

11ª Reunión Anual
Sociedad Española de Investigación sobre
Cannabinoides
Pontevedra, 25 a 27 de noviembre de 2010

Programa científico de la Reunión

Jueves, 25 de noviembre

- 12:30-14:00** **Entrega de documentación** (Centro Social Caixanova de Pontevedra, c/ Augusto González Besada, 2)
- 14:00-16:00** **Comida**
- 16:00-16:30** **Inauguración**
- Miguel Anxo Fernández Lores, Excmo. Alcalde de Pontevedra
 - Teresa Pedrosa Silva, Vicepresidenta de la Deputación de Pontevedra
 - Ruth Pazos, Presidenta del Comité Organizador
 - Javier Fernández Ruiz, Presidente de la SEIC
- 16:30-17:30** **Conferencia Inaugural** (presentada por Manuel Guzmán)
Christopher Fowler, Universidad de Umea, Suecia:
"The role of the endocannabinoid system in prostate cancer"
- 17:30-19:00** **Mesa Redonda:** "Sativex® and other cannabinoid-based medicines" (moderadores: Javier Fernández Ruiz y Manuel Guzmán)
- Stephen Wright, GW Pharmaceuticals, Reino Unido
 - Eduardo Muñoz, VivaCell Biotechnology, España
 - Christopher Fowler, Universidad de Umea, Suecia
 - José Martínez Orgado, Hospital Universitario Puerta de Hierro Majadahonda, España
- Proyección** del vídeo conmemorativo del 80 aniversario de Raphael Mechoulam
- 19:00-19:30** **Café**
- 19:30-20:00** **Presentación del Premio a la Mejor Publicación 2010**
(presentado por Emilio Fernández Espejo)
- 20:00** **Visita guiada por la ciudad de Pontevedra y recepción ofrecida por el Excmo. Ayuntamiento de Pontevedra en el Ayuntamiento.**

Viernes, 26 de noviembre

- 09:00** **Presentación 1ª Sesión de comunicaciones orales**
(moderadores: Pedro Grandes y Nadine Jagerovic)
- 09:15-11:45** **1ª Sesión de comunicaciones orales: "Biología y farmacología del sistema endocannabinoide"**
- 09:15 O-1.1
CB₁ CANNABINOID RECEPTOR DISTRIBUTION IN RAT CEREBELLUM DURING EARLY POSTNATAL DEVELOPMENT. I. Buceta, N. Puente, L. Reguero, J.L. Mendizabal-Zubiaga, M.J. Canduela, P. Grandes, and I. Elezgarai.
- 09:30 O-1.2
INTRINSIC MECHANISMS OF THE PRODUCTION OF 2-AG AND AEA MEDIATING DIFFERENT FORMS OF SYNAPTIC PLASTICITY IN A SINGLE NEURON. N. Puente, I. Elezgarai, L. Reguero, I. Buceta, J.L. Mendizabal-Zubiaga, M.J. Canduela, P. Grandes, and O.J. Manzoni.
- 09:45 O-1.3
ENDOCANNABINOIDS POTENTIATE SYNAPTIC TRANSMISSION THROUGH ASTROCYTE STIMULATION. M. Navarrete, and A. Araque.
- 10:00 O-1.4
CB₁ CANNABINOID RECEPTORS REGULATE PYRAMIDAL NEURON SPECIFICATION. J. Díaz, T. Aguado, J. Palazuelos, C.S. Wu, B. Lutz, H.C. Lu, M. Guzmán, and I. Galve-Roperh.
- 10:15 O-1.5
EFFECTS OF NEONATAL MATERNAL DEPRIVATION AND/OR A HIGH FAT DIET ON HYPOTHALAMIC AND HIPPOCAMPAL ENDOCANNABINOID LEVELS IN MALE AND FEMALE RATS. V. Mela, G.K. Ford, M. Valerol, D. Kerr, E.M. Marco, M. Roche, D.P. Finn, and M.P. Viveros.
- 10:30 O-1.6
STUDY OF THE POLYGENIC INFLUENCE ON THE CANNABINOID TETRAD TESTS USING CONSOMIC MICE STRAINS. M. Tuda-Arizcun, T. Koide, S. Toshihiko, V. Echeverry-Alzate, K.M. Bühler, B. Lutz, and J.A. López-Moreno.
- 10:45 O-1.7
DIFFERENTIAL ROLE OF ENDOCANNABINOIDS IN MEMORY, NOCICEPTION AND ANXIETY-LIKE RESPONSES.
A. Busquets-García, E. Puighermanal, A. Pastor, R. de la Torre, R. Maldonado, and Andrés Ozaita.

