

20

Reunión Anual de la Sociedad Española de INVESTIGACIÓN SOBRE CANNABINOIDES

BARCELONA

21-23 Noviembre 2019



Patrocina:



20ª Reunión Anual de la
Sociedad Española de Investigación
sobre Cannabinoides



Barcelona
21-23 Noviembre, 2019

COMITÉ ORGANIZADOR

Andrés Ozaita Mintegui (Universidad Pompeu Fabra, Barcelona)
Ester Aso Pérez (Universidad de Barcelona)
Rafael Maldonado López (Universidad Pompeu Fabra, Barcelona)
Patricia Robledo Montoya (Instituto Hospital del Mar de Investigaciones Médicas (IMIM),
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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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INSTITUTO HOSPITAL DEL MAR DE INVESTIGACIONES MÉDICAS (IMIM)



SCIENTIFIC PROGRAM

Thursday, 21st November

- 11:00-12:30 Registration**
- 12:30-13:00 Welcome and opening remarks**
- Andrés Ozaita (Local organizing committee)
- Ester Aso (Local organizing committee)
- Julián Romero (President of the SEIC)
- 13:00-14:00 Opening Conference: *Endogenous cannabinoids and reward prediction.***
Joseph Cheer (Professor of Anatomy and Neurobiology and Psychiatry, University of Maryland School of Medicine)

Presented by Patricia Robledo
- 14:00 Lunch**
- 15:30-17:00 Oral Session 1: *Cannabinoid system in neurodegeneration and neuroprotection***
Moderated by Marisol Aymerich
- 15:30-15:45 O1.1
THE ROLE OF MICROGLIAL CB₂ RECEPTOR IN ALZHEIMER'S DISEASE: A NEW INDUCIBLE CB₂-KO MICROGLIA-TARGETED MOUSE MODEL.
Benito-Cuesta I., Ruiz de Martín Esteban S., Martínez Relimpio AM., Tolón RM., Hillard CJ., Romero J., Grande MT.
- 15:45-16:00 O1.2
ALTERATIONS IN THE HIPPOCAMPAL ENDOCANNABINOID SYSTEM 5XFAD TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE.
Medina D., Rosell-Valle C., López-Gambero AJ., Navarro JA., Decara JM., Suarez J., Rodríguez de Fonseca F.
- 16:00-16:15 O1.3
CENTRAL AND PERIPHERAL CANNABINOID SIGNALING IS ALTERED IN A 5x FAD MODEL OF ALZHEIMER'S DISEASE WITH PREMATURE AGING-INDUCED CHANGES IN ENERGY METABOLISM.
López-Gambero AJ., Rosell-Valle C., Medina D., Navarro JA., Vargas A., Rodríguez de Fonseca F., Suárez J.

- 16:15-16:30 O1.4
NEUROPROTECTION WITH CB₁/CB₂ RECEPTOR AGONISTS IN A MURINE MODEL REMINISCENT OF TDP-43-DEPENDENT FRONTOTEMPORAL DEMENTIA.
Santos-García I., Rodríguez-Cueto C., García-Toscano L., Fernández-Ruiz J., de Lago E.
- 16:30-16:45 O1.5
NEUROPROTECTIVE ACTIVITY OF CANNABIGEROL DERIVATIVES IN *IN VITRO* AND *IN VIVO* MODELS OF PARKINSON'S DISEASE.
Burgaz S., Gonzalo-Consuegra C., Muñoz E., Gómez-Cañas M., Fernández-Ruiz J., García C.
- 16:45-17:00 O1.6
NEUROPROTECTIVE EFFICACY OF CANNABIDIOL FOR VERY IMMATURE BRAIN DAMAGE OF INFLAMMATORY ORIGIN IN NEWBORN RATS.
Silva L., Villa M., del Pozo A., Vargas C., Álvarez L., Martínez M., Gutiérrez-Rodríguez A., Martínez-Orgado J.
- 17:00-18:15 Coffee and Poster Session 1**
- 18:15-19:30 Oral Session 2: *Cannabinoid system and pain***
Moderated by Raquel Abalo
- 18:15-18:30 O2.1
ANALGESIC EFFICACY OF A COMBINATION OF CANNABINOIDS AGAINST MODERATE-TO-SEVERE PAIN IN NEWBORN RATS.
Álvarez-Callejo L., del Prado L., del Pozo A., Villa M., Silva L., Martínez M., Gutiérrez-Rodríguez A., Martínez-Orgado J.
- 18:30-18:45 O2.2
EVALUATION OF THE ANALGESIC EFFECT OF PHYTOCANNABINOIDS-BASED PREPARATIONS FOR ORAL ADMINISTRATION IN A GROUP OF PATIENTS WITH A HISTORY OF CHRONIC PAIN: A PILOT STUDY.
Bolaños Terán N., Marín Giraldo MP., Muñoz Martínez MA., Rojo Bustamante E.
- 18:45-19:00 O2.3
ROLE OF THE ENDOCANNABINOID SYSTEM IN A MOUSE MODEL OF FRAGILE X UNDERGOING NEUROPATHIC PAIN.
Ramírez López A., Pastor A., de la Torre R., Cabañero D., Maldonado R.

