

12ª Reunión Anual Sociedad Española de Investigación sobre Cannabinoides

Pamplona, 24 a 26 de noviembre de 2011

Programa científico

Jueves, 24 de noviembre

- 12:00-14:00** **Entrega de documentación** (Campus de Ciencias de la Universidad de Navarra, Salón de Actos del Edificio de Bibliotecas)
- 14:00-15:30** **Comida**
- 15:30-16:00** **Inauguración**
- Fernando de la Puente, Director de I+D de la Universidad de Navarra
 - Fermín Castiella, Exdirector del Programa Foral de Drogodependencias, Gobierno de Navarra
 - Rafael Franco, Presidente del Comité Organizador
 - Javier Fernández-Ruiz, Presidente de la SEIC
- 16:00-17:00** **Conferencia Inaugural** (presentada por Manuel Guzmán)
Beat Lutz, Universidad de Maguncia, Alemania:
"Cannabinoid CB₁ receptor functions in periphery-brain circuits"
- 17:00-18:30** **Mesa Redonda 1:** "Avances en el desarrollo de medicamentos cannabinoides" (moderadores: Julián Romero y Rafael Franco)
- Vanesa Fernández, Echo Pharmaceuticals
 - María Luz Bellido, VivaCell Biotechnology
 - Guillermo Velasco, Universidad Complutense de Madrid
 - Javier Fernández-Ruiz, Universidad Complutense de Madrid
- 18:30-19:00** **Café**
- 19:00-21:00** **1ª Sesión de comunicaciones orales**
"Sistema endocannabinoide: nuevos compuestos, localizaciones y receptores"
(moderadores: María Gómez-Ruiz y María Javier Ramírez)
- 19:00 Presentación (María Gómez-Ruiz)
- 19:15 O-1.1

CHARACTERIZATION OF SELECTIVE CB₂ RECEPTOR LIGANDS BASED ON DIARYL-PYRAZOLE AND TRIAZOLE STRUCTURES. M. Gómez-Cañas, P. Morales, L. Hernández-Folgado, M. Gómez-Ruiz, N. Jagerovic, J. Fernández-Ruiz, P. Goya

- 19:30 O-1.2
CHROMENOPYRAZOLES: NON-PSYCHOACTIVE AND SELECTIVE CB₁ CANNABINOID AGONISTS WITH PERIPHERAL ANTINOCICEPTIVE PROPERTIES. P. Morales, L. Hernández-Folgado, R. Girón, E. Sánchez, J. Cumella, D.P. Hurst, M. Gómez-Cañas, M. Gómez-Ruiz, P. Goya, P.H. Reggio, M.I. Martin, J. Fernández-Ruiz, N. Jagerovic
- 19:45 O-1.3
SYNTHESIS AND EVALUATION OF NOVEL CANNABINOID QUINONES AS PPAR-GAMMA LIGANDS. M.L. Bellido, F. Conde, C. Navarrete, A. González, P.M. Íñigo, L. Mestre, F. Carrillo, G. Appendino, C. Guaza, E. Muñoz
- 20:00 O-1.4
ULTRASTRUCTURAL DISTRIBUTION OF THE CB₁ CANNABINOID RECEPTOR IN GABAERGIC AND CORTICAL AND SUBCORTICAL GLUTAMATERGIC TERMINALS IN THE VENTROMEDIAL NUCLEUS OF THE HYPOTHALAMUS. L. Reguero, N. Puente, I. Elezgarai, J.L. Mendizabal-Zubiaga, M.J. Canduela, I. Buceta, A. Ramos, J. Suárez, F. Rodríguez De Fonseca, G. Marsicano, P. Grandes
- 20:15 O-1.5
ANATOMICAL CHANGES IN PARALLEL FIBRE TERMINALS LACKING CB₁ IN ADULT RODENT CEREBELLAR CORTEX. I. Buceta, N. Puente, L. Reguero, J.L. Mendizabal-Zubiaga, M.J. Canduela, S. Gómez-Urquijo, G. Marsicano, P. Grandes, I. Elezgarai
- 20:15 O-1.6
IMMUNOCYTOCHEMICAL LOCALIZATION OF CB₁ RECEPTORS IN HIPPOCAMPAL MITOCHONDRIA. N. Puente, G. Marsicano, P. Grandes
- 20:45 O-1.7
A ROLE FOR GPR55 IN MULTISTAGE MOUSE SKIN CARCINOGENESIS. E. Pérez-Gómez, C. Andradas, M. Quintanilla, Juana M. Flores, J. Paramio, M. Guzmán, C. Sánchez

