

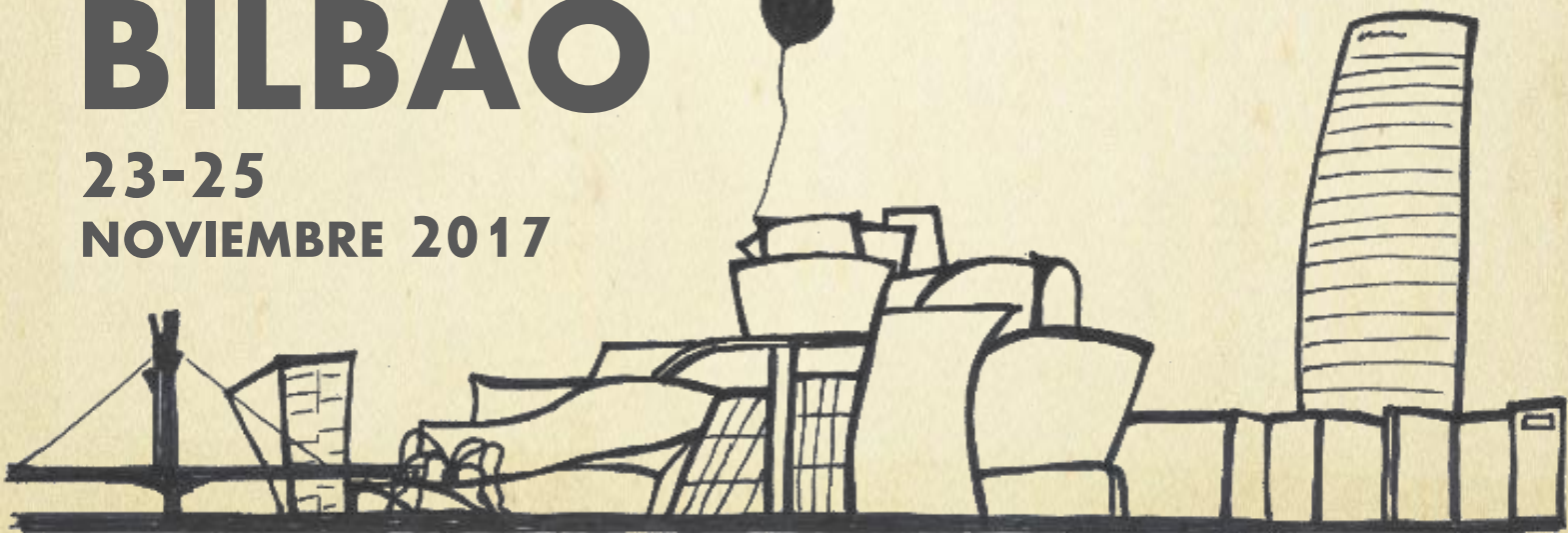
18^a REUNIÓN ANUAL



BILBAO

23-25

NOVIEMBRE 2017



18ª Reunión Anual de la
Sociedad Española de Investigación
sobre Cannabinoides



Bilbao
23-25 Noviembre, 2017

COMITÉ ORGANIZADOR

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Susana Mato (Dpto. Neurociencias UPV/EHU)
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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 DEL PAÍS VASCO/EUSKAL HERRIKO UNIBERSITATEA

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ESCUELA DE MÁSTER Y DOCTORADO UPV/EHU

CENTRO ACHUCARRO DE NEUROCIENCIAS

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PROGRAMA CIENTÍFICO

Jueves, 23 de Noviembre

- 11:00-12:30** **Registro, entrega de documentación**
- 12:30-13:00** **Inauguración**
-Julián Romero (Presidente de la SEIC)
-Inmaculada Gerrickagoitia (Vicerrectora de Personal Docente e Investigador, UPV/EHU)
-Joseba Pineda (Decano de la Facultad de Medicina y Enfermería, UPV/EHU)
-Pedro Grandes (Comité Organizador)
- 13:00-14:00** **Conferencia inaugural: *THC, cannabidiol and adolescent brain development.***
Ken Mackie (Department of Psychological and Brain Sciences and Program in Neuroscience. Indiana University, Indiana, EEUU).