- 19:00-19:15 O2.4
THE EXPRESSION OF GENES ENCODING PROTEINS RELATED TO THE ENDOCANNABINOID SYSTEM IN PAIN AND EMOTION PROCESSING BRAIN AREAS IS ALTERED IN MALE RATS TREATED WITH A SINGLE SUB-NOXIOUS DOSE OF THE ANTI-CANCER DRUG CISPLATIN.
Hopkins M., Bagüés A., López-Tofiño Y., Abalo R., Llorente-Berzal A.
- 19:15-19:30 O2.5
SEX-DEPENDENT NOCICEPTIVE BEHAVIOURS IN A PERIPHERAL MODEL OF NEUROPATHIC PAIN: IS THERE A ROLE FOR THE BRAIN'S ENDOGENOUS CANNABINOID SYSTEM?
Boullon L., Hopkins M., Saqib J., Finn DP., Llorente-Berzal A.

- 9:00-10:15** **Oral Session 3: *Cannabinoid system signaling***
Moderated by Emma Puighermanal
- 9:00-9:15 O3.1
INVESTIGATION IN THE BINDING PROFILE AND BIOLOGICAL ACTIVITY OF (+)-ENANTIOMERS OF NATURALLY OCCURRING CANNABINOIDS.
Gonzalo-Consuegra C., Gómez-Cañas M., Lubrini F., Rodríguez-Carreiro S., Morales P., Jagerovic N., Winkler M., Fiebich BL., Goetz MR., Eduardo Muñoz E., Fernández-Ruiz J.
- 9:15-9:30 O3.2
POTENTIATION OF CANNABINOID SIGNALING IN MICROGLIA BY ADENOSINE A_{2A} RECEPTOR ANTAGONIST.
Raich I., Reyes I., Aguinaga D., Lillo A., Jiménez J., Borroto-Escuela DO., Ferreiro-Vera C., Canela EI., Sánchez de Medina V., del Ser-Badia A., Fuxe K., Carlos A. Saura CA., Franco R., Navarro G.
- 9:30-9:45 O3.3
ROLE OF FAAH IN BREAST DEVELOPMENT.
Tundidor I., Blasco-Benito S., Seijo-Vila M., Caro-Villalobos M., Guzmán M., Sánchez C., Pérez-Gómez E.
- 9:45-10:00 O3.4
ENDOCANNABINOID RECEPTORS CONTRIBUTE SIGNIFICANTLY TO MULTIPLE FORMS OF LONG-TERM DEPRESSION IN THE RAT HIPPOCAMPUS.
Fontaine CF., Grafe EL., Pinar C., Grandes P., R Christie BR.
- 10:00-10:15 O3.5
EFFECTS OF A REPEATED LOW DOSE OF Δ^9 -TETRAHYDROCANNABINOL IN MEMORY PERFORMANCE IN MICE.
Galera-López L., Salgado-Mendialdúa V., Hoffman A., Lupica C., Maldonado R., Ozaita A.
- 10:15-11:30** **Coffee and Poster Session 2**

