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19^a

Reunión Anual de la Sociedad Española de

INVESTIGACIÓN SOBRE CANNABINOIDES

MADRID

22-24 Noviembre 2018



**19ª Reunión Anual de la
Sociedad Española de Investigación
sobre Cannabinoides**



Madrid

22-24 Noviembre, 2018

COMITÉ ORGANIZADOR

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Sociedad Española de Investigación sobre Cannabinoides

Departamento de Bioquímica y Biología Molecular III

Facultad de Medicina

Universidad Complutense de Madrid

28040 Madrid (España)

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UNIVERSIDAD FRANCISCO DE VITORIA

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PHYTOPLANT

INSTITUTO UNIVERSITARIO DE INVESTIGACIÓN EN NEUROQUÍMICA

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GW PHARMACEUTICALS



PROGRAMA CIENTÍFICO

Jueves, 22 de Noviembre

- 11:00-12:30** **Registro, entrega de documentación**
- 12:30-13:00** **Inauguración**
- Alberto López Rosado (Vicerrector de Investigación de la Universidad Francisco de Vitoria)
- Julián Romero (Presidente de la SEIC)
- 13:00-14:00** **Conferencia inaugural**
Discovery and application of chemical tools to study Endocannabinoid biosynthesis.
Mario Van der Stelt (Professor of Molecular Physiology. Leiden University, The Netherlands).

Presentada por Manuel Guzmán
- 14:00** **Comida**
- 15:30-17:00** **1ª Sesión de Comunicaciones Orales**
Papel neuroprotector del Sistema Cannabinoide
Moderada por Eva de Lago
- 15:30-15:45 O1.1
ORAL ADMINISTRATION OF THE CANNABIGEROLDERIVATIVE VCE-003.2 PROMOTES SVZ-NEUROGENESIS AND IS NEUROPROTECTIVE AGAINST MUTANT HUNTINGTIN-INDUCED NEURODEGENERATION.
Aguareles J., Paraíso-Luna J., Palomares B., Bajo R., Navarrete C., Ruiz A., García-Rincón D., García-Taboada E., Bellido ML., Guzmán M., Muñoz E., Galve-Roperh I.
- 15:45-16:00 O1.2
THE PHYTOCANNABINOID Δ^9 -THCV AS A NEUROPROTECTIVE AND ANTIDYSKINETIC AGENT IN EXPERIMENTAL MODELS OF PARKINSON'S DISEASE.
Burgaz S., Espadas I., Keifman E., Palomo-Garo C., García C., Fernández-Ruiz J., Moratalla R.
- 16:00-16:15 O1.3
IMPLICATIONS OF CB₂ CANNABINOID RECEPTORS IN THE NEURODEGENERATIVE PROCESS ASSOCIATED TO TAUOPATHIES.
Galán-Ganga M., Merchan-Rubira J., Jiménez-Moreno N., Castro-Sánchez S., Arribas-Blázquez M., Hernández F., Lastres-Becker I.

- 16:15-16:30 O1.4
ELECTROPHYSIOLOGICAL PROPERTIES OF HIPPOCAMPAL
SYNAPSES ARE MODIFIED BY FAAH DELETION IN 5xFAD
ALZHEIMER'S DISEASE MODEL.
Ruiz-Pérez G., Aparicio N., Tolón RM., Cravatt BF., Esteban JA.,
Romero J., Palenzuela R.
- 16:30-16:45 O1.5
CB₁ CONTROL OF HIPPOCAMPAL INHIBITORY CIRCUITS
MODULATES RECOGNITION MEMORY.
Soria-Gómez E.
- 16:45-17:00 O1.6
CHARACTERIZATION OF NEUROPATHIC PAIN IN A MOUSE MODEL
OF FRAGILE X: ROLE OF CANNABINOID RECEPTOR 2.
Ramírez López A., Cabañero D., Maldonado R.
- 17:00-18:00 **Café y 1ª Sesión de Posters****
- 18:00-19:00 **Homenaje a José Antonio Ramos****
- Julián Romero Paredes
- Carmen Guaza Rodríguez
- José Borrell
- Javier Fernández Ruiz