Presentada por Pedro Grandes
- 14:00** **Comida**
- 16:00-17:15** **1ª Sesión de Comunicaciones Orales: Localización y señalización endocannabinoide.**
Moderada por: Izaskun Elezgarai
- 16:00-16:15 O1.1
SUBCELLULAR LOCALIZATION OF THE CANNABINOID TYPE-1 RECEPTOR IN ASTROGLIAL COMPARTMENTS OF MUTANT MICE HIPPOCAMPUS.
Puente N., Gutiérrez-Rodríguez A., Bonilla-del Río I., Gómez-Urquijo S.M., Elezgarai I., Reguero L., Mendizabal-Zubiaga J.L., Ramos A., Gerrickagoitia I., Marsicano G., Grandes P.
- 16:15-16:30 O1.2
THE ROLE OF MITOCHONDRIAL CB₁ RECEPTORS ON MOTOR CONTROL.
Bellocchio L., Desprez T., Corinti S., Goncalves J., Moreau L., Varilh M., Peggy Vincent P., Puente N., Grandes P., Marsicano G., Soria-Gomez E.

- 16:30-16:45 O1.3
ULTRAESTRUCTURAL EVALUATION OF CB₁ RECEPTORS IN OLIGODENDROCYTE POPULATIONS OF THE MOUSE BRAIN.
Manterola A., Bernal-Chico A., Chara J.C., Ruhwedel T., Möbius W., Lutz B., Trotter J., Matute C., Mato S.
- 16:45-17:00 O1.4
THE INTERACTION BETWEEN CB₁ AND S1P₁ RECEPTORS.
Martínez-Gardeazabal J., Kerstjens A., Moreno-Rodríguez M., Llorente-Ovejero A., Manuel I., Rodríguez-Puertas R.
- 17:00-17:15 O1.5
GRP78: A NEW INTERACTOR OF THE CB₁ RECEPTOR.
Costas-Insua C., Moreno E., Maroto I.B., Ruiz-Calvo A., Joaquín Botta J., Canela E., Casadó V., McCormick P.J., Galve-Roperh I., Rodríguez-Crespo I., Guzmán M.
- 17:15-17:45 Café**
- 17:45-18:45 1ª Sesión de Comunicaciones Orales (continuación)**
Moderada por: Leire Reguero
- 17:45-18:00 O1.6
HER2-CB₂ HETEROMERS AS NEW PROGNOSTIC TOOLS AND THERAPEUTIC TARGETS IN HER2 POSITIVE BREAST CANCER.
Blasco-Benito S., Moreno E., Andradas C., Seijo-Vila M., Tundidor I., Caro-Villalobos M., Homar P., Casadó V., Canals M., Guzmán M., Pérez-Gómez E., Sánchez C.
- 18:00-18:15 O1.7
ROLE OF FAAH IN BREAST DEVELOPMENT AND CANCER.
Tundidor I., Blasco-Benito S., Seijo-Vila M., Caro-Villalobos M., Guzmán M., Sánchez C., Pérez-Gómez E.
- 18:15-18:30 O1.8
ABHD6 AND CPT1C INTERACTION AS A NOVEL MECHANISM TO REGULATE THERMOGENESIS.
Miralpeix C., Rodríguez-Rodríguez R., Casas M., Serra D., Herrero L., Casas F., Casals N.
- 18:30-18:45 O1.9
EFFECT OF CANNABIDIOL ON THE FUNCTIONAL ACTIVITY OF 5-HT_{1A} AUTORECEPTORS IN THE DORSAL RAPHE NUCLEUS FROM RAT BRAIN SLICES.
Aostri E., Pineda J., Mendiguren A.