- 11:30-12:30 Oral Session 3 (CONT)**
- 11:30-11:45 O3.6
DISCOVERING THE RELATIONSHIP BETWEEN SCHIZOPHRENIA AND CANNABIS USE: DIFFERENTIAL AKT FUNCTIONAL STATUS AND 5-HT_{2A}R EXPRESSION IN PLATELETS OF PATIENTS.
Ibarra-Lecue I., Barrena-Barbadillo R., Unzueta-Larrinaga P., Díez-Alarcía R., Landabaso MA., Mendibil B., Callado LF., Urigüen L.
- 11:45-12:00 O3.7
ALCOHOL-INDUCED CONDITIONED PLACE PREFERENCE IS MODULATED BY CB₂ CANNABINOID RECEPTORS AND MODIFIES LEVELS OF ENDOCANNABINOIDS IN THE MESOCORTICOLIMBIC SYSTEM.
Martín-Sánchez A., Warnault V., Montagud-Romero S., Pastor A., Mondragón N., De La Torre R., Valverde O.
- 12:00-12:15 O3.8
CBD-INDUCED REDUCTION OF COCAINE VOLUNTARY INTAKE: CRUCIAL IMPLICATION OF NEURAL PROLIFERATION AND DIFFERENTIATION IN THE DENTATE GYRUS.
Luján MA., Cantacorps L., Valverde O.
- 12:15-12:30 O3.9
TARGETING CB₁ RECEPTOR IN GLUTAMATERGIC NEURONS OF PRELIMBIC CORTEX TO STUDY RESILIENCE TO DEVELOP FOOD ADDICTION.
Senabre E., Domingo-Rodriguez L., Ruiz de Azúa I., Lutz B., Martín-García E., Maldonado R.
- 12:30-13:30 Hot Topic: *Hopes and fears of the adolescent brain and the developing endocannabinoid system.***
Alejandro Higuera Matas (Department of Psychobiology, School of Psychology, UNED).

Presented by Ester Aso
- 13:30-15:00 Lunch**

- 15:00-16:30** **Roundtable: *Global trends in cannabis regulation: where are we going?***
-Joseph Cheer (Professor of Anatomy and Neurobiology and Psychiatry, University of Maryland School of Medicine)
-Michael Evans-Brown (Project Manager European Monitoring Centre for Drugs and Drug Addiction)
-Sonia Moncada Bueno (General Director Dept. Families, Infancy, Education and Youth, Madrid)
-Manuel Guzmán Pastor (Professor of Biochemistry and Molecular Biology, Complutense University; Vicepresident Spanish Medicinal Cannabis Observatory, Madrid)
- Moderated by Rafael Maldonado (Professor of Pharmacology, University Pompeu Fabra, Barcelona).
- 16:30-17:30** **Coffee and Poster Session 3**
- 17:30-19:00** **SEIC Members Annual Assembly**
- 21:00** **SEIC Banquet**

