán^{1,2}, Pascal Chameau³, Ismael Galve Roperh^{1,2}

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PS5-08

Proliferative rate and neurogenesis in human Neural Stem Cells are increased by A β 40 peptide

Dra. Adela Bernabeu-Zornoza¹, **Ms Raquel Coronel^{1,2}**, Dra. Charlotte Palmer¹, Ms Rosa González^{1,3}, Ms Andreea Rosca¹, Ms Patricia Mateos¹, Dra. Victoria López³, Dra. Isabel Liste¹

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PS5-09

The cellular effect of Shh signaling in oligodendrocyte precursor cells (OPCs) depends on the microenvironment

Dra Sonia Nocera¹, **Dr. Miguel Marchena^{1,2}**, Beatriz Fernández-Gómez¹, Yolanda Lao¹, Lidia Sobrino^{1,3}, Dr Rafael Lujan⁴, Dr Fernando de Castro¹

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PS5-10

Ambra1 regulates cyclin D stability to guard S-phase entry and genomic integrity during neurodevelopment**Dr. Giacomo Milletti¹**, Dr. Emiliano Maiani², Dr. Francesca Nazio¹, Prof. Jiri Bartek³, Prof. Francesco Cecconi¹¹Bambino Gesù Children's Hospital, Rome, Holy See [Vatican City State], ²Cell Stress and Survival Unit, Danish Cancer Research Center, Copenhagen, Denmark, ³Genome Integrity Unit, Danish Cancer Research Center, Copenhagen, Denmark

PS5-11

In vivo astrocyte activation modulates spontaneous inhibitory activity during slow wave oscillations in the somatosensory cortex**Dr. Salvador Herrera-Pérez¹**, Ms. Claudia Miguel-Quesada¹, Ms. Marta Zaforas¹, Ms. Elena Alonso-Calviño¹, Ms. Elena Fernández-López¹, Dr. Juan Aguilar¹, Dra. Juliana M Rosa¹¹Hospital Nacional de Paraplégicos. SESCAM, Toledo, Spain

PS5-12

Adaptative myelin plasticity linked to increased neuronal excitability in the somatosensory cortex**Ms. Claudia Miguel Quesada¹**, Ms. Alba Fernández-González¹, Dra. Elvira Brocca¹, Dr. Alonso Higuero¹, Ms. Marta Zaforas¹, Ms. Elena Alonso-Calviño¹, Ms. Elena Fernández-López¹, Doctor José Abad¹, Doctor Juan Aguilar¹, Dra. Juliana M Rosa¹¹Hospital Nacional De Paraplégicos, Sescam, Toledo, Spain

PS5-13

Cortical astrocytes exhibit functional heterogeneity to discriminate sensory modalities**Ms. Claudia Miguel Quesada¹**, Ms. Marta Zaforas¹, Doctor Salvador Herrera¹, Ms. Elena Fernández-López¹, Ms. Elena Alonso-Calviño¹, Doctor Juan Aguilar¹, Dra. Juliana M Rosa¹¹Hospital Nacional De Paraplégicos, Sescam, Toledo, Spain

PS5-14

Neuron-derived extracellular vesicles enhance synaptic plasticity through RTP801**Ms. Julia Solana Balaguer^{1,2,3}**, Mr. Albert Coll Manzano^{1,2,3,4}, Mr. Genís Campoy Campoy^{1,2,3}, Dr. Leticia Pérez Sisqués^{1,2,3}, Dr. Núria Martín Flores^{1,2,3,5}, Dr. Jordi Alberch^{1,2,3,4}, Dr. Jordi Soriano^{1,6}, Dr. Mercè Masana^{1,2,3,4}, Dr. Cristina Malagelada^{1,2,3}¹Universitat De Barcelona, Barcelona, Spain, ²Institut de Neurociències, School of Medicine and Health Sciences of the University of Barcelona, Barcelona, Spain, ³Centro de Investigación Biomédica en Red sobre Enfermedades Neurodegenerativas (CIBERNED), Barcelona, Spain, ⁴IDIBAPS-Instituto de Investigaciones Biomédicas August Pi i Sunyer,



