

Comunicaciones Póster Poster communications

Listado de Posters por Symposium y orden alfabético de título

Normas de Presentación de las COMUNICACIONES POSTERS (presencial)

- El póster se editará en configuración **vertical**, con unas dimensiones de **90cm** (ancho) x **120cm** (alto), para ser expuesto en los paneles que se instalarán en el Congreso a tal efecto. La instalación del póster se realizará por los autores el día **26 de octubre** a su llegada, o bien, el día **27 de octubre** antes de su visita.

La secretaría técnica les proporcionará los paneles y el material para pegar el póster.

Secretaría Técnica - Sede Exposición técnica: El Antiguo Convento, Sala Invernadero

C/ Las Monjas, s/n. 28660 Boadilla del Monte (Madrid)

Normas de Presentación de las COMUNICACIONES E- POSTERS (Virtual)

La presentación en PowerPoint (una sola diapositiva) de su Comunicación y video de defensa

- * E-Poster video de defensa (visita virtual a través de la página web)

Todas las Comunicaciones **OPTAN A PREMIO**

Symposium 1: "Stem Cells"

Chairs:

Colin R. Goding. Ludwig Institute for Cancer Research (LICR). Oxford. UK

Pedro Fernández. Instituto Universitario de Investigación Biosanitaria de Extremadura (INUBE). Universidad de Extremadura. Badajoz. Spain

BROC2: A new human cell line to study the airway epithelium g (ID_40)

Selene Diaz-Chamorro, Juan Francisco Barrera-Lopez, Guadalupe Cumplido-Laso, Clara Maria Mateos-Quiros, Sergio Garrido-Jimenez, Angel Carlos Roman, Francisco Centeno and Jose Maria Carvajal-Gonzalez

Departamento de Bioquímica, Biología Molecular y Genética, Facultad de Ciencias, Universidad de Extremadura, 06071-Badajoz, Spain.

Colon cancer patient-derived organoids as a platform for personalized antitumoral drug testing (ID_3)

Bustamante-Madrid P^{1,2}, Costales-Carrera A^{1,2}, Fernández-Barral A^{1,2}, Rodríguez-Cobos J¹, Barbáchano A^{1,2} and Muñoz A^{1,2}

1 Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid; 2 CIBERONC, Madrid

*** Contribution of undifferentiated cells to metastasis in Neuroblastoma (ID_10)**

Amador-Álvarez A⁽¹⁾⁽²⁾, Gómez-Muñoz M.A⁽¹⁾⁽³⁾, Pardo R⁽¹⁾⁽³⁾, Vega F.M⁽¹⁾⁽²⁾

(1) Instituto de Biomedicina de Sevilla (IBiS), Hospital Universitario Virgen del Rocío/CSIC/Universidad de Sevilla, Seville, Spain; (2) Departamento de Biología Celular, Universidad de Sevilla, Seville, Spain; (3) Departamento de Fisiología Médica y Biofísica, Universidad de Sevilla, Seville, Spain

Disruption of TAp73 isoform by CRISPR-Cas9-mediated gene editing in mouse embryonic stem cells reveals alterations in adhesion gene networks (ID_38)

Martínez-García N.^{1,2}, Maeso-Alonso L.^{1,3}, López-Ferreras L.^{1,3}, Martín-López M.^{1,4}, Díez-Matilla A.¹, Villoch-Fernandez J.^{1,3}, Alonso-Olivares H.^{1,3}, Marques M. M.^{2,5} and Marin M. C.^{1,3}

1Instituto de Biomedicina (IBIOMED), Universidad de León, 24071 León, Spain; 2Departamento de Producción Animal, Universidad de León, 24071 León, Spain; 3Departamento de Biología Molecular, Universidad de León, 24071 León, Spain; 4Biomar Microbial Technologies, Parque Tecnológico de León, Armunia, 24009 León, Spain; 5Instituto de Desarrollo Ganadero y Sanidad Animal (INDEGSAL), Universidad de León, 24071 León, Spain.