- 9:00-11:00** **Oral Session 4: *Other therapeutic opportunities***
Moderated by Edgar Soria
- 9:00-9:15 O4.1
IMPAIRED URINARY BLADDER FUNCTION AFTER HYPOXIC-ICHEMIA
BRAIN INJURY. POTENTIAL THERAPEUTIC EFFECTS OF CBD.
Fernandes VS., Ceprián M., Santos L. , Amores M., López-Gómez L., Hernández
M., Gómez-Ruiz M., Ribeiro AS., Pazos MR.
- 9:15-9:30 O4.2
PRE- AND POST-INSULT ADMINISTRATION OF CANNABIDIOL
PREVENTS INTRAVENTRICULAR HEMORRHAGE-INDUCED BRAIN
DAMAGE IN VERY IMMATURE NEWBORN RATS.
Del Pozo Sanz A., Villa M., Vargas C., Martínez M., Silva L., Gutiérrez-Rodríguez
A., Martínez-Orgado J.
- 9:30-9:45 O4.3
β-CARYOPHYLLENE AS AN ANTICONVULSANT AND DISEASE-
MODIFYING AGENT IN A MURINE MODEL OF DRAVET SYNDROME.
Alonso C., Satta V., Díez P., Fernández-Ruiz J., Sagredo O.
- 9:45-10:00 O4.4
CANNABIDIOL AS A NOVEL TREATMENT FOR MITOCHONDRIAL
DISEASE.
Puighermanal E., Sanz E., Quintana A.
- 10:00-10:15 O4.5
ALTERATIONS IN COGNITIVE FUNCTIONS AND THE RELEVANCE OF
TARGETING ENDOCANNABINOID INACTIVATION IN SCA-3.
Luna-Piñel E., Isla S., Martín-Baquero R., Hernández-Fisac I., Hernández-Gálvez
ML., Fernández-Ruiz J., Gómez-Ruiz M.
- 10:15-10:30 O4.6
LONG-TERM CANNABINOID TYPE-1 RECEPTOR INHIBITION IMPROVES
MEMORY PERFORMANCE IN A MOUSE MODEL OF DOWN SYNDROME.
Vázquez-Oliver A., Pizarro N., Piazza PV., de la Torre R., Maldonado R., Ozaita A.
- 10:30-11:00** **Coffee**

11:00-11:30 Oral Session 3 (CONT)

11:00-11:15 O4.7
VCE-004.8 INDUCES DEPHOSPHORYLATION OF HYPOXIA INDUCIBLE FACTOR (HIF) PROLYL HYDROXYLASE 2 AND ACTIVATES THE HIF PATHWAY.
Morrugares R., Correa-Sález A., Garrido-Rodríguez M., Calzado MA., Muñoz E.

11:15-11:30 O4.8
INTRIGUING EFFECTS OF Δ^9 -TETRAHYDROCANNABINOLIC ACID AND CANNABIDIOL ON DIABETIC NEPHROPATHY IN MALE MICE.
Carmona B., Appendino G., Muñoz E., Gonzalez Mariscal I.

11:30-11:45 Best 2019 Predoctoral Publication Award
CANNABINOIDS DIFFERENTIALLY MODULATE CORTICAL INFORMATION TRANSMISSION THROUGH THE SENSORIMOTOR OR MEDIAL PREFRONTAL BASAL GANGLIA CIRCUITS.
Antonazzo M., Gutiérrez-Ceballos A., Bustinza I., Ugedo L., Morera-Herreras T.

Presented by Juan Suarez

11:45-12:00 Best 2019 Postdoctoral Publication Award
THERAPEUTIC TARGETING OF HER2-CB₂R HERETOMERS IN HER2-POSITIVE BREAST CANCER.
Blasco-Benito S., Estefanía Moreno E., Seijo-Vila M., Tundidor I., Andradas C., Caffarel MM., Caro-Villalobos M., Urigüen L., Diez-Alarcia R., Moreno-Bueno G., Hernández L., Manso L., Homar-Ruano P., McCormick PJ., Bibic L., Bernadó-Morales C., Arribas J., Canals M., Casadó V., Canela EI., Guzmán M., Pérez-Gómez E., Sánchez C.

Presented by Onintza Sagredo

12:00-12:30 Awards and Closing Keynote

P1.1

THE MATERNAL IMMUNE ACTIVATION RAT MODEL OF SCHIZOPHRENIA AND THE EFFECTS OF THC REPEATED ADMINISTRATION IN YOUNG ADULTHOOD. FOCUS ON GASTROINTESTINAL MOTILITY.

Gálvez-Robleño C., Lamanna N., Bagüés A., Romero-Miguel D., López-Tofiño Y., Casquero-Veiga M., Vera G., Desco M., Soto-Montenegro ML., Abalo R.

P1.2

CPT1C AS THE FIRST NEGATIVE REGULATOR OF THE ENDOCANNABINOIDS α/β -HYDROLASE CONTAINING 6 (ABHD6).

Miralpeix C., Reguera C., Fosch A., Navarro G., Casas M., Casas F., Rodríguez-Rodríguez R., Casals N.