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PS5-15

Microglial local translation in A β -induced pathology

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PS5-16

Organization of a Sox2-positive glial cell population in the optic nerve associated with growing fibers in the fish visual system

Dr. Laura DeOliveira-Mello¹, Dr. Andreas F. Mack², Dr. Juan Lara¹, Dr. Rosario Arevalo¹, Dr. Almudena Velasco¹

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PS5-17

Reactive neural stem cells and aberrant neurogenesis in a neuron-specific model of Dravet Syndrome

Dr. Lorena Ruiz-Clavijo^{1,2}, **Dr. C Alonso^{3,4,5}**, Dr Onintza Sagredo^{3,4,5}, Dr Juan Manuel Encinas^{1,2,6}

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PS5-18

Intact induction and presynaptic occlusion of short and long-term potentiation in synaptophysin family knockouts

Mr. Sergio Del Olmo-Cabrera¹, **Dr. John Wesseling¹**

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PS5-19

Parallel processing of quickly and slowly mobilized reserve vesicles in hippocampal synapses

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PS5-20

Galectin-3 impairs gamma oscillations at hippocampal CA3 area ex vivo: A suitable target to counteract the progression of Alzheimer's disease

Dr. Yuniesky Andrade-Talavera^{1,2}, Dr. Luis Enrique Arroyo-García², Dr. Sara Bachiller³, Dr. Antonio Boza-Serrano³, Prof. Antonio Rodríguez-Moreno¹, Prof. Tomas Deierborg³, Dr. André Fisahn²

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PS5-21

Differential effects of Paraquat in human and mouse astrocyte's membranes.

Ms. Laura Sánchez-Sánchez^{1,2}, Dr. Egoitz Astigarraga¹, Dr. Diego Sánchez Romero¹, Dra María Dolores Ganfornina¹, Dr. Gabriel Barreda-Gómez²

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PS5-22

Role of lysophosphatidic acid receptor LPA1 in use-dependent short-term depression and recovery at excitatory synapses in rat hypoglossal motoneurons

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PS5-23

p11 (S100A10) knockdown impacts synaptic strength and use-dependent short-term plasticity at excitatory synapses in rat hypoglossal motoneurons

Ms. Esther Vilches Herrando¹, Ms Isis Gastaldo Jordán¹, Ms Ángela Gento Caro¹, Mr Federico Portillo¹, Mr David González Forero¹, Mr Bernardo Moreno López¹

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PS5-24

Molecular mechanisms underlying NMDA receptor-BK channel coupling in specific brain regions

Ms. Andrea Reyes-Carrión^{1,2}, Dr. David Bartolomé-Martín^{1,2}, Mr. Alberto J. Gonzalez-Hernandez^{1,2}, Dr. Belinda Rivero-Perez^{1,2}, Dr. Teresa Giraldez^{1,2}

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PS5-25



Dissociation of functional and structural plasticity of dendritic spines during NMDAR and mGluR-dependent long-term synaptic depression in wild-type and fragile X model mice

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PS5-26

Astrocyte-mediated switch in spike timing dependent plasticity during hippocampal development

Mr. Rafael Falcón-Moya¹, Mr. Mikel Pérez-Rodríguez¹, Dr. José Prius-Mengual¹, Dr. Antonio Rodríguez-Moreno¹

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PS5-27

Adenosine Receptor-Mediated Developmental Loss of Spike Timing-Dependent Depression in Layer 4 to Layer 2/3 synapses of Somatosensory Cortex

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PS5-28

Astro-Light: a new tool for modulation of specific astrocytic networks

Ms. Irene Serra¹, Ms. Cristina Martín-Monteagudo¹, Ms. Laura Delgado¹, Dr. Marta Navarrete¹

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PS5-29

The olfactory peduncle in human and nonhuman primates

Mr. Raspeño Garcia¹, Ms. Aguilar Gomez¹, Dr. Sancho Bielsa¹, Ms. Cozar Cuesta¹, Ms. González Granero², Dr. Artacho Pérula¹, Dr. Insausti Serrano¹, Dr. Garcia Verdugo², Dr. De la Rosa Prieto¹

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PS5-30



STUDY OF THE DISTRIBUTION OF β -TTP AND CALCIUM BINDING PROTEINS IN THE HIPPOCAMPUS OF A MURINE MODEL OF DELAYED AGEING, THE POL μ MOUSE.