- 9:30-11:00** **2ª Sesión de comunicaciones orales**
Sistema Cannabinoide: efectos psiquiátricos y señalización
Moderada por Estefanía Moreno
- 9:30-9:45 O2.1
THE ENDOCANNABINOID SYSTEM INVOLVEMENT IN ALCOHOL CONSUMPTION IN RESPONSE TO DIFFERENT ANTIDEPRESSANT TREATMENT IN AN ANIMAL MODEL OF ALCOHOL SELF-ADMINISTRATION AND RELAPSE.
Ballesta A., Suárez J., Orio L., Arco R., Vargas A., Gómez R., Antón M., Serrano A., Javier Pavón J., Rodríguez F., Alén F.
- 9:45-10:00 O2.2
THE SEARCH OF EARLY MARKERS OF VULNERABILITY TO THE LONG-LASTING EFFECTS OF CANNABINOIDS: LOCOMOTION IN A NEW ENVIRONMENT, ELEVATED PLUS MAZE PERFORMANCE AND BRAIN ACTIVITY.
Orihuel J., Capellán R., Ucha M., Roura-Martínez D., Moreno M., Casquero-Veiga M., Soto-Montenegro ML., Oteo Vives M., Ibáñez Moragues M., Magro Calvo N., Morcillo MA., Ambrosio E., Higuera-Matas A.
- 10:00-10:15 O2.3
CB₁R-GRP78 INTERACTION: SHORT-CIRCUITING CANNABINOID SIGNALING?
Costas-Insua C., Moreno E., Maroto IB., Ruiz-Calvo A., Bajo-Grañeras R., García-Font N., Martín R., Botta J., Canela EI., Casadó V., Sánchez-Prieto J., McCormick PJ., Galve-Roperh I., Rodríguez-Crespo I., Guzmán M.
- 10:15-10:30 O2.4
DO THE CB₁ RECEPTOR AND GAP43 ACT HAND IN HAND AT THE NERVE TERMINAL?
Maroto IB., Costas-Insua C., Moreno E., Ruiz-Calvo A., Bajo-Grañeras R., García-Font N., Martín R., Botta J., Canela EI., Vicent Casadó V., Sánchez-Prieto J., McCormick PJ., Fernández de Sevilla D., Galve-Roperh I., Rodríguez-Crespo I., Guzmán M.
- 10:30-10:45 O2.5
MOLECULAR AND FUNCTIONAL INTERACTION BETWEEN GPR18 AND CANNABINOID CB₂ G-PROTEIN-COUPLED RECEPTORS: RELEVANCE IN NEURODEGENERATIVE PROCESSES.
Reyes-Resina I., Navarro G., Aguinaga G., Casanovas M., Canela EI., Schoeder CT., Zaluski M., Kiec-Kononowicz K., Saura CA., Müller CE., Franco R.