P1.3

GAP43, A NEW CB₁R INTERACTOR THAT DECREASES RECEPTOR FUNCTION IN HIPPOCAMPAL MOSSY CELL-GRANULAR CELL SYNAPSES.

Maroto IB., Costas-Insua C., Moreno E., Berthoux C., Ruiz-Calvo A., Bajo-Grañeras R., Martín R., García-Font N., Bellochio L., Marsicano G., Casadó V., Sánchez-Prieto J., Galve-Roperh I., Fernández de Sevilla D., Rodríguez-Crespo I., Castillo PE., Guzmán M.

P1.4

DIFFERENTIAL EXPRESSION OF ELEMENTS OF THE ENDOCANNABINOID SYSTEM IN ASTROCYTES FROM THE STRIATUM OF PARKINSONIAN MICE.

Basurco L., Abellanas MA., Zamarbide M., Luquin E., Vilas A., San Martin-Uriz P., Hillard CJ., Romero J., Mengual E., Aymerich MS.

P1.5

ANALYSIS OF THE ASTROGLIAL CB₁ RECEPTOR IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE.

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

P1.6

ULTRASTRUCTURAL LOCALIZATION OF CB₁ AND CB₂ RECEPTORS IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S DISEASE.

Terradillos I., Bonilla-Del Río I., Achicallende S., Puente N., Soria-Gomez E., Egaña-Huguet J., Rico-Barrio I., Buceta I., L. Reguero L., Mendizabal-Zubiaga JL., Ramos-Uriarte A., Gerrikagoitia I., Romero J., GrandeMT., Hillard CJ., Elezgarai I., Grandes P.

P1.7

CBGV AS A POTENT AGONIST FOR CANNABINOID CB₁ AND CB₂ RECEPTORS.

Lillo A., Rivas R., Lillo J., Pérez C., Ferreiro-Vera C., Sánchez de Medina V., Xavier Nadal X., Navarro G., Franco R.

P1.8

BIASED SIGNALING CHARACTERIZATION OF THE CANNABIDIOL ANALOGS CANNABIDIOLIC ACID (CBDA) AND CANNABIDIVARIN (CBDV) IN CB₁ AND CB₂ RECEPTORS AND CB₁-CB₂ HETERORECEPTOR COMPLEXES.

Rivas-Santisteban R., Lillo A., Lillo J., Pérez-Olives C., Ferreiro-Vera C., Nadal X., Sánchez de Medina V., Navarro G., Franco R.

P1.9

BEHAVIORAL AND MOLECULAR EFFECTS OF CANNABIDIOLIC ACID IN MICE.

Alegre Zurano L., Martín Sánchez A., Valverde O.

P1.10

ANTI-OBESITY EFFICACY OF NOVEL HYDROXYTYROSOL LINOLEIC ACID: EFFECTS ON PPAR α , AND THE ENDOCANNABINOID SYSTEM IN OBESE ZUCKER RATS.

Tovar R., Vargas A., Gavito A., Navarro J., Medina D., Vadas E., Rodríguez de Fonseca F., Baixeras E., Suárez J., Decara J.

P1.11

DEPRESSION AND ANXIETY AS OBESITY-RELATED COMORBIDITIES: POSSIBLE PROTECTIVE EFFECTS OF ACYLETHANOLAMIDES.

de Ceglia M., Romano A., Friuli M., Micioni Di Bonaventura MV., Giusepponi ME., Gallelli CA., Koczwara JB., Gavito AL., Micioni Di Bonaventura E., Cassano T., Rodriguez de Fonseca F., Cifani C., Gaetani S.

P1.12

ANTIDEPRESSANT-LIKE EFFECT OF CANNABIDIOL IN AN ANIMAL MODEL INDUCED BY LIPOPOLYSACCHARIDE ADMINISTRATION.

Senserrich J., Florensa-Zanuy E., Díaz A., Castro E., Pilar-Cuéllar F.

POSTER SESSION 2

P2.1

CHARACTERIZATION OF THE CB₂-GHS-R1A HETEROMER IN AN OBESITY MODEL.