18:45-19:00

O1.10

BINDING AND SIGNALING STUDIES DISCLOSE A POTENTIAL ALLOSTERIC SITE FOR CANNABIDIOL IN CANNABINOID CB₂ RECEPTORS.

Reyes-Resina I., Martínez-Pinilla E., Varani K., Angelats E., Vincenzi F., Ferreiro-Vera C., Oyarzabal J., Canela E.I., Lanciego J.L., Nadal X., Navarro G., Borea P.A., Franco R.

19:30

Visita guiada (Cena libre)

Viernes, 24 de Noviembre

- 9:00-10:30** **2ª Sesión de comunicaciones orales: Sistema endocannabinoide: efectos psiquiátricos y modulación por drogas de abuso.**
Moderada por: Alejandro Higuera
- 9:00-9:15 O2.1
IMPLICATION OF THC DURING IN VITRO MATURATION OF OOCYTES IN MOUSE.
Totorikaguena L., Olabarrieta E., López-Cardona A.P., Gutiérrez-Adán A., Agirregoitia N., Agirregoitia E.
- 9:15-9:30 O2.2
DISSECTING THE NEURODEVELOPMENTAL CONSEQUENCES OF PRENATAL THC EXPOSURE: WHEN SEX MATTERS.
García Rincón D., de Salas Quiroga A., Díaz Alonso J., Paraíso Luna J., Villarreal A., Aguarales J., Pujadas M., Callado L.F., Guzmán M., Galve Roperh I.
- 9:30-9:45 O2.3
ABSTINENCE BEHAVIOURAL SIGNS IN MATERNAL SEPARATED MICE CHRONICALLY TREATED WITH CANNABINOID AGONIST WIN 55, 212.
Martín-Sánchez A., Valverde O.
- 9:45-10:00 O2.4
CONCOMITANT THC AND STRESS ADOLESCENT EXPOSURE IMPAIRS FEAR EXTINCTION IN ADULTHOOD.
Ten-Blanco M., Saravia R., Julià-Hernández M., Gagliano H., Andero R., Armario A., Maldonado R., Berrendero F.
- 10:00-10:15 O2.5
EFFECTS OF INTERMITTENT ALCOHOL EXPOSURE ON EMOTION AND COGNITION: A POTENTIAL ROLE FOR THE ENDOGENOUS CANNABINOID SYSTEM AND NEUROINFLAMMATION.
Sánchez-Marín L., Pavón F.J., Decara J., Suárez J., Gavito A., Castilla-Ortega E., Rodríguez de Fonseca F., Serrano A.
- 10:15-10:30 O2.6
PLASMA CONCENTRATIONS OF ACYLETHANOLAMIDES ARE INCREASED IN YOUNG ALCOHOL BINGE DRINKERS AND CORRELATE WITH INFLAMMATORY CHANGES.
Antón M., Rodríguez-Gonzalez A., Rodríguez-Rojo I.C., Pastor A., Correas A., Serrano A., Ballesta A., Alén F., Gómez de Heras R., de la Torre R., Rodríguez de Fonseca F., Orio L.
- 10:30-12:00** **Café y Primera Sesión de Pósters**