*** Protein convertase 9 in colorectal cancer stem cells (ID_104)**

García-Gallstegi P., Martín A., Unda F., Badiola I.

Departament of Cell Biology and Histology, Faculty of Medicine and Nursing. Leioa/ Biscay. Spain

RELATIONSHIP BETWEEN THE PRESENCE OF MELANOCYTES AND THE PRESERVATION OF THE UNDIFFERENTIATED PHENOTYPE OF THE CORNEAL EPITHELIAL STEM/PROGENITOR CELLS IN HUMAN CELL CULTURES (ID_74)

Romo-Valera C¹, Pérez-Garrastachu M¹, Rodríguez-Astigarraga M¹, Arluzea J¹, Boyano MD^{1,2}, Andollo N^{1,2}

1Department of Cell Biology and Histology, School of Medicine and Nursing, University of the Basque Country, Sarriena, S/N, 48940 Leioa, Spain; 2Biocruces Bizkaia Health Research Institute, Cruces Plaza S/N, 48903 Barakaldo, Spain

Role of TRIB3 pseudokinase in luminal breast cancer (ID_78)

Alba Orea-Soufi^{1,2}, Mar Lorente^{1,2}, Sonia Castillo Lluva^{1,2}, Paola Martín-Cabrera¹, Silvia Recuero¹, Elena García-Taboada¹, Nélida Salvador-Tormo^{1,2}, Manuel Moreno-Valladares³, Estíbaliz Gabicagogeascoa^{1,2}, Marina Mendiburu Elicabe^{1,4}, Adrián Blanco-Gómez⁵, Maria Salazar-Roa¹, Ana García-Casas^{1,2}, Angélica Martínez^{1,2}, Ander Matheu⁵, Isabel M Álvarez-López³, Guillermo Velasco

1 Department of Biochemistry and Molecular Biology, School of Biology, Complutense University, Madrid, Spain, **2** Instituto de Investigaciones Sanitarias San Carlos (IdISSC), Madrid, Spain; **3** Hospital Universitario Donostia, Donostia, Spain; **4** Universidad de Salamanca, Salamanca, Spain; **5** IIS Biodonostia, Donostia, Spain

*** Systemic but not intra-articular infusion of human adipose-derived mesenchymal stromal cells (hAD-MSCs) attenuates acute arthritis flare in a rabbit model (ID_36)**

Medina JP^{*1}, Bermejo Álvarez I¹, Yáñez R², Fernández-García M², García-Olmo D³, Bueren J², Herrero-Beaumont G¹, Largo R¹.

1 Bone and Joint Research Unit, Rheumatology Department, IIS-Fundación Jiménez Díaz, Madrid, Spain; **2** Hematopoietic Innovative Therapies Division. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) and Centro de Investigación Biomédica en Red de Enfermedades Raras (CIBER-ER), Madrid, Spain. IIS-Fundación Jiménez Díaz UAM, Madrid, Spain; **3** New Therapies Laboratory, IIS-Fundación Jiménez Díaz UAM, Madrid, Spain. Department of Surgery, Fundación Jiménez Díaz University Hospital, Madrid, Spain. Department of Surgery, School of Medicine UAM, Madrid, Spain.

Vitamin D modulates cell phenotype and proliferation in human colon organoids (ID_2)

Bustamante-Madrid P^{1,2}, Fernández-Barral A^{1,2}, Albadea-Rodríguez D^{1,2}, Larriba MJ^{1,2}, Muñoz A^{1,2}, Lafarga M³, and Barbáchano A^{1,2}

1 Instituto de Investigaciones Biomédicas "Alberto Sols" (CSIC-UAM), Madrid; **2** CIBERONC, Madrid **3** University of Cantabria-IDIVAL, Santander

Symposium 2: "Cell differentiation and reprogramming"

Chairs:

Carmen Marín. Universidad de León (ULE). León. Spain

Manuel Reina. Universitat de Barcelona. Barcelona. Spain

* **DLK1, an inhibitory non-canonical ligand of NOTCH receptors, inhibits osteoblastic differentiation of pre-osteoblastic MC3T3-E1 cell line. (ID_95)**

González-Gómez, M.J.¹, Rodríguez-Cano, M², Resuela-González, J.L.², Nueda, M.L.², Laborda, J.², and Baladrón, V.³

Laboratory of Biochemistry and Molecular Biology, Department of Inorganic and Organic Chemistry and Biochemistry, Higher Technical School of Agricultural and Forestry Engineering ¹/ Pharmacy School ²/ Medical School ³/ Regional Biomedical Research Center (CRIB)/ Biomedicine Unit, UCLM/CSIC. Albacete, Spain.