Lillo J., Rivas R., Reyes-Resina I., Lillo A., Navarro G., Franco R.

P2.2

LOSS OF CANNABINOID MODULATION ON CORTICAL INFORMATION TRANSMISSION THROUGH THE BASAL GANGLIA CIRCUITS IN HEMIPARKINSONIAN RATS IS NOT RELATED WITH CHANGES IN CB₁ RECEPTOR DENSITY.

Antonazzo M., Gomez-Urquijo S.M., Ugedo L., Morera-Herreras T.

P2.3

PROTEOMIC PROFILE OF OLFATORY NEUROEPITHELIAL CELLS FROM SCHIZOPHRENIC PATIENTS: THE IMPACT OF CANNABIS USE.

Barrera-Conde M., Fernandez-Aviles C., Ausin, K, Lachén-Montes M., Fernández-Irigoyen J., Santamaria E., Robledo P.

P2.4

PRENATAL AND LACTATION ALCOHOL EXPOSURE ALTERS Δ^9 -THC-INDUCED TOLERANCE AND ABSTINENCE RESPONSES IN A MICE MODEL.

García Baos A., Martín Sánchez A., Valverde O.

P2.5

BRAIN c-FOS EXPRESSION IN RESPONSE TO ACUTE COCAINE IN MALE AND FEMALE RATS WITH A HISTORY OF Δ^9 -TETRAHYDROCANNABINOL EXPOSURE DURING ADOLESCENCE.

Gómez-Rubio L., Orihuel J., Valverde C., Moreno M., Ambrosio E., Higuera-Matas A.

P2.6

CONTRIBUTION OF ALTERED ENDOCANNABINOID SYSTEM TO OVERACTIVE mTORC1 SIGNALLING IN FOCAL CORTICAL DYSPLASIA.

García-Rincón D., Díaz-Alonso J., Paraíso-Luna J., Ortega Z., Utrilla Carriazo CL., Aguarales J., de Salas-Quiroga A., Jou C., de Prada I., Martínez-Cerdeño V., Aronica E., Guzmán M., Pérez-Jiménez MA., Galve-Roperh I.

P2.7

LFA261A: SYNTHESIS, PHARMACOLOGICAL STUDIES AND MODELLING OF A GPR55 SULFONAMIDE DERIVATIVE.

Figuerola-Asencio L., Zhao P., Hurst DP., Pulido M., Gómez-Cañas M., Morales P., Unciti JD., Fernández-Ruiz J., Muñoz E., Reggio PH., Abood ME., Jagerovic N.

P2.8

SYNTHESIS AND EVALUATION OF NOVEL GPR55 ALLOSTERIC MODULATORS.

Herraiz A., Zarzo S., Morales P., Pulido M., Unciti JD., Muñoz E., Jagerovic N.

P2.9

NOVEL SYNTHETIC CANNABINOID-LIKE COMPOUNDS AS GPR18 LIGANDS.

Lago-Fernandez A., Zhao P., Sotudeh N., Hurst DP., Morales P., Reggio PH., Abood ME., Jagerovic N.

P2.10

Δ^9 -THC ACCELERATES OLIGODENDROCYTE REGENERATION AND FUNCTIONAL CNS REMYELINATION.

Huerga-Gómez A., Aguado T., Sánchez-De la Torre A., Resel E., Guzman M., Galve-Roperh I., Palazuelos J.

P2.11

Δ^9 -THC ENHANCES OLIGODENDROCYTE DEVELOPMENT AND CNS MYELINATION.

Aguado T., Huerga-Gómez A., Sánchez-De la Torre A., Bernal-Chico A., Resel E., Mato S., Guzman M., Galve-Roperh I., Palazuelos J.

P2.12

ANTENATAL CANNABIDIOL IS ABLE TO CROSS THE PLACENTA AND EXERT NEUROPROTECTIVE EFFECTS IN RAT MODELS OF VERY IMMATURE NEONATAL BRAIN DAMAGE.

Martínez M., del Pozo A., Silva L., Piciteli F., Vargas C, Maizo VD., Gutiérrez A., Martínez-Orgado J.