Mr. Jorge Selva Clemente^{1,3,4}, Dr. Noemí Villaseca González^{1,3,4}, Dr. Joaquin González Fuentes^{1,3,4}, Dr. Pilar Marcos Rabal^{2,3,4}, Dr Maria del Mar Arroyo Jiménez^{1,3,4}

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PS5-31

Exercise-associated miRNA profile in miR-29a/b1 deficient mouse brain

Ms. Paola Pinto Hernández¹, Ms. Noelia Blanco Agudín¹, Mr. Manuel Fernández Sanjurjo^{1,2}, Mr. Benjamín Fernández García^{1,2}, Ms. Cristina Tomás Zapico^{1,2}, Mr. Eduardo Iglesias Gutiérrez^{1,2}

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PS5-32

PROJECTIONS OF THE RAT MEDIAL SUPERIOR OLIVE

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PS5-33

MORPHOLOGICALLY DISTINCT AFFERENCES TO THE LATERAL SUPERIOR OLIVE

Mr. Juan Luis Laínez-Mejía^{1,3}, Mrs. Débora Díez-Sandoval^{1,3}, Dr. Marcelo Gómez-Álvarez^{1,2,3}, Prof. Enrique Saldaña^{1,2,3}

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PS5-34

Chronic full band recordings with graphene microtransistor neural interfaces for the discrimination of brain states

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PS5-35



Distinct hemispherical responsiveness to transcranial static magnetic field stimulation?

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PS5-36

Temporal binding of multisensory steady-state evoked responses

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PS5-37

M1- muscarinic control of slow oscillations and epileptiform discharges by light

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PS5-38

Phenotype Characterization of a Mice Model of Visual Blindness

Mr. SANTIAGO MILLA-NAVARRO¹, DR. ROMAN BLANCO¹, Dr. PEDRO DE LA VILLA¹

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PS5-39

THE PROJECTION FROM THE INFERIOR COLLICULUS TO THE POSTERIOR INTRALAMINAR NUCLEUS OF THE THALAMUS STUDIED WITH ANTEROGRADE TRACERS

Débora Díez Sandoval^{1,2}, Juan Luis Láinez Mejía^{1,2}, Dr. Emmanuel Márquez Logorreta⁴, Prof. Enrique Saldaña^{1,2,3}

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PS5-40



Take care of your babies! Mouse pups produce pheromones that induce maternal behaviour.

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PS5-41

Human Brain oscillations and region distribution in two different fatiguing tasks

Dr. Vanesa Soto León¹, Miss Mabel Torres Llacsá¹, Mr. Carlos Alonso Bonilla¹, Dr. Laura Mordillo Mateos², Miss Ana María Onate Figueres¹, Miss Marta Záforas Rodríguez¹, Dr Antonio Oliviero¹

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PS5-42

NAVIGATION TO A VIRTUAL PLATFORM TO EVALUATE ENCODING AND RETRIEVAL OF “EVERYDAY MEMORIES”

Mr. Andrés Pérez-Segura¹, Mr. Antonio Cerdán-Cerdá¹, Dr. Santiago Canals¹

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PS5-43

Intraneuronal β -amyloid but not Tau Accumulation Enhances Fear and Anxiety in Alzheimer's Disease Transgenic Mice

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PS5-44

Immune receptor TLR4 mediates cognitive deficit induced by high sodium diet

Mr. Enrique Fraga^{1,2,3,5}, Dra. Violeta Medina^{1,2}, Mr. Diego García-López¹, Dra. Macarena Hernández-Jiménez⁴, Ms. Sandra Sacristán^{1,2}, Mr. Jorge Hernández-Matarazzo^{1,2}, Dr. Ignacio Lizasoain^{2,3,5}, Dra. María Ángeles Moro^{1,2,3,5}