Cena libre

Viernes, 25 de noviembre

- 9:00-10:00 **2ª Sesión de comunicaciones orales**
"Sistema endocannabinoide: efectos amnésicos y psiquiátricos"
(moderadores: Andrés Ozaita y Marisol Aymerich)
- 9:00 Presentación (Andrés Ozaita)

- 9:15 O-2.1
INVOLVEMENT OF PROTEIN KINASE C-GAMMA SIGNALING ON THE AMNESIC-LIKE EFFECTS OF DELTA-9-TETRAHYDROCANNABINOL. M. Gomis-González, A. Busquets-Garcia, E. Puighermanal, A. Blázquez-Prunera, R. Maldonado, A. Ozaita
- 9:30 O-2.2
QUANTIFICATION OF ENDOCANNABINOIDS IN POSTMORTEM HUMAN BRAIN OF SCHIZOPHRENIC SUBJECTS. C. Muguruza, M. Lehtonen, N. Aaltonen, J. Arrieta, C. Cubero, J.J. Meana, L.F. Callado
- 9:45 O-2.3
RESIDUAL ATTENTIONAL DEFICIT CAUSED BY FREQUENT CONSUMPTION OF CANNABIS. L. Hernández-Bellido, J.L. Rubio-Gómez, O. López-Guarnido, E. Gómez-Milán, M. Ruiz-Veguilla
- 10:00-12:30 Café y sesión de pósters**
- 12:30-14:00 Mesa Redonda 2:** "Aspectos psiquiátricos del consumo de cannabis" (moderadores: Koldo Callado e Ismael Galve-Roperh)
 - Ignacio Mata Pastor, Fundación Argibide de Pamplona
 - Ana González Pinto, Hospital Santiago Apóstol de Vitoria
 - Luis Alfonso Núñez Domínguez, Centro Médico de Pamplona
- 14:00-15:30 Comida**
- 15:30-17:30 3ª Sesión de comunicaciones orales**
 "Sistema endocannabinoide: efectos neuroprotectores y neuroproliferativos"
 (moderadores: Ester Aso y José Luís Lanciego)
- 15:30 Presentación (Ester Aso)
- 15:45 O-3.1
THE CB₁ ANTAGONIST/CB₂ AGONIST URB447 CONFERS NEUROPROTECTION AFTER NEONATAL HYPOXIA-ISCHEMIA. D. Alonso-Alconada, S. Carloni, A. Alvarez, S. Girelli, A. Duranti, A. Tontini, O. Arteaga, I. Lara, D. Piomelli, W. Balduini, E. Hilario
- 16:00 O-3.2
CANNABIDIOL INDUCES SUSTAINED MODULATION OF EXCITOTOXICITY AND OXIDATIVE STRESS IN IMMATURE BRAIN AFTER HYPOXIA-ISCHEMIA. N. Mohamed, M.R. Pazos, A. Gómez, R. Layunta, M. Ceprián, H. Lafuente, M. Santos, F.J. Alvarez, J. Fernández-Ruiz, J. Martínez-Orgado
- 16:15 O-3.3
INVOLVEMENT OF THE ENDOCANNABINOID SYSTEM IN THE NEUROPROTECTIVE EFFECTS OF MINOCYCLINE AFTER TRAUMATIC BRAIN INJURY IN MICE. A.B. López-Rodríguez, E. Siopi, D.M. Kerr,

G.K. Ford, C. Marchand-Leroux, D.P. Finn, M. Jafarian-Tehrani, M.P. Viveros

16:30 O-3.4
PRECLINICAL EVALUATION OF SATIVEX® AS A DISEASE-MODIFYING AGENT IN HUNTINGTON'S DISEASE. S. Valdeolivas, O. Sagredo, V. Satta, J.A. Ramos, R.G. Pertwee, J. Fernández-Ruiz