- 10:45-11:00 O2.6
CANNABIDIOL SKEWS BIASED AGONISM AT CANNABINOID CB₁ AND CB₂ RECEPTORS WUTH SMALLER EFFECT IN CB₁-CB₂ HETEROREPTOR COMPLEXES.
Rivas-Santisteban R., Navarro G., Reyes-Resina I., Sánchez de Medina V., Morales P., Casano S., Ferreiro-Vera C., Lillo A., Lillo J., Aguinaga D., Jagerovic N., Nadal X., Franco R.
- 11:00-12:00 Café y 2ª Sesión de Posters**
- 12:00-13:00 3ª Sesión de comunicaciones orales**
Papel del Sistema Cannabinoide en patologías neonatales
Moderada por Javier Palazuelos
- 12:00-12:15 O3.1
ROLE OF CB₂ RECEPTOR IN THE NEUROPROTECTIVE EFFECT OF CBD IN A NEONATAL RAT MODEL OF HYPOXIA ISCHEMIA.
Ceprian M., Villa M., Pages G., Vargas C., Del Pozo A., Olmos-Alonso A., Hind W., Mechoulam R., Fernández-Ruiz J., Gutiérrez-Rodríguez A., Pazos MR., Martínez-Orgado J.
- 12:15-12:30 O3.2
CANNABIDIOL REDUCES INTRAVENTRICULAR HAEMORRHAGE EXTENSION AND SECONDARY BRAIN DAMAGE IN NEWBORN RATS.
Del Pozo A., Villa M., Pagés G., Vargas C., Ceprián M., Hind W., Martínez-Orgado J., Gutiérrez-Rodríguez A.
- 12:30-12:45 O3.3
ACUTE Δ⁹-THC ADMINISTRATION ACCELERATES OLIGODENDROCYTE DEVELOPMENT AND REGENERATION.
Huerga A., Aguado T., Guzman M., Galve-Roperh I., Palazuelos J.
- 12:45-13:00 O3.4
BENEFICIAL EFFECTS OF CANNABIDIOL IN SEVERE LUNG DAMAGE FOLLOWING MECONIUM ASPIRATION IN NEWBORN PIGLETS.
Vargas C., Arruza L., Barata L., Rodríguez MJ., Vierge E., Gutiérrez-Rodríguez A., Pagés G., Del Pozo A., Villa M., Hind W., Martínez-Orgado J.
- 13:00-14:00 Hot Topic**
Medical cannabis industry: a booming business with many opportunities but also challenges for researchers.
Ester Aso (Profesora del Departamento de Patología y Terapéutica Experimental de la Universitat de Barcelona)

Presentada por Fernando Berrendero
- 14:00 Comida**

15:30-16:45	4ª Sesión de comunicaciones orales <i>Efectos periféricos de los cannabinoides I</i> Moderada por Andrés Ozaita
15:30-15:45	O4.1 TARGETING THE ENDOCANNABINOID SYSTEM FOR THE TREATMENT OF ENDOMETRIOSIS. <u>Escudero-Lara A.</u> , Argerich J., Cabañero D., Maldonado R.
15:45-16:00	O4.2 TRANSCRIPTOMIC AND PROTEOMIC PROFILING ANALYSIS OF HUMAN KERATINOCYTES EXPOSED TO CANNABIDIOL. <u>Garrido-Rodríguez M.</u> , García V., Millán E., Collado JA., García-Marín A., Muñoz E.
16:00-16:15	O4.3 Δ^9 -TETRAHYDROCANNABINOL CONSUMPTION PROMOTES APPETITE BY CANNABINOID CB ₁ - GHRELIN GHSR RECEPTORS HETEROMER. <u>Lillo A.</u> , Rivas R., Reyes-Resina I., Lillo J., Navarro G., Franco R.
16:15-16:30	O4.4 EFFECT OF THE Δ^9 -TETRAHYDROCANNABINOL OVER APPETITE. <u>Lillo J.</u> , Rivas R., Reyes-Resina I., Lillo A., Navarro G., Franco R.
16:30-16:45	O4.5 THE PERIPHERAL ENDOCANNABINOID SYSTEM AS A TARGET FOR RECOGNITION MEMORY ENHACEMENT IN NORMAL NAÏVE MICE AND IN A MURINE MODEL OF INTELLECTUAL DISABILITY. <u>Martínez-Torres S.</u> , Losada-Ruiz P., Martínez-Gallego I., Ortega-Alvaro A., Rodríguez-Moreno A., Maldonado R., Ozaita A.
16:45-17:15	Café
17:15-17:45	Presentación del número especial de Biochemical Pharmacology: <i>Cannabinoids Pharmacology/Therapeutics in Spain Special Issue.</i> Presentado por Javier Fernández-Ruiz
17:45-18:00	Presentación del documental: <i>Cannabis medicinal, la investigación sobre los cannabinoides.</i> Presentado por José Antonio Ramos
18:00-19:00	Asamblea de socios de la SEIC
21:00	Cena Congreso