- 12:00-13:00** **2ª Sesión de comunicaciones orales (Continuación)**
Moderada por: Fernando Berrendero
- 12:00-12:15 O2.7
TRANSCRIPTOMIC AND MORPHOLOGICAL CHANGES EVIDENT IN ADULT RATS AFTER ADOLESCENT EXPOSURE TO Δ^9 -TETRAHIDROCANNABINOL.
Orihuel J., Capellán R., Ucha M., Roura-Martínez D., Ambrosio E., Higuera-Matas A.
- 12:15-12:30 O2.8
CANNABIDIOL ALLEVIATES THE COGNITIVE DEFICITS ASSOCIATED WITH NICOTINE WITHDRAWAL THROUGH MODULATION OF INFLAMMATORY PROCESSES.
Saravia R., Ten-Blanco M., Maldonado R., Berrendero F.
- 12:30-12:45 O2.9
CHRONIC Δ^9 -THC AND PSYCHOTIC-LIKE SYMPTOMS IN MICE: FOCUSING ON BRAIN CORTICAL 5-HT_{2A} RECEPTORS FUNCTIONALITY AND AKT/mTOR PATHWAY.
Ibarra-Lecue I., Mollinedo-Gajate I., Meana J.J., Callado L.F., Díez-Alarcía R., Urigüen L.
- 12:45-13:00 O2.10
CANNABIDIOL MODULATES THE ACQUISITION OF COCAINE SELF-ADMINISTRATION BEHAVIOR AND THE CB₁ RECEPTOR EXPRESSION IN MICE.
Luján M.A., Alegre L., Valverde O.
- 13:00-14:00** **Hot Topic: *Cannabinoides sintéticos.***
Koldo Callado (Departamento de Farmacología. Universidad del País Vasco (UPV/EHU)).

Presentado por Julián Romero
- 14:00** **Comida**
- 16:00-17:15** **3ª Sesión de comunicaciones orales: Sistema endocannabinoide y compuestos cannabinoides: efectos neuroprotectores.**
Moderada por: Miriam Mecha
- 16:00-16:15 O3.1
CANNABIDIOL PREVENTS NEONATAL BRAIN HYPOXIA-ISCHEMIA-INDUCED LONG-TERM INCREASE OF SEIZURE SENSITIVITY IN RATS.
Pagés G., Villa M., Vargas C., Ceprián M., Del Pozo A., Olmos-Alonso A., Gutiérrez A., Hind W., Martínez-Orgado J.

16:15-16:30	O3.2 CHARACTERIZATION OF A DRAVET SYNDROME KNOCK-IN MOUSE MODEL USEFUL FOR INVESTIGATING CANNABINOID-BASED TREATMENTS. <u>Alonso C.</u> , Satta V., Fernández-Ruiz J., Sagredo O.
16:30-16:45	O3.3 SUSTAINED NEUROPROTECTIVE EFFECTS OF COMBINING CANNABIDIOL AND HYPOTHERMIA AFTER NEONATAL HYPOXIA-ISCHEMIA IN RATS. <u>Gutiérrez-Rodríguez A.</u> , Villa M., Pagés G., Vargas C., Ceprián M., Olmos-Alonso A., Hind W., Martínez-Orgado J.
16:45-17:00	O3.4 TIME PROFILE OF THE MECHANISMS OF NEUROPROTECTION BY COMBINING CANNABIDIOL AND HYPOTHERMIA IN HYPOXIC-ISCHEMIC NEWBORN PIGS. <u>Barata L.</u> , Arruza L., Vargas C., Rodríguez M.J., Vierge E., Aleo E., Sobrino E., Villa M., Pages G., Ceprián M., Lafuente H., Gutiérrez A., Pazos M.R., Alvarez F.J., Hind W., Martínez-Orgado J.
17:00-17:15	O3.5 ROLE OF 2-AG IN THE CORTICAL DEMYELINATION/REMYELINATION PROCESS IN A VIRAL MODEL OF MULTIPLE SCLEROSIS. <u>Mestre L.</u> , Mecha M., Feliú A., Carrillo-Salinas F.J., Yanguas-Casás N., Guaza C.
17:15-18:30	Café y Segunda Sesión de Pósters
18:30-20:00	Asamblea de socios de la SEIC
21:00	Cena Congreso

9:00-10:30 4ª Sesión de comunicaciones orales (Continuación)

Moderada por: Ester Aso

9:00-9:15

O3.6

NEUROPROTECTIVE EFFECTS WITH Δ^9 -TETRAHYDROCANNABINOL IN SOD1^{G93A} TRANSGENIC MICE, AN EXPERIMENTAL MODEL OF ALS: POSSIBLE INVOLVEMENT OF ASTROGLIAL CB₂ RECEPTORS.