POSTER SESSION 3

P3.1

ALTERED SIGNALLING VIA CAMP AND PERK IN CB₁-5HT_{2A} RECEPTOR HETEROMERS IN OLFACTORY NEUROEPITHELIUM CELLS OF TREATED SCHIZOPHRENIA PATIENTS: ROLE OF CANNABIS USE.

Moreno E., Guinart D., Barrera-Conde M., Galindo L., Cuenca-Royo A., Fernandez C., Cordomi A., Pardo L., Perez V., Canela EI, Casadó V., De la Torre R., Robledo P.

P3.2

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

Paraíso-Luna J., Aguareles J., García-Rincón D., Ayo-Martín A., Simón-Sánchez S., de Salas-Quiroga A., Díaz-Alonso J., García-Taboada E., Martín R., Sánchez-Prieto J., Liste I., Cappello S., Guzmán M., Galve-Roperh I.

P3.3

IGF-1 BIOAVAILABILITY MODIFIES APPETITE AND THE EXPRESSION OF CANNABINOID SYSTEM IN THE HYPOTHALAMIC ASTROCYTES.

Rivera P., Vargas A., Christians JK., Rodríguez de Fonseca F., Argente J., Chowen JA., Suárez J.

P3.4

ALTERATIONS OF HIPPOCAMPAL CB₁ RECEPTOR LEVELS IN A NOVEL MODEL OF AWAKE CLOSED-HEAD INJURY MODEL OF REPEATED MILD TRAUMATIC BRAIN INJURY.

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

P3.5

EFFECTS OF INTERMITTENT VOLUNTARY ETHANOL CONSUMPTION ON THE ENDOCANNABINOID AND OTHER SIGNALING SYSTEMS RELATED TO NEUROINFLAMMATION AND EMOTIONAL BEHAVIOUR.

Sánchez-Marín L., Gavito AL., Decara J., Guidotti F., Pastor A., Castilla-Ortega E., Suárez J., de la Torre R., Pavón FJ., Rodríguez de Fonseca F., Serrano A.

P3.6

BEHAVIORAL ASSESSMENT OF CB₂-KNOCKOUT MICE AFTER KAINATE ADMINISTRATION.

Egaña-Huguet J., Gomez-Urquijo S., Terradillos I., Soria-Gomez E., Romero J., Grande MT., Hillard CJ., Puente N., Elezgarai I., Grandes P.

P3.7

STUDYING THE ROLE OF CB₁ RECEPTORS IN CHOLINERGIC CIRCUITS.

Vella M., Busquets-García A., Achicallende S., Bonilla del Río I., Egaña-Huguet J., Terradillos I., Puente N., Varilh M., Marsicano G., Grandes P., Soria-Gómez E.

P3.8

LACK OF FAAH ALTERS MICROGLIA PRO-INFLAMMATORY PHENOTYPE.

Ruiz de Martín Esteban S., Aparicio N., Posada M., Benito-Cuesta I., Martínez Relimpio AM., Cravatt BF., Mostany R., Grande MT., Tolón RM., Romero J.

P3.9

FAAH DELETION RECOVERS SYNAPTIC PLASTICITY BY CONSERVING NEURONAL MORPHOLOGY IN 5xFAD MICE.

Ruiz-Pérez G., Marqués S., Aparicio N., Tolón RM., Cravatt BF., Esteban JA., Romero J., Palenzuela R.

P3.10

CANNABIDIOL PREVENTS MOOD DISTURBANCES IN A NEWBORN RAT MODEL OF INTRAVENTRICULAR HEMORRHAGE.

Villa M., del Pozo A., Vargas C., Martínez M., Silva L., Gutiérrez-Rodríguez A., Martínez-Orgado J.

P3.11

THE ANTIPSYCHOTIC AND ANTIPSYCHOACTIVE EFFECTS OF CANNABIDIOL IN SUBJECTIVE EFFECTS OF Δ^9 -TETRAHIDROCANNABINOL AND ITS LINK TO THE THEORY OF MIND.

Sainz Cort A.