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PS5-45



Global hypoperfusion model of bilateral common carotid artery stenosis induces hippocampus-dependent memory deficits

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PS5-47

Microglia Regulate Learning and Memory through NF-κB

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PS5-48

LEARNING CONDITIONS INFLUENCE HIPPOCAMPAL-DEPENDENT MEMORY AND CONTEXT DISCRIMINATION

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PS5-49

White matter hyperintensities and cognitive reserve affect working memory status and trajectory: A task-based functional Magnetic Resonance Imaging study

Mr. Sergio Navarrete-Arroyo¹, PhD Lidia Vaqué-Alcázar^{1,2}, PhD Roser Sala-Llonch³, PhD Kilian Abellaneda-Pérez^{1,2}, Nina Coll-Padrós^{2,4}, Cinta Valls-Pedret^{2,5,6}, Núria Bargalló^{2,7}, Emilio Ros^{5,6}, PhD David Bartrés-Faz^{1,2}

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PS5-50

Behavioural characterization of motor and cognitive everyday life habits in Parkinson's disease

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PS5-51

Subjective cognitive complaints are related to cognitive dispersion and resting-state networks segregation in a middle-aged healthy population

Ms. Lúdia Mulet-Pons^{1,2}, PhD Lúdia Vaqué-Alcàzar^{1,2}, PhD Cristina Solé-Padullès^{1,2}, PhD Kilian Abellaneda-Pérez^{1,2}, PhD Gabriele Cattaneo³, PhD Javier Solana Sánchez³, Ms. Vanessa Alviarez-Schulze^{3,4}, PhD Dídac Macià⁴, Ms. María del Rocío Cabello Toscano^{1,2}, PhD Josep Maria Tormos³, PhD Álvaro Pascual-Leone^{3,5}, PhD David Bartrés-Faz^{1,2,3}

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PS5-52

Long-term turnover dynamics in area CA1 of hippocampus are consistent with plasticity of non-spatial inputs

Dr. Federico Devalle¹, Dr. Alon Rubín², Dr. Yaniv Ziv², Dr. Alex Roxin^{1,3}

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PS5-53

Neural network dynamics underlying the adjustment of temporal evidence weighting in perceptual decisions

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PS5-54

Control limitations shape perceptual decision making

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PS5-55

AhR Deletion Reduces Amyloid Plaque Accumulation and Axonal Dystrophy in the APP KI NL-F Alzheimer's Mouse Model



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PS5-56

Impact of tauopathies on the functional organization of neuronal cultures

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PS5-57

Neural migration is impaired in the APP/PS1 Alzheimer's mice model due to increase senescence in migrating precursors cells

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PS5-58

Oxidative damage in middle-aged apolipoprotein E4 carriers

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PS5-59

Use of fluorophore-conjugated peptides to asses putative targeting to glia of peptide-drug hybrid molecules as a new therapeutic approach for Multiple Sclerosis.

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PS5-60



Male sex bias in Parkinson's disease is linked to an accelerated age-dependent neuromelanin accumulation

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PS5-61

MALDI Imaging in mice brains reveals novel peptides signatures associated to the progression of Alzheimer's disease that can be reversed by ubiquinol

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PS5-62

Alpha-synuclein interacts with neuromelanin to enhance Lewy body formation and neurodegeneration in neuromelanin-producing parkinsonian rodents.