Santos-García I., Espejo-Porras F., Rodríguez-Cueto C., García-Toscano L., Fernández-Ruiz J., de Lago E.

9:15-9:30

O3.7

NEUROPROTECTION WITH CANNABIDIOLIC ACID (CBDA) AND CANNABIDIVARIN (CBDV) IN TDP-43 TRANSGENIC MICE, AN EXPERIMENTAL MODEL OF AMYOTROPHIC LATERAL SCLEROSIS.

García-Toscano L., Rodríguez-Cueto C., Hind W., de Lago E., Fernández-Ruiz J.

9:30-9:45

O3.8

NEUROPROTECTIVE EFFECTS OF VCE-003.2 AGAINST INFLAMMATION-DRIVEN NEURODEGENERATION IN EXPERIMENTAL PARKINSONISM: INVOLVEMENT OF A GLITAZONE-INDEPENDENT SITE AT THE PPAR γ .

Burgaz S., Gómez-Cañas M., Palomares B., Pavicic C., Bellido M.L., Muñoz E., García C., Fernández-Ruiz J.

9:45-10:00

O3.9

EXPRESSION OF ENDOCANNABINOID SYSTEM ELEMENTS IN THE BASAL GANGLIA OF PARKINSONIAN AND DYSKINETIC NON-HUMAN PRIMATES.

Abellanas M.A., Rojo-Bustamante E., Clavero P., Luquin M.R., Bezard E., Aymerich M.S.

10:00-10:15

O3.10

HYPOXIA MIMETIC ACTIVITY OF VCE-004.8, A CANNABIDIOL QUINOL DERIVATIVE. IMPLICATIONS FOR MULTIPLE SCLEROSIS THERAPY.

Navarrete C., Carrillo-Salinas F., Palomares B., Mecha M., Jiménez C., Mestre L., Feliú A., Calzado M.A., Fiebich B.L., Bellido M.L., Guaza C., Muñoz E.

10:15-10:30

O3.11

CANNABIDIOL IS MORE EFFECTIVE FOR STROKE-INDUCED BRAIN DAMAGE IN NEWBORN THAN IN ADULT RATS.

Villa M., Pagés G., Ceprián M., Vargas C., Barata L., Olmos-Alonso A., Hind W., Martínez-Orgado J.

10:30-11:00

Café

11:00-11:30

Premio SEIC a la mejor publicación predoctoral

2-ARACHIDONOYLGLYCEROL REDUCES PROTEOGLYCANS AND ENHANCES REMYELINATION IN A PROGRESSIVE MODEL OF DEMYELINATION.

Feliú A., Bonilla del Río I., Carrillo-Salinas FJ., Hernández-Torres G., Mestre L., Puente N., Ortega-Gutiérrez S., López-Rodríguez ML., Grandes P., Mecha M., Guaza C.

Presentado por: Susana Mato

11:30-12:00

Premio SEIC a la mejor publicación postdoctoral

LOSS OF CANNABINOID CB₁ RECEPTORS INDUCES CORTICAL MIGRATION MALFORMATIONS AND INCREASES SEIZURE SUSCEPTIBILITY.

Díaz-Alonso J., de Salas-Quiroga A., Paraíso-Luna J., García-Rincón D., Garcez PP., Parsons M., Andradas C., Sánchez C., Guillemot F., Guzmán M., Galve-Roperh I.

Presentado por: Andrés Ozaita

12:00-12:30

Entrega de premios y Clausura

PRIMERA SESIÓN DE PÓSTERS

P1

CROSSTALK BETWEEN ENDOCANNABINOID AND CHOLINERGIC SYSTEMS IN A RAT MODEL OF BASAL FOREBRAIN CHOLINERGIC LESION.