- 10:00-11:00** **Café y 3ª Sesión de Posters**
- 11:00-12:30** **5ª Sesión de comunicaciones orales**
Efectos periféricos de los cannabinoides II y Cáncer
Moderada por Paula Morales
- 11:00-11:15 O5.1
STUDY OF HYPOTHALAMIC AND PLASMATIC ENDOCANNABINOIDS FLUCTUATIONS: IMPORTANCE DURING THE DEVELOPMENT OF OBESITY IN MALE AND FEMALE MICE.
Miralpeix C., Fosch A., Casas F., Rodríguez R., Casals N.
- 11:15-11:30 O5.2
TARGET CHARACTERIZATION OF Δ^9 -TETRAHYDROCANNABINOLIC ACID. IMPLICATIONS IN METABOLIC SYNDROME.
Palomares B., Ruiz-Pino F., Garrido-Rodríguez M., Morrugares R., Velasco I., Sánchez-Garrido MA., Vázquez MJ., Gómez-Cañas M., Gonzalo C., Fernández-Ruiz J., Nadal X., Ferreiro-Vera C., Calzado MA., Tena-Sempere M., Muñoz E.
- 11:30-11:45 O5.3
THERAPEUTIC TARGETING OF HER2-CB₂R HETEROMERS IN HER-POSITIVE BREAST CANCER.
Blasco-Benito S., Moreno E., Seijo-Vila M., Tundidor I., Andradas C., Caffarel M., Caro-Villalobos M., Urigüen L., Diez-Alarcia R., Moreno-Bueno G., Hernández L., Manso L., Homar P., McCormick PJ., Bibic L., Bernadó-Morales C., Arribas J., Canals M., Casadó V., Canela EI., Guzmán M., Pérez-Gómez E., Sánchez C.
- 11:45-12:00 O5.4
MOLECULAR MECHANISM UNDERLYING THC-INDUCED STIMULATION OF DE NOVO SYNTHESIS OF SPHINGOLIPIDS IN GLIOMA CELLS.
Martínez-Martínez E., Moraleda-Esteban R., García-López R., Castillo-Lluva S., Orea-Soufi A., Antonioli M., Fimia GM., Vicente R., Hernández-Tiedra S., Velasco G.
- 12:00-12:15 O5.5
APPRAISING THE "ENTOURAGE EFFECT": ANTITUMOR ACTION OF A PURE CANNABINOID VERSUS A BOTANICAL DRUG PREPARATION IN PRECLINICAL MODELS OF BREAST CANCER.
Blasco-Benito S., Seijo-Vila M., Caro-Villalobos M., Tundidor I., Andradas C., García-Taboada E., Wade J., Smith S., Guzmán M., Pérez-Gómez E., Gordon M., Cristina Sánchez.

12:15-12:30

Premio SEIC a la mejor publicación predoctoral

CHRONIC CANNABIS PROMOTES PRO-HALLUCINOGENIC SIGNALING OF 5-HT_{2A} RECEPTORS THROUGH AKT/mTOR PATHWAY.

Ibarra-Lecue I., Mollinedo-Gajate I., Meana J.J., Callado L.F., Diez-Alarcia R, Urigüen L.

Presentado por Onintza Sagredo

12:30-12:45

Premio SEIC a la mejor publicación postdoctoral

PATHWAY-SPECIFIC CONTROL OF STRIATAL NEURON VULNERABILITY BY CORTICOSTRIATAL CANNABINOID CB₁ RECEPTORS.

Ruiz-Calvo A., Maroto I.B., Bajo-Grañeras R., Chiarlone A., Gaudioso A., Ferrero J.J., Resel E., Sánchez-Prieto J., Rodríguez-Navarro J.A., Marsicano G., Galve-Roperh I., Bellocchio L., Guzmán M.

Presentado por José Martínez Orgado

13:00-14:00

Cocktail de despedida, entrega de premios y Clausura

P1.1

EFFECT OF MONOACYLGLYCEROL LIPASE INHIBITION ON NEURON SURVIVAL: ROLE OF NEURON-GLIA INTERACTION.

Abellanas MA., Rojo-Bustamante E., Íñigo-Marco I., Luquin E., Vinueza R., Zamarbide M., Larrea L., Arrasate M., Aymerich MS.

P1.2

DIFFERENT MARKERS OF ASTROCYTES TO DETECT ASTROGLIAL CB₁ RECEPTORS ON PREPARATIONS FOR ELECTRON MICROSCOPY: GLAST VS GFAP.