- 11:00 O-1.8
SPATIAL MEMORY IMPAIRMENT IN DEVELOPMENTAL HYPOTHYROID RATS: IMPLICATION OF THE ENDOCANNABINOID SYSTEM. E. Giné, V. Echeverry-Alzate, J.A. López-Moreno, M. Tuda Arizcun, K.M. Buhler, A. López-Jiménez, A. Pérez-Castillo, and A. Santos.
- 11:15 O-1.9
CHRONIC DELTA9-TETRAHYDROCANNABINOL AFFECTS CEREBELLAR FUNCTION THROUGH THE ACTIVATION OF CEREBELLAR MICROGLIA. L. Cutando, E. Puighermanal, A. Busquets-García, J.M. Delgado-García, A. Gruart, R. Maldonado, and A. Ozaita.
- 11:30 O-1.10
CANNABINOID RECEPTOR I (CB₁) RECEPTORS ARE PRESENT IN PANCREATIC POLYPEPTIDE AND DELTA CELL SUBPOPULATIONS WITHIN MOUSE PANCREATIC ISLETS. F. Aragón, M. Bombardó, A. Ozaita, R. Maldonado, and B. Rubí.
- 11:45-13:00** **Café y sesión de pósters**
- 13:00** **Presentación 2ª Sesión de comunicaciones orales**
(moderadores: Inés Díaz-Laviada y Juan Suárez)
- 13:15-14:00** **2ª Sesión de comunicaciones orales: "Cannabinoides y cáncer"**
- 13:15 O-2.1
ROLE OF THE CB₂ CANNABINOID RECEPTOR IN ERBB2-DRIVEN BREAST CANCER PROGRESSION. M.M. Caffarel, E. Pérez-Gómez, C. Andradás, J.M. Flores, M. Guzmán, and C. Sánchez.
- 13:30 O-2.2
CANNABINOID-BASED COMBINED THERAPIES AS A NOVEL STRATEGY TO FIGHT GLIOMAS? S. Torres, M. Lorente, F. Rodríguez, S. Hernández-Tiedra, M. Salazar, E. García-Taboada, M. Guzmán, and G. Velasco.
- 13:45 O-2.3
BASALIOMA TREATMENT WITH INTRATUMORAL INJECTIONS OF A CANNABIS-OIL EXTRACTION: RELATED CASE. J. Pedraza-Valiente.
- 14:00-16:00** **Comida**
- 16:00** **Presentación 3ª Sesión de comunicaciones orales**
(moderadores: Pilar Sánchez-Blázquez y Rosa Tolón)
- 16:15-17:45** **3ª Sesión de comunicaciones orales: "Cannabinoides como drogas de abuso"**

- 16:15 O-3.1
GABA/GLUTAMATE IMBALANCE IN THE HIPPOCAMPUS OF ADULT FEMALE RATS EXPOSED TO CANNABINOIDS DURING ADOLESCENCE. A. Higuera-Matas, M. Miguéns, S.M. Coria, A. Assís, G.L. Montoya, N. del Olmo, and E. Ambrosio.
- 16:30 O-3.2
A STUDY ON WIN 55,512-2 SELF-ADMINISTRATION BEHAVIOUR IN LEWIS AND FISCHER 344 RATS. S.M. Coria, M. Miguéns, A. Assís, G.L. Montoya, N. del Olmo, C. García-Lecumberri, A. Higuera-Matas and E. Ambrosio.
- 16:45 O-3.3
COCAINE SELF-ADMINISTRATION DIFFERENTIALLY MODULATES ENDOGENOUS CANNABINOID SYSTEM PROTEINS IN THE RAT HIPPOCAMPUS OF FISHER AND LEWIS RATS. P. Rivera, M. Miguéns, S. Morales, A. Higuera-Matas, F.J. Bermúdez-Silva, F. Rodríguez de Fonseca, J. Suárez, and E. Ambrosio.
- 17:00 O-3.4
MATERNAL DEPRIVATION EFFECTS ON MDMA INDUCED CONDITIONED PLACE PREFERENCE IN ADOLESCENT RATS AND SEX- DEPENDENT CHANGES IN HIPPOCAMPAL CB₁ RECEPTOR. A. Llorente-Berzal, C. Manzanedo, J. Miñarro, and M.P. Viveros.
- 17:15 O-3.5
EFFECTS OF CANNABIS CONSUMPTION IN SUBCLINICAL NEGATIVE PSYCHOTIC EXPERIENCES. L. Hernández, J.L. Rubio, and M. Ruiz-Veguilla.
- 17:30 O-3.6
HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS (SNP´s) FROM THE CANNABINOID AND CATECHOLAMINERGIC SYSTEM ARE ASSOCIATED TO DRUG CONSUMPTION AND BASIC PSYCHOLOGICAL PROCESSES. K.M. Bühler, E. Huertas, V. Echerverry-Alzate, M. Tuda-Arizcun, and J.A. López-Moreno.