Llorente-Ovejero A., Moreno M., Martínez-Gardeazabal J., Manuel I., Rodríguez-Puertas R.

P2

SYNTHETIC APPROACHES OF CANNABIDIOL DERIVATIVES.

Lago-Fernández A., Figuerola-Asencio L., Redondo V., Fernández-Ruiz J., Jagerovic N.

P3

ANTIINFLAMMATORY AND NEUROPROTECTIVE EFFECTS OF CANNABINOIDS IN NEURODEGENERATIVE DISEASES.

Navarro G., Reyes I., Angelats E., Etayo I., Borroto-Escuela D., Díaz-Ruiz C., Labandieira J.L., Saura C., Fuxe K., Canela E.I., Franco R.

P4

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.

P5

IMPACT OF SOCIAL ISOLATION STRESS DURING ADOLESCENCE ON ACUTE AND REPEATED Δ^9 THC-INDUCED EFFECTS AT ADULTHOOD.

Muguruza C., Marsicano G., Callado L.F., Chaouloff F.

P6

Δ^9 -THC AND ALCOHOL INTERACTION DURING ADOLESCENCE ON NEUROTROPHIN SIGNALING AND COGNITIVE IMPAIRMENT.

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

P7

INTERACTION AND POSSIBLE MODULATION OF CANNABINOID CB₁ RECEPTOR EXERTED BY CALCIUM SENSOR PROTEINS.

Angelats E., Requesens M., Etayo I.J., Navarro G., Franco R.

P8

ENRICHED ENVIRONMENT PROMOTES ADULT EXCITATORY LTD AFTER ADOLESCENT CHRONIC ALCOHOL CONSUMPTION AND LTP IN CONTROL C57BL6 MICE.

Rico-Barrio I., Peñasco S., Puente N., Buceta I., Ramos A., Reguero L., Mendizabal-Zubiaga J., Gerrikagoitia I., Rodríguez de Fonseca F., Elezgarai I., Grandes P.

P9

ADOLESCENT ETHANOL INTAKE ALTERS THE CANNABINOID CB₁ RECEPTOR LOCALIZATION IN ASTROCYTES OF THE ADULT MOUSE HIPPOCAMPUS.

Bonilla I., Puente N., Peñasco S., Rico I., Gutiérrez-Rodríguez A., Elezgarai I., Ramos A., Reguero L., Gerrikagoitia I., Nahirney P., Christie B., Grandes P.

P10

RELATIONSHIP BETWEEN MGLU3 AND CB₁ RECEPTORS IN THE HILUS OF THE DENTATE GYRUS OF THE MOUSE.

Medrano A., Gómez S.M., Ramos-Uriarte A., Egaña J., Royo N., Bonilla I., Rico-Barrio I., Elezgarai I., Puente N., Reguero L., Grandes P.

P11

OLEOYLETHANOLAMIDE POTENTIATES ETHANOL-INDUCED HYPOLOCOMOTOR ACTIVITY ASSOCIATED WITH INCREASED GLIOSIS, CELL PROLIFERATION AND SURVIVAL IN RAT STRIATUM.

Rivera P., Blanco E., Silva D., Vargas A., Serrano A., Pavón F.J., Bindila L., Lutz B., Rodríguez de Fonseca F., Suárez J.

P12

THE ENDOCANNABINOID SYSTEM: A PUTATIVE BIOLOGICAL MECHANISM INVOLVED IN THE SEX-DIFFERENCES AFTER INTRAUTERINE EXPOSURE TO UNDERNUTRITION.

Ramírez-López M.T., Suarez J., Vázquez M., Lomazzo E., Hofmann C., Blanco R.N., Alén F., Antón M., Decara J., Arco R., Orio L., Rivera P., Lutz B., Gómez de Heras R., Bindila L., Rodríguez de Fonseca F.