16:45 O-3.5
CB₁ CANNABINOID RECEPTORS LOCATED ON GLUTAMATERGIC TERMINALS CONFER NEUROPROTECTION IN HUNTINGTON'S DISEASE. A. Chiarlone, C. Blázquez, E. Resel, L. Bellocchio, J.J. Ferrero, E. Soria-Gómez, O. Sagredo, C. Benito, J.M. Flores, M. Sendtner, J. Romero, J. Sánchez-Prieto, B. Lutz, J. Fernández-Ruiz, G. Marsicano, I Galve-Roperh, M. Guzmán

17:00 O-3.6
ENDOCANNABINOID SYSTEM BLOCKADE AS A NOVEL APPROACH TO TREAT FRAGIL X SYNDROME. A. Busquets-Garcia, M. Gomis-González, C. Agustín-Pavón, A. Pastor, R. De La Torre, M. Dierssen, R. Maldonado, A. Ozaita

17:15 O-3.7
CORRELATION BETWEEN CB₂ RECEPTOR EXPRESSION AND A-BETA LEVELS AND SENILE PLAQUE SCORES IN ALZHEIMER'S DISEASE FRONTAL CORTEX. M. Solas, M. J. Ramírez, R. Franco

17:30 O-3.8
ROLE OF CB₁ CANNABINOID RECEPTORS IN THE CONTROL OF CEREBELLAR FUNCTION THROUGH THE MICROGLIAL ACTIVATION. L. Cutando, E. Puighermanal, M. Gomis-González, J.M. Delgado-García, A. Gruart, R. Maldonado, A. Ozaita

17:45-19:00 **Café y sesión de pósters**

19:00-20:30 **Asamblea de la SEIC**

21:30 **Cena del congreso**

Sábado, 26 de noviembre

9:00 **Presentación del Premio a la Mejor Publicación 2011**
(presentado por Carmen Guaza)

10:00-11:15 **3ª Sesión de comunicaciones orales (continuación)**

10:00 O-3.9
CANNABIDIOL PROTECTION OF OLIGODENDROCYTE PROGENITOR CELLS INVOLVES THE ATTENUATION OF ENDOPLASMIC RETICULUM

STRESS. M. Mecha, A. Torrao, L. Mestre, F.J. Carrillo, P. Iñigo, R. Mechoulam, C. Guaza

10:15 O-3.10
HIGH EXPRESSION OF CANNABINOID RECEPTOR CB₁ DEFINES A NEW SUBTYPE OF CELLS IN THE SPINAL CORD EPENDYMA. D. Garcia-Ovejero, A. Arévalo-Martin, B. Paniagua-Torija, Y. Sierra-Palomares, E. Molina-Holgado

10:30 O-3.11
THE ENDOCANNABINOID SYSTEM MODULATES PROLIFERATION AND MIGRATION OF OLIGODENDROCYTE PROGENITOR CELLS. O. Gómez, M.A. Sanchez-Rodriguez, E. Molina-Holgado

10:45 O-3.12
CANNABIDIOL ADMINISTRATION AFTER BRAIN HYPOXIA-ISCHEMIA TO NEWBORN RATS HAS A NEUROPROLIFERATIVE EFFECT. M.R. Pazos, R. Layunta, N. Mohammed, A. Gómez, M. Ceprián, M. Santos, J. Martínez-Orgado

11:00 O-3.13
CB₂ CANNABINOID RECEPTORS PROMOTE NEURAL PROGENITOR CELL PROLIFERATION VIA mTORC1 SIGNALING. J. Palazuelos, Z. Ortega, J. Díaz-Alonso, M. Guzmán, I. Galve-Roperh