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

19:00-20:30 **Asamblea de la SEIC**
Cena (libre)

Sábado, 27 de noviembre

9:00 **Presentación 4ª Sesión de comunicaciones orales**
(moderadores: Moisés García-Arencia y José Martínez- Orgado)

9:15-12:00 **4ª Sesión de comunicaciones orales:** "Cannabinoides y neuroprotección"

- 09:15 O-4.1
WIN 55,212-2 ATENUATES BRAIN DAMAGE AFTER PERINATAL HYPOXIC-ISCHEMIC INJURY. D. Alonso-Alconada, A. Alvarez , F. J. Alvarez , S. Girelli , I. Lara-Celador , O. Arteaga , F. Goñi-de-Cerio , J. Lacalle , W. Balduini , J. Martínez-Orgado , and E. Hilario.
- 09:30 O-4.2
STUDY OF THE ADMINISTRATION OF 2-ARACHIDONYL GLYCEROL AND ANANDAMIDE ON MITOCHONDRIAL STATE, GLIAL RESPONSE AND CELL DEATH IN A HYPOXIC-ISCHEMIC RAT MODEL. I. Lara-Celador, L. Castro, A. Álvarez, J. Lacalle, D. Alonso-Alconada, F.J. Álvarez, J. Martínez-Orgado, L. Álvarez-Granda, and E.Hilario.
- 09:45 O-4.3
HISTOLOGICAL NEUROPROTECTION OF CANNABIDIOL AS FUNCTION OF TIME IN HIPOXIC-ISCHEMIC ENCEPHALOPATHY. H. Lafuente, M.R. Pazos, J. Martínez-Orgado, M.C. Rey-Santano, V. Mielgo, X. Murgia-Esteve, I. Valls, A. Soler, and F.J. Álvarez.
- 10:00 O-4.4
CEREBRAL AND EXTRACEREBRAL EFFECTS OF CBD IN PIGLETS AFTER HYPOXIA-ISCHEMIA ARE MEDIATED BY CB2 RECEPTORS. M.R. Pazos, L. Arruza, A. Gómez, M. Santos, F. Tendillo, H. Lafuente, E. Hilario, F.J. Álvarez, and J. Martínez-Orgado.
- 10:15 O-4.5
CANNABIDIOL REDUCES DISTANT LUNG INJURY SECONDARY TO HYPOXIC-ISCHEMIC BRAIN DAMAGE IN PIGLETS. L. Arruza, M.R. Pazos, A. Gómez, M. Santos, F. Tendillo, H. Lafuente, E. Hilario, F.J. Álvarez, and J. Martínez-Orgado.
- 10:30 O-4.6
CANNABINOIDS AMELIORATE DISEASE PROGRESSION IN A MODEL OF MULTIPLE SCLEROSIS IN MICE, ACTING THROUGH ANTI-INFLAMMATORY AND ANTI-GLUTAMATERGIC MECHANISMS. M. Moreno-Martet, A. Cabranes (*in memoriam*), J.A. Ramos, J. Fernández-Ruiz, and E. de Lago.
- 10:45 O-4.7
PROTECTIVE ROLE OF CANNABINOIDS IN AN EXPERIMENTAL MODEL OF ALZHEIMER'S DISEASE. E. Aso, E. Palomer, S. Juvés, R. Maldonado, F.J. Muñoz, I. Ferrer.
- 11:00 O-4.8
PROLONGED ORAL CANNABINOID ADMINISTRATION PREVENTS NEUROINFLAMMATION AND IMPROVES COGNITIVE DEFICITS IN A TRANSGENIC MODEL OF ALZHEIMER'S DISEASE. A.M. Martín-Moreno, B. Brera, N. Innamorato, A. Cuadrado, and M.L. de Ceballos.