Achicallende S., Bonilla-Del Río I., Egaña-Huguet J., Terradillos I., Buceta I., Rico-Barrio I., Puente N., Elezgarai I., Gerrikagoitia I., Grandes P.

P1.3

MINOCYCLINE TREATMENT MODIFIES SPATIAL MEMORY, A β CLEARANCE AND CYTOKINE EXPRESSION IN 5xFAD/FAAH^{-/-} MICE.

Aparicio N., Grande MT., Ruiz-Pérez G., Cravatt BF., Tolón RM., Romero J.

P1.4

THE ROLE OF MICROGLIAL CB₂ RECEPTORS IN BETA AMYLOID PHAGOCYTOSIS: IN VITRO AND IN VIVO STUDIES.

Benito I., Ruiz de Martín Esteban S., Martínez Relimpio AM., Barreda-Manso MA., Tolón RM., Hillard CJ., Romero J., Grande MT.

P1.5

THE AWAKE CLOSED HEAD IMPACT (ACHI) MODEL OF MILD TRAUMATIC BRAIN INJURY ALTERS CANNABINOID TYPE-1 RECEPTOR EXPRESSION IN THE ADOLESCENT RAT HIPPOCAMPUS.

Bonilla-Del Río I., Buceta I., Egaña-Huguet J., Achicallende S., Puente N., Elezgarai I., Triviño J., Pinar C., Neale K., Christie BR., Nahirney PC., Grandes P.

P1.6

THE NEUROPROTECTIVE EFFECTS OF CANNABIDIOL ARE MEDIATED BY ITS ACTIVITY AT TYPE 1 SIGMA RECEPTORS.

Cortés-Montero E., Onetti Y., Rodríguez-Muñoz M., Garzón J., Sánchez-Blázquez P.

P1.7

2-AG REDUCES THE EXPRESSION OF CSPGs IN ASTROCYTES AND PROMOTES OLIGODENDROCYTE DIFFERENTIATION UNDER INHIBITORY CONDITIONS.

Feliú A., Mecha M., Mestre L., Yong VW., Guaza C.

P1.8

CB₁ RECEPTOR ACUTE EMBRYONIC KNOCKDOWN INDUCES A DELAY IN NEURONAL MATURATION: IMPLICATIONS IN FOCAL CORTICAL DYSPLASIA.

García-Rincón D., den Boon FS., De Salas-Quiroga A., Hees JT.; Paraíso-Luna J., Agualeles J., Pérez-Jiménez A., Guzmán M., Werkman T., de la Prida LM., Chameau P., Galve-Roperh I.

P1.9

ANATOMY AND FUNCTION OF THE ENDOCANNABINOID SYSTEM IN THE MOUSE DENTATE GYRUS OF TRPV1-KO MICE.

Egaña-Huguet J., Bonilla-Del Río I.¹, Buceta I.^{1,2}, Soria-Gomez E., Mendizabal-Zubiaga JL., Puente N., Elezgarai I., Grandes P.

P1.10

THE ADULT SUBVENTRICULAR ZONE: CAN 2-AG PROMOTE OLIGODENDROGENESIS FROM STEM CELLS BY TARGETING MICROGLIA?

Mecha M., Feliú A., Mestre L., Carrillo-Salinas FJ., Guaza C.

P1.11

ADDRESSING THE ROLE OF CB₁ RECEPTORS IN MYELIN BIOLOGY: IMMUNOHISTOCHEMICAL AND ELECTRON MICROSCOPY STUDIES IN CB1 KNOCKOUT MICE.

Manterola A., Bernal-Chico A., Chara JC., Pongor CI., Ruhwedel T., Möbius W., Lutz B., Trotter J., Katona I., Matute C., Mato S.

P2.1

AGGRAVATION OF THE PATHOLOGICAL PHENOTYPE AFTER GENETIC ABLATION OF THE CB₂ RECEPTOR IN TDP-43 TRANSGENIC MICE, A MODEL OF AMYOTROPHIC LATERAL SCLEROSIS.