11:15-12:00 Café

12:00-13:00 Entrega de Premios a las Mejores Comunicaciones
Clausura

SESIÓN DE PÓSTERS

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CORRELATION OF TEMPORAL EXPRESSION OF ENDOCANNABINOID RECEPTORS AND DEGRADATION ENZYMES DURING THE MEIOTIC RESUMPTION IN HUMAN OOCYTES. E. Agirregoitia, L. Peralta, R. Mendoza, A. Expósito, A. Arregi, R. Matorras, N. Agirregoitia

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ANALYZING THE ROLE OF CB₂ RECEPTORS DURING PRIMARY DEMYELINATION AND REMYELINATION. A. Bernal-Chico, F. Pérez-Cerdá, C. Matute, S. Mato

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INTRA-HIPPOCAMPAL INJECTION OF CANNABIDIOL INDUCES ANTIDEPRESSANT-LIKE EFFECT IN THE RAT FORCED SWIMMING TEST. C. Biojone, M. Silva, P.C. Casarotto, F.A. Moreira, F.S. Guimarães, S.R. Joca

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ULTRASTRUCTURAL LOCALIZATION OF THE CB₁ CANNABINOID RECEPTOR IN HIPPOCAMPAL ASTROGLIA. M.J. Canduela, J.L. Mendizabal-Zubiaga, L. Reguero, N. Puente, I. Buceta, I. Elezgarai, J. Suárez, F. Rodríguez de Fonseca, G. Marsicano, P. Grandes

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ADMINISTRATION OF THE CB₂ AGONIST HU308 AFTER BRAIN HYPOXIA-ISCHEMIA IS NEUROPROTECTIVE IN NEWBORN RATS. M. Ceprián, M.R. Pazos, A. Gómez, N. Mohammed, R. Layunta, M. Santos, R. Mechoulam, J. Martínez-Orgado

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CIRCADIAN RHYTHM AND CB₁ CANNABINOID RECEPTOR EXPRESSION IN THE PREFRONTAL CORTEX AND RELATED LIMBIC AREAS OF OBESE ZUCKER RATS. L. Echeazarra, S. Barrondo, G. García del Caño, I. González Burguera, M. López de Jesús, J. Sallés

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CHANGES ON METABOLIC PARAMETERS INDUCED BY ACUTE CANNABINOID ADMINISTRATION (CBD, THC) IN A RAT EXPERIMENTAL MODEL OF NUTRITIONAL VITAMIN A DEFICIENCY. L. El Amrani, J.M. Porres, A. Merzouki, A. Louktibi, P. Aranda, M.L. Jurado, G. Urbano

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ENDOCANNABINOID-MEDIATED NEUROPROTECTION IN A MPTP MICE MODEL OF PARKINSON'S DISEASE. D. Fernández-Suárez, M. Celorrio, R. Franco, M. Aymerich

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IDENTIFICATION OF CB₂ RECEPTORS IN THE BRAIN OF PATIENTS AND EXPERIMENTAL MODELS OF PARKINSON'S DISEASE. M.C. García, V. Cinquina, C. Palomo-Garo, M. Moreno-Martet, J.A. Ramos, J. Fernández-Ruiz

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5HT_{1A} RECEPTORS ARE INVOLVED IN CANNABIDIOL-INDUCED PROTECTION OF NEWBORN PIG BRAIN AFTER HYPOXIC-ISCHEMIC INSULTS. A. Gómez, M.R. Pazos, R. Layunta, N. Mohammed, M. Ceprián, M. Santos, F. Tendillo, J. Fernández-Ruiz J, J. Martínez-Orgado

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MICE LACKING THE PPAR-ALPHA GENE PRESENT REDUCED NUMBER OF DOPAMINE NEURONS IN THE SUBSTANTIA NIGRA WITHOUT ALTERING MOTOR BEHAVIOR OR DOPAMINE NEURON DECLINE OVER LIFE. R. González-Aparicio, J.A. Flores, E. Fernández-Espejo

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SEXUALLY DIMORPHIC EFFECTS OF MATERNAL DEPRIVATION AND/OR JUVENILE CANNABINOID EXPOSURE ON ADULT RATS: A BEHAVIOURAL, ENDOCRINE AND IMMUNOHISTOCHEMICAL STUDY. A. Llorente-Berzal, M. López-Gallardo, A.B. López-Rodríguez, D. Rotllant, K. Mackie, A. Armario, R. Nadal, M.P. Viveros