In vitro exposure of myoblasts to bisphenol A impairs their differentiation towards cardiomyocytes (ID_1)

Marta Lombó¹, Enrique Escarda-Castro², María Paz Herráez³

¹Departamento de Reproducción Animal, INIA, Madrid España; ²MERLN Institute for Technology-Inspired Regenerative Medicine, Maastricht, Países Bajos; ³Departamento de Biología Molecular, León, España

Inhibitors of mammalian kinase GSK-3 β promote cell reprogramming and in vitro embryogenesis in plants (ID_83)

Pérez-Pérez Y¹, Berenguer E¹, Carneros E¹, Gil C², Martínez A², Testillano PS¹

¹Pollen Biotechnology of Crop Plants group, Center of Biological Research Margarita Salas, CIB-CSIC, Ramiro de Maeztu 9, 28040 Madrid, Spain. ²Translational Medicinal and Biological Chemistry group, Center of Biological Research Margarita Salas, CIB-CSIC, Ramiro de Maeztu 9, 28040 Madrid, Spain

Junctional adhesion molecule 3 expression in the mouse airway epithelium is linked to multiciliated cells (ID_44)

Mateos-Quiros, C.M.¹, Garrido-Jimenez, S.¹, Álvarez-Hernán, G.², Diaz-Chamorro, S.¹, Barrera-Lopez, J.F.¹, Morcillo, F.J.², Roman, A.C.¹, Centeno, F.¹ and Carvajal-Gonzalez, J.M.¹

¹-Departamento de Bioquímica, Biología Molecular y Genética, Facultad de Ciencias, Universidad de Extremadura, 06071-Badajoz, Spain. ²-Área de Biología Celular, Facultad de Ciencias, Universidad de Extremadura, 06006, Badajoz.

* **Loss of epithelial Jagged 1 disrupts the integrity of adult homeostatic mammary gland (ID_34)**

Sáez de Cámara A.¹, Malaxetxebarria S.², Meisel CT.³, Mitsiadis TA.³, Unda F.¹, Jiménez-Rojo L.¹

¹ University of the Basque Country. Leioa, Bizkaia; ² Cruces University Hospital. Barakaldo, Bizkaia; ³ University of Zurich. Zurich, Switzerland

Lysosomal degradation of autophagosomes regulates the postnatal intestinal epithelium maturation (ID_79)

Gonzalo Herranz, Tamara González, Covadonga Díaz-Díaz, Marta Iborra, Nuria Martínez-Martín and Fernando Martín-Belmonte

Centro de Biología Molecular Severo Ochoa (CBMSO) CSIC-UAM, Madrid

Mitochondria SOD2 regulates cell differentiation and self-renewal in male fertility (ID_50)

García-Soler B.^{a,b}, Cepas V.^c, Artime-Naveda F.^a, Fernández-Vega S.^{a,b}, Sáinz RM^{a,b}, Mayo JC.^{a,b*}

- a. Department of Morphology and Cell Biology, Redox Biology Unit. University of Oviedo, School of Medicine, Julián Clavería 6, 33006 Oviedo, Asturias.
- b. University Institute of Oncology of Asturias (IUOPA). University of Oviedo. Oviedo, Asturias.
- c. Candiolo Cancer Institute IRCCS, Turin, Italia

***Morphometric analysis of the skin wound healing process on gilthead seabream (*Sparus aurata*) fed silk nanoparticles (ID_7)**