Gómez-Almería M., Rodríguez-Cueto C., García Toscano L., Romero J., Hillard CJ., Fernández-Ruiz J., de Lago E.

P2.2

INVESTIGATION IN THE ENDOCANNABINOID SYSTEM IN A MODEL OF FRONTOTEMPORAL DEMENTIA BASED IN OVEREXPRESSION OF TDP-43.

Santos-García I., Rodríguez-Cueto C., Fernández-Ruiz J., de Lago E.

P2.3

HYPOXIC-ISCHEMIC-INDUCED BRAIN DAMAGE LEADS TO A BLADDER DISFUNCTION IN NEWBORNS BUT NOT IN ADULT MICE.

Santos L., Amores M., Martínez L., López-Gómez L., Hernández M., Fernandes VS., Gómez-Ruiz M., Ribeiro AS., Pazos MR.

P2.4

EXPRESSION AND FUNCTIONALITY OF CB₁-5HT_{2A} RECEPTOR HETEROMERS IN OLFACTORY NEUROEPITHELIUM CELLS OF PATIENTS WITH SCHIZOPHRENIA AND THE MODULATION BY CANNABIS USE.

Moreno E., Guinart D., Galindo L., Cuenca-Royo A., Fernández C., Menoyo E., Julbe M., Pérez V., Canela EI., Casadó V., De la Torre R., Robledo P.

P2.5

IMPAIRMENT OF FEAR EXTINCTION INDUCED BY OREXIN-A IS MODULATED BY 2-ARACHIDONOYLGLYCEROL.

Flores A., Ten-Blanco M., Piscitelli F., Cristino L., Di Marzo V., Maldonado R., Berrendero F.

P2.6

MICROGLIAL ACTIVATION AND *DE NOVO* CANNABINOID TYPE-2 RECEPTOR EXPRESSION IN A MOUSE MODEL OF TEMPORAL LOBE EPILEPSY.

Terradillos I., Achicallende S., Egaña-Huguet J., Bonilla-Del Río I., Rico-Barrio I., Buceta I., Reguero L., Mendizabal-Zubiaga JL., Romero J, Grande MT., Hillard CJ., Puente N., Elezgarai I., Grandes P.

P2.7

HU-308, A CB₂-RECEPTOR AGONIST, AUGMENTS STEM CELL NEUROPROTECTIVE EFFECTS IN A RAT MODEL OF NEONATAL STROKE.

Villa M., Ceprián M., Del Pozo A., Pagés G., Vargas C., Gutiérrez-Rodríguez A., Raphael Mechoulam, Martínez-Orgado J.

P2.8

DIAGNOSTIC STABILITY OF CANNABIS-INDUCED PSYCHOSIS.

Cambra J., Arias P., Eguía J., Arias R.

P2.9

DIFFERENCES IN THE PSYCHIATRIC COMORBIDITY AND COGNITIVE PERFORMANCE BETWEEN PATIENTS WITH ALCOHOL USE DISORDER WITH AND WITHOUT CANNABIS USE DISORDER.

Llorente del Rey L., Arias P., Eguía J., Makarovsky N.

P2.10

CLINICAL DIFFERENCES BETWEEN PSYCHOSIS IN CANNABIS DEPENDENCE AND SCHIZOPHRENIA WITHOUT ASSOCIATED DRUG DEPENDENCE.

Rentero D., Arias P., Eguía J., Sánchez-Romero S., Arias C.

P2.11

CHRONIC ETHANOL INDUCES MORPHOLOGICAL CHANGES ON HIPPOCAMPAL MICROGLIA, WHICH ARE REVERTED BY PHARMACOLOGICAL BLOCKADE OF FAAH WITH URB597.

Fernández-Arjona MM., Rivera P., Silva-Peña D., Blanco E., Vargas A., López-Ávalos MD., Grondona JM., Serrano A., Pavón FJ., Rodríguez de Fonseca F., Suárez J.

P2.12

OLEOYLETHANOLAMIDE MODULATES BDNF-ERK SIGNALING AND NEUROGENESIS IN THE HIPPOCAMPUS OF RATS EXPOSED TO Δ^9 -THC AND ETHANOL BINGE DRINKING AT ADOLESCENCE.