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CONSUMPTION OF CANNABIS IN A SAMPLE OF YOUNG PEOPLE FROM ANDALUSIA (SPAIN): DIFFERENTIAL VISION IN FUNCTION OF GENDER. O. López-Guarnido, L. Hernández-Bellido, H.C. Cataño, M. Ruiz-Veguilla

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PERIPHERAL MECHANISMS INVOLVED IN THE CONTROL OF MUSCULAR PAIN. M.I. Martín, A. Bagües, E. Sánchez

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NEW APPROACHES FOR THE STUDY OF GPCR SIGNALLING PATHWAYS. E. Martínez, A. Ricobaraza, M. Zamarbide, J. Oyarzabal, R. Franco

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EFFECTS OF CHRONIC ADMINISTRATION OF CANNABINOID RECEPTOR INVERSE AGONIST (AM 251) ON THE FOOD INTAKE, BODY WEIGHT GAIN AND OXYGEN CONSUMPTION IN OBESE ZUCKER RATS. I. Merroun, J.M. Porres, G. Urbano, P. Aranda, J. Llopis, M. Errami, M. López-Jurado

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AN ULTRA-LOW DOSE OF RIMONABANT REDUCES GHRELIN-INDUCED OREXIGENIC ACTIONS. L. Orio, F. Alen, M.T. Ramírez-López, F.R. de Fonseca, R. Gómez de Heras

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IMMUNOLocalIZATION OF VARIOUS COMPONENTS OF THE ENDOCANNABINOID SYSTEM IN THE CEREBELLUM OF PATIENTS WITH SPINOCEREBELLAR ATAXIAS. C. Rodríguez-Cueto, C. Benito, F. Espejo-Porras, E. de Lago, J. Romero, J. Fernández-Ruiz, M.L. Hernández-Gálvez, M. Gómez-Ruiz

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THE ABSENCE OF A FUNCTIONAL PPAR-ALPHA GENE EXACERBATES NEUROPATHIC AND VISCERAL PAIN IN FEMALE MICE. J. Ruiz-Medina, J.A. Flores, I. Tasset, I. Tunez, O. Valverde, E. Fernández Espejo

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PARTICIPATION OF CYCLOOXYGENASE-2 IN THE TRANSFORMATION OF 2-ARACHIDONOYL-GLYCEROL TO PROSTAGLANDIN-GLYCERYL ESTERS IN EXPERIMENTAL MODELS OF HUNTINGTON'S DISEASE. O. Sagredo, R. Pazos, T. Bisogno, S. Valdeolivas, F. Piscitelli, S. Petrosino, V. Di Marzo, J. Fernández-Ruiz

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CB₁ CANNABINOID RECEPTOR-DRIVEN PRONEUROGENIC SIGNALLING CONTROLS CORTICOSPINAL NEURON DEVELOPMENT AND FUNCTION. J. Díaz-Alonso, T. Aguado, A. de Salas, C.S. Wu, J. Palazuelos, H.C. Lu, C. Hofmann, B. Lutz, M. Guzmán, I. Galve-Roperh

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EFFECT OF OPIOID AND CANNABINOID DRUGS IN TWO MODELS OF MUSCLE PAIN IN RATS. E. Sánchez, A. Bagües, M.I. Martín

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CO-EXPRESSION OF mRNAs CODING ENDOCANNABINOID RECEPTORS 1 AND 2 IN THE MONKEY BASAL GANGLIA OUTPUT NEURONS. S. Sierra, A.J. Rico, N. Luquin, V. Gómez-Bautista, E. Roda, R. Franco, J.L. Lanciego

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EXPRESSION OF CB₂ RECEPTOR AND MU-OPIOID RECEPTOR ON IMMUNE CELLS AFTER MORPHINE SELF-ADMINISTRATION IN LEWIS AND FISHER344 RATS. M. Ucha, S.M. Coria, A. Higuera-Matas, M.A. Assis, D. Roura, E. Ambrosio