P13

DOPAMINERGIC DENERVATION MODIFIES THE CANNABINOID MODULATION OF THE CORTICAL INFORMATION TRANSMISSION THROUGH THE SENSORIMOTOR CIRCUITS OF THE BASAL GANGLIA IN RATS.

Antonazzo M., Ugedo L., Morera-Herrerías T.

P14

RESTRAINT STRESS IMPAIRS ENDOCANNABINOID-DEPENDENT PLASTICITY AT GLUTAMATERGIC SYNAPSES IN YOUNG ADULT MICE DENTATE GYRUS.

Royo N., Puente N., Peñasco S., Reguero L., Bonilla I., Mendizabal-Zubiaga J.L., Elezgarai I., Aretxabala X., García Del Caño G., Barrondo S., Sallés J., Grandes P.

P15

ANALYSIS OF HYPOTHALAMIC ENDOCANNABINOIDS FLUCTUATIONS IN RESPONSE TO HIGH FAT DIET IN MALE AND FEMALE MICE.

Miralpeix C., Rodríguez-Rodríguez R., Casas F., Fabrias G., Casals N.

P16

PERINATAL EXPOSURE TO HIGHLY CALORIC PALATABLE DIET INDUCES LONG-TERM SEX-SPECIFIC CHANGES IN APPETITE-REGULATING NEUROPEPTIDES AND HYPOTHALAMIC ENDOCANNABINOID SYSTEM IN ADULT RAT OFFSPRING.

Rivera P., Ramírez-López M.T., Vargas A., Vázquez M., Arco R., Argente J., Gómez de Heras R., Rodríguez de Fonseca F., Chowen J.A., Suárez J.

P17

RESCUE TREATMENT WITH CANNABIDIOL IN BRAIN-INJURED JUVENILE RATS BY NEONATAL EXPOSURE TO BICUCULLINE-INDUCED SEIZURES.

Alvarez F.J., Lafuente H., Hind W., Hilario E., Martínez-Orgado J., Alvarez A.A.

SEGUNDA SESIÓN DE PÓSTERS

P18

2-AG INCREASES MICROGLIA PHAGOCYTTIC CAPACITY IMPROVING REMYELINATION.
Yanguas-Casás N., Mecha M., Feliú A., Carrillo-Salinas F.J., Mestre L., Guaza C.

P19

EFFECTS OF CB₂ RECEPTOR MODULATION IN ALZHEIMER'S DISEASE.
de la Barreda-Manso M.A., López A., Ruiz G., Aparicio N., Grande M.T., Pazos M.R., Amores M., Vázquez C., Tolón R.M., Hillard C.J., Romero J.

P20

VCE-004.8 INHIBITS ADIPOGENESIS AND PREVENTS DIET-INDUCED OBESITY.
Palomares B., Ruiz-Pino F., Navarrete C., Velasco I., Sanchez-Garrido M.A., Cantarero I., del Río C., Bellido M.L., Calzado M.A., Tena-Sempere M., Muñoz E.

P21

WIN55,212-2 ADMINISTRATION REDUCES EARLY INFLAMMATORY RESPONSE TRIGGERED BY NEONATAL HYPOXIA-ISCHEMIA.
Álvarez A., Hilario E., Álvarez-Díaz F.J., Alonso-Alconada D.

P22

OLIGODENDROCYTE CELLS FROM RAT SPINAL CORD EXPRESS CANNABINOID RECEPTORS AND ENZYMES INVOLVED IN ENDOCANNABINOID SYNTHESIS AND DEGRADATION.
Molina-Holgado E., Esteban P.F., Moreno-Luna R., Paniagua-Torija B., Arévalo-Martín A., Le U., Sánchez-Caro C., Garcia-Ovejero D.