Silva-Peña D., Rivera P., Alén F., Vargas A., Rubio L., García-Marchena N., Pavón FJ., Serrano A., Rodríguez de Fonseca F., Suárez J.

P3.1

STRUCTURAL INSIGHTS INTO THE β ARRESTIN-CB₁ RECEPTOR INTERACTION: NMR AND CD STUDIES ON MODEL PEPTIDES.

Morales P., Bruix M., Jiménez MA.

P3.2

ANTIDEPRESSANT-LIKE EFFECT OF INFRALIMBIC CANNABIDIOL ADMINISTRATION IN RAT: INVOLVEMENT OF THE mTOR PATHWAY AND BRAIN CELLULAR ACTIVATION.

Florensa-Zanuy E., Gómez-Acero L., Vasturzo D., Architravo A., Castro E., Díaz A., Pilar-Cuéllar F., Pazos A.

P3.3

REGIONAL HETEROGENEITY OF 2-AG SYNTHESIZING AND DEGRADING MACHINERIES IN OLIGODENDROCYTES. INTRODUCING MULTIPLE REACTION MONITORING FOR QUANTIFICATION OF PROTEINS OF THE ENDOCANNABINOID SYSTEM.

Esteban PF., García-Ovejero D., Moreno-Luna R., Paniagua-Torija B., Alba ², Gema ², Arevalo-Martin A., Molina-Holgado E.

P3.4

CB₁ RECEPTOR SIGNALING PROMOTES EMBRYONIC STEM CELL DIFFERENTIATION INTO CORTICAL DEEP-LAYER LIKE NEURONS.

Paraíso-Luna J., Agualeles J., García-Rincón D., de Salas-Quiroga A., Díaz-Alonso J., García-Taboada E., Liste I., Cappello S., Guzmán M., Galve-Roperh I.

P3.5

CANNABIDIOL PREVENTS FUNCTIONAL IMPAIRMENT IN A NEWBORN RAT MODEL OF PREMATURITY-ASSOCIATED CEREBRAL PALSY.

Pagés G., Del Pozo A., Villa M., Vargas C., Martínez-Orgado J., Gutiérrez-Rodríguez A.

P3.6

INCREASED EXPRESSION OF CANNABINOID CB₂ AND SEROTONIN 5-HT_{1A} HETERORECEPTOR COMPLEXES IN A MODEL OF NEWBORN HYPOXIC-ISQUEMIC BRAIN DAMAGE.

Navarro G., Villa M, Morales P., Reyes-Resina I., Lillo J., Gutiérrez-Rodríguez A., Jiménez J., Jagerovic N., Martínez-Orgado J., Franco R.

P3.7

ANXIOGENIC AND DEPRESSIVE-LIKE BEHAVIOR IN CB₁^{+/-} AND CB₁^{-/-} MICE.

Soriano D., Alicia Brusco A., Caltana L.

P3.8

CHANGES IN CANNABINOID RECEPTOR 1 INTERACTOME DURING NEURONAL MATURATION.

Molina-Holgado E., Paniagua-Torija B., Moreno-Luna R., Esteban PF., Arredondo LF., Zimmer A., Arevalo-Martin A., Garcia-Ovejero D.

P3.9

NEUROPROTECTIVE POTENTIAL OF TARGETING CB₁ AND GPR55 RECEPTORS IN PARKINSON'S DISEASE.

Martínez-Pinilla E., Aguinaga D., Navarro G., Rico AJ., Oyarzábal J., Sánchez-Arias JA., Lanciego JL., Franco R.

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PERINATAL HIGHLY CALORIC PALATABLE DIET INDUCES SEX-SPECIFIC CHANGES IN ENDOCANNABINOID SIGNALING AND LIPID METABOLISM OF ADULT RAT OFFSPRING HYPOTHALAMUS AND HYPOTHALAMIC ASTROCYTES CELL CULTURE.

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ROLE OF FAAH IN BREAST DEVELOPMENT AND CANCER.

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