11:15 O-4.9
CHANGES IN SPECIFIC COMPONENTS OF THE ENDOCANNABINOID SYSTEM IN SPINOCEREBELLAR ATAXIAS. C. Rodríguez-Cueto, F. Espejo Porras, J. Fernández-Ruiz, M. Hernández-Gálvez, and M. Gómez-Ruiz.

11:30 O-4.10
OLEYLETHANOLAMIDE IS A POWERFUL NEUROPROTECTANT IN DIFFERENT ANIMAL MODELS OF PARKINSONISM. R. González-Aparicio, J.A. Flores-Cordero, and E. Fernández-Espejo.

**12:15-13:30 Entrega de Premios a las Mejores Comunicaciones
Clausura y aperitivo**

SESIÓN DE PÓSTERS

P.1

MODULATION OF BRAIN ENDOCANNABINOID SYSTEM DURING PRIMARY DEMYELINATION AND REMYELINATION. A. Bernal-Chico, C. Matute, and S. Mato.

P.2

HYPOCRETINS ARE INVOLVED IN THE REINFORCING PROPERTIES OF THE SYNTHETIC CANNABINOID WIN 55,212-2. A. Flores, R. Maldonado, and F. Berrendero.

P.3

LOSS OF STRIATAL CB1 CANNABINOID RECEPTORS IS A KEY PATHOGENIC FACTOR IN HUNTINGTON'S DISEASE. C. Blázquez, A. Chiarlone, O. Sagredo, T. Aguado, M.R. Pazos, E. Resel, J. Palazuelos, B. Julien, M. Salazar, C. Börner, C. Benito, C. Carrasco, M. Diez-Zaera, P. Paoletti, M. Díaz-Hernández, J. J. Lucas, J. G. de Yébenes, G. Marsicano, K. Monory, B. Lutz, J. Romero, J. Alberch, E. Pérez-Navarro, S. Ginés, J. Kraus, J. Fernández-Ruiz, I. Galve-Roperh, and M. Guzmán.

P.4

CB₁ CANNABINOID RECEPTOR IN THE DEVELOPMENT AND EXPRESSION OF OSTEOARTHRITIS. C. La Porta, S.A. Bura, and R. Maldonado.

P.5

AUTOPHAGY DURING NEUROENDOCRINE DIFFERENTIATION OF LNCaP CELLS. ROLE OF CANNABINOIDS. M.C. Morell, D. Vara, S. García-Pérez, I. Díaz-Laviada, and N. Rodríguez-Henche.

P.6

THE PUTATIVE CANNABINOID RECEPTOR GPR55 PROMOTES CANCER CELL PROLIFERATION VIA ERK. C. Andradas, M.M. Caffarel, E. Pérez-Gómez, M. Salazar, M. Lorente, G. Velasco, M. Guzmán, and C. Sánchez.

P.7

SIMULTANEOUS SYMPTOM-RELIEVING AND NEUROPROTECTIVE TREATMENT WITH Δ^9 -THCV IN ANIMAL MODELS OF PARKINSON'S DISEASE. C. García, C. Palomo, M. García-Arencibia, J.A. Ramos, R.G. Pertwee, and J. Fernández-Ruiz.

P.8

THE ACTIVATION OF THE ENDOCANNABINOID SYSTEM REDUCES THE TAT INDUCED-EXPRESSION OF PRO-INFLAMMATORY PARAMETERS IN GLIAL CELLS. C. Benito, A.I. Castillo, L. Ruiz-Valdepeñas, M. Moreno, J. Romero, and R. M. Tolón.

P.9

ROLE OF mTOR IN THE PHARMACOLOGICAL EFFECTS OF THC. E. Puighermanal, A. Busquets-García, M. Gomis, R. Maldonado, and A. Ozaita.

P.10

COMPARATIVE STUDY OF DIFFERENT VEHICLES ON THE CANNABINOID TETRAD IN MICE. E. Sánchez, C. Goicoechea, and M.I. Martín.