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PS5-63

TRAUMATIC BRAIN INJURY INDUCES A BIPHASIC LONG-TERM EFFECT ON ADULT HIPPOCAMPAL NEUROGENESIS

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PS5-64



Sex differences in the kynurenine pathway in a mouse model of neuropathic pain and depression comorbidity

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PS5-65

KINETIC AND DISTRIBUTION OF NANOEMULSIFIED ALPHA-TOCOPHEROL IN AGEING MOUSE MODELS

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PS5-66

Studying the relevance of human APOE polymorphism in Alzheimer's disease through the application of iPSCs

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PS5-67

Intermediate alleles in HTT gene may play a role in sporadic tauopathies

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PS5-68

Gene-Regulatory Dynamics of Microglia States during Neuroinflammation



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PS5-69

MiR-138 as a restorative therapy for spinal cord injury

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PS5-70

Inhibition of Receptor Protein Tyrosine Phosphatase β/ζ prevents decreases on hippocampal neurogenesis induced by acute ethanol in male and female adolescent mice but only decreases ethanol intake in male mice

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PS5-72

Targeting mTOR/4E-BP1 axis by the antidepressant Sertraline ameliorates motor deficits in the R6/1 mouse model of Huntington's disease

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PS5-74

Chronic pain induces plasticity into Locus coeruleus over time: role of the Locus Coeruleus - Dorsal Reticular Nucleus Pathway.



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PS5-75

MiR-182-5p and miR-138-5p regulate Nogo-A/Nogo receptor expression, promoting neurite outgrowth in neural cells

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PS5-76

NeuroCLUEDO: which, when and where neurons die after spinal cord injury?

Dr. Manuel Nieto-Díaz¹, Nadia Ibañez Barranco¹, Dr. David Reigada¹, Dr. M. Asunción Barreda-Manso¹, Ms. Altea Soto¹, Dr. Teresa Muñoz-Galdeano¹, Dr. Rodrigo M. Maza¹

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PS5-77

CALCIUM TRANSPORT AT ER-MITOCHONDRIA CONTACT SITES IS MODULATED BY PYK2

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PS5-78

Modeling Parkinson's Disease With the Alpha-Synuclein Protein

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PS5-79

Acute effects of intermittent theta-burst stimulation in the remediation of impulsivity in hypersexual Parkinson's Disease.

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PS5-80

Small RNAs derived from differentially affected brain regions of Huntington's disease patients recapitulate diverse neuropathological outcomes in wild-type mice

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PS5-82

Cortical and hippocampal rhythmopathies in experimental models of brain metastasis

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PS5-83

From engrams to memory pathology in Down syndrome

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PS5-84

Pathological and therapeutic implications of myelin alterations in the Acid Sphingomyelinase Deficiency

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PS5-85

Human amygdala involvement in Alzheimer's disease revealed by MALDI Imaging and SWATH analysis.

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PS5-86

ApTOLL: A NOVEL REMYELINATING MOLECULE IN A MODEL OF MULTIPLE SCLEROSIS

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PS5-87

Local protein synthesis in health and disease

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PS5-88

Enhanced neuronal glycolysis causes cognitive impairment and metabolic syndrome in mouse

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PS5-89

Simultaneous reciprocal chemogenetic regulation of AgRP and POMC neurons reveals non-overlapping functions in control of metabolism.



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PS5-90

Non-viral vehicles and modified oligonucleotides for RNAi-based therapies for CNS damage

Altea Soto¹, Dr. Manuel Nieto-Diaz¹, Dr. David Reigada¹, Dr. M^a Asunción Barreda-Manso¹, Dr. Teresa Muñoz-Galdeano¹, Dr. Ramón Eritja², Dr. Ana Aviñó², Dr. Helmut Reinecke³, Dr. Carlos Elvira³, Dr. Enrique Martínez³, Dr. Alberto Gallardo³, Dr. Juan Rodríguez³, Dr. Paula Bosch³, Dr. Rodrigo M. Maza¹

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PS5-91

Hippocampal-targeted, cell type-specific manipulation of NFκB activity to treat brain injuries and diseases

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PS5-92

Modulating neuronal activity using phytochromes

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PS5-93

Longitudinal calcium imaging of neural activity in epileptic networks: in-vitro an in-vivo approach

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PS5-94

Experimental and modeling study of near infrared-laser stimulation in single and electrically coupled neurons

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PS5-95

Gene variants involved in the glutamate and calcium pathway in the epileptic model hamster GASH/Sal.

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PS5-96

Sex differences of acute and chronic administration of cannabidiol in the genetically audiogenic seizure-prone hamster GASH/Sal

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