P23

CANNABIDIOL AS FAST ANTIDEPRESSANT PHARMACOLOGICAL STRATEGY.
Florensa-Zanuy E., Senovilla F., Hörner S., Ayala S., Pilar-Cuéllar F., Amigó J., Garro-Martínez E., Castro E., Pazos A., Díaz A.

P24

SYNAPTIC PLASTICITY AND EFFECT OF MINOCYCLINE TREATMENT IN 5xFAD/FAAH^{-/-} MICE.
Ruiz G., Aparicio N., López A., de la Barreda-Manso M.A., Palenzuela R., Grande M.T., Vázquez C., Pazos M.R., Amores M., Tolón R.M., Romero J.

P25

LONG-TERM NEUROPROTECTION OF CANNABIDIOL AND HYPOTHERMIA ON BRAIN DAMAGE AFTER HYPOXIA-ISCHEMIA IN DEVELOPING RATS.
Lafuente H., Alvarez F.J., Alvarez A.A., Hind W., Hilario E., Martínez-Orgado J.

P26

INHIBITION OF THE MDK/ALK AXIS INDUCES AN AUTOPHAGY-DEPENDENT REPROGRAMMING OF GLIOMA INITIATING CELLS THAT SENSITIZES THIS CELL POPULATION TO THC-INDUCED APOTOTIC CELL DEATH.

López-Valero I., Dávila D., González-Martínez J., Salvador N., Lorente M., Hernández-Tiedra S., García Taboada E., Sáiz C., Torres S., Guzmán M., Hernández Laín A., Matheu A., Sánchez-Gómez P., Sepúlveda J., Velasco G.

P27

ULTRASTRUCTURAL CHANGES IN THE EXPRESSION OF CANNABINOID CB₁ RECEPTORS IN THE DENTATE GYRUS OF TRPV1-KO MICE: INVOLVEMENT IN A MEDIAL TEMPORAL LOBE EPILEPSY MODEL.

Egaña-Huguet J., Mendizabal-Zubiaga J.L., Sierra A., Puente N., Elezgarai I., Grandes P.

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ROLE OF CB₂ RECEPTOR IN THE NEUROPROTECTIVE EFFECT OF CBD IN A NEONATAL RAT MODEL OF HYPOXIA ISCHEMIA.

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THE UP-REGULATION OF CB₁ SIGNALLING BY SR141716A TREATMENT MODULATES LEARNING AND MEMORY MEDIATED BY BASAL FOREBRAIN CHOLINERGIC CELLS.

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ANTITUMOR EFFECT OF PURE CANNABINOIDS VERSUS CANNABIS SATIVA WHOLE-PLANT EXTRACTS IN PRECLINICAL MODELS OF BREAST CANCER.

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THC-INDUCED STIMULATION OF SPHINGOLIPID BIOSYNTHESES IN GLIOMA CELLS RELIES ON THE POLYUBIQUITYLATION OF ORMDL3 AND ITS SUBSEQUENT DEGRADATION IN THE PROTEASOME.

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ALTERATION OF THE INTRINSIC MECHANISMS OF EXCITATORY TRANSMISSION AND PLASTICITY MEDIATED BY ACTIVATION OF CB₁ RECEPTORS IN THE DENTATE GYRUS AFTER ETHANOL CONSUMPTION DURING ADOLESCENCE.

Peñasco S., Rico-Barrio I., Puente N., Ramos A., Reguero L., Mendizabal J., Suárez J., Rodríguez de Fonseca F., Barrondo S., García del Caño G., Sallés J., Gerrikagoitia I., Elezgarai I., Grandes P.

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CANNABINOID CB₂ RECEPTOR EXPRESSION IN LIVER DAMAGE ASSOCIATED TO OBSTRUCTIVE JAUNDICE IN MICE.

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CANNABIS USERS SHOW ENHANCED EXPRESSION OF CB₁-5HT_{2A} RECEPTOR HETEROMERS IN OLFACTORY NEUROEPITHELIUM CELLS.

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