P.11

HYDROSOLUBLE CANNABINOID COMPOUNDS: SYNTHESIS, BIOLOGICAL EVALUATION AND METABOLISM STUDIES. L. Moreno-Capellán, H. Guillén, L. Hernández-Folgado, R. Girón, T. Herraiz, M.I. Martín, M. Gómez, M. Gómez-Cañas, J. Fernández-Ruiz, P. Goya, and N. Jagerovic.

P.12

THE INVERSE AGONIST EFFECT OF RIMONABANT IN HUMAN POSTMORTEM BRAIN IS MEDIATED BY $G_{\alpha i3}/G_{\alpha o}$ PROTEINS. R. Díez-Alarcia, A.M. Erdozain, J.J. Meana, and L.F. Callado.

P.13

THE SPECIFIC CB_2 AGONIST, HU-910, DOES NOT MODIFY DISEASE PROGRESSION IN AN ANIMAL MODEL OF ALZHEIMER'S DISEASE. L. Ruiz-Valdepeñas, C. Benito, M. Moreno, C. Vázquez, R.M. Tolón, and J. Romero.

P.14

PRECISE SUBCELLULAR LOCALIZATION OF THE CB_1 RECEPTOR IN HIPPOCAMPAL GLIA. M.J. Canduela, N. Puente, I. Buceta, L. Reguero, J.L. Mendizabal-Zubiaga, K. Mackie, G. Marsicano, and P. Grandes.

P.15

CANNABIDIOL PROTECTS OLIGODENDROCYTE PROGENITORS BY DIRECT AND INDIRECT MECHANISMS: IMMUNOMODULATORY ACTIONS IN A VIRAL MODEL OF MULTIPLE SCLEROSIS. M. Mecha, P. Íñigo, M. Hernangómez, L. Mestre, K. Goble, R. Mechoulam, and C. Guaza.

P.16

NON-PSYCHOACTIVE CANNABINOIDS ATTENUATE MCP-1 EXPRESSION: IMPLICATIONS IN MULTIPLE SCLEROSIS. P.M. Íñigo, L. Mestre, M. Mecha, M. Hernangómez, and C. Guaza.

P.17

LONG TERM BENEFICIAL EFFECT OF CANNABIDIOL ON NEUROLOGICAL FUNCTION AFTER NEWBORN HYPOXIA-ISCHEMIA. M.R. Pazos, M. Santos, F. Tendillo, A. Gómez, L. Arruza, H. Lafuente, E. Hilario, F.J. Álvarez, and J. Martínez-Orgado.

P.18

THE LOSS OF HINT1 REVEALS THE NMDAR-SENSITIVE COMPONENT OF CANNABINOID INDUCED ANALGESIA. P. Sánchez-Blázquez, A. Vicente-Sánchez, M. Rodríguez-Muñoz, E. Berrocoso, and J. Garzón.

P.19

URB602, A MONOACYLGLYCEROL LIPASE INHIBITOR, PROTECTS FROM THE LONG-TERM CONSEQUENCES OF A NEONATAL HYPOXIC-ISCHEMIC BRAIN INJURY IN RATS. S. Girelli, S. Carloni, A. Duranti, A. Tontini, D. Piomelli, D. Alonso-Alconada, E. Hilario, and W. Balduini.

P.20

NEUROPROTECTIVE EFFECTS OF PHYTOCANNABINOID-BASED MEDICINES IN A RAT MODEL OF HUNTINGTON'S DISEASE. O. Sagredo, M.R. Pazos, S. Valdeolivas, V. Satta, R.G. Pertwee, and J. Fernández-Ruiz.

P.21

REGULATION OF SOMATODENDRITIC 5-HT_{1A} RECEPTORS BY URB597 ALONE OR IN COMBINATION WITH THE ANTIDEPRESSANT FLUOXETINE IN MICE. B.Treceño, E. Castro, A. Martín, and A. Pazos.

P.22

EXPRESSION OF THE mRNAs CODING THE CANNABINOID RECEPTORS 1 AND 2 IN THE PALLIDAL COMPLEX OF MACACA FASCICULARIS. R. Franco, A.J. Rico, P. Barroso-Chinea, L. Callén, E. Roda, V. Gómez-Bautista, N. Luquin, S. Sierra, C. Lluís, J.L. Labandeira-García, J.L. Lanciego.