Albaladejo-Riad, N.¹, Espinosa, C.¹, Carissimí², G.², Díaz Baños F.G.², Villora, G.², & Esteban, M.A.¹

¹Immunobiology for aquaculture group. Department of Cell Biology and Histology. Faculty of Biology, University of Murcia, 30100 Murcia; ²Department of Physical Chemistry, Faculty of Chemistry, University of Murcia, Murcia,

p53 regulation by MDM2 contributes to self-renewal and differentiation of basal stem cells in mouse and human airway epithelium (ID_43)

Garrido-Jimenez, S.¹, Barrera-Lopez, J.F.¹, Diaz-Chamorro, S.¹, Mateos-Quiros, C.M.¹, Rodriguez-Blanco, I.², Marquez-Perez, F.², Lorenzo, M.J.¹, Centeno, F.¹, Roman, A.C.¹, Carvajal-Gonzalez, J.M.¹

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Rho GTPases signaling in Neuroblastoma tumors (ID_9)

Gómez-Muñoz M.A.⁽¹⁾, Amador-Álvarez A.⁽²⁾, Pardo R.⁽¹⁾, Vega F.M.⁽²⁾

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Simultaneous mapping of calcium and contraction in the developing heart of zebrafish larvae (ID_89)

Salgado-Almario J.¹, Vicente M.¹, Molina Y.¹, Martínez Sielva A.¹, Vincent P.², Domingo B.¹ and Llopis J.¹

¹Centro Regional de Investigaciones Biomédicas (CRIB), Facultad de Medicina de Albacete, Universidad de Castilla-La Mancha, Albacete, Spain; ²Sorbonne Université, CNRS, Paris, France

***The osteogenic differentiation of C3H10T1/2 mesenchymal cells is modulated by DLK proteins (ID_96)**

Rodríguez-Cano MM¹, González-Gómez MJ², Resuela-González JL¹, Baladrón V³, Nueda ML¹, Laborda J¹.

Laboratory of Biochemistry and Molecular Biology, Department of Inorganic and Organic Chemistry and Biochemistry, Pharmacy School ¹/ Higher Technical School of Agricultural and Forestry Engineering ²/ Medical School ³/ Regional Biomedical Research Center (CRIB)/ Biomedicine Unit, UCLM/CSIC. Albacete, Spain.

***The role of NOTCH receptors in the osteoblastic differentiation of mesenchymal C3H10T1/2 cell line (ID_97)**

Resuela-González, J. L.¹, Rodríguez-Cano, M.¹, González-Gómez, M. J.², Baladrón, V³, Nueda, M. L.¹.

Laboratory of Biochemistry and Molecular Biology, Department of Inorganic and Organic Chemistry and Biochemistry, Pharmacy School ¹/ Higher Technical School of Agricultural and Forestry Engineering ²/ Medical School ³/ Regional Biomedical Research Center (CRIB)/ Biomedicine Unit, UCLM/CSIC. Albacete, Spain.

Symposium 3: "Transcription/Translation"

Chairs:

Javier León. IBBTEC. Cantabria. Spain

Javier Martínez-Useros. University Hospital "Fundacion Jimenez Diaz". Spain

*** Activity of CDK9 PROTAC (THAL-SNS-032) in HER2 positive breast cancer (ID_19)**

Noblejas-López MDM¹, Gandullo-Sánchez L², Galán-Moya EM^{1,3}, López-Rosa R¹, Tébar-García D¹, Nieto-Jiménez C¹, Burgos M¹, Pandiella², and Ocana A^{1,4}

1 Translational Oncology Laboratory, Centro Regional de Investigaciones Biomédicas, Castilla-La Mancha University (CRIB-UCLM), Albacete, Castilla-La Mancha, Spain; **2** Instituto de Biología Molecular y Celular del Cáncer and CIBERONC. CSIC Salamanca, Castilla y León, Spain; **3** Faculty of Nursing, Castilla-La Mancha University (UCLM), Albacete, Spain; **4** Hospital Clínico Universitario San Carlos, IDISSC and CIBERONC, Madrid, Spain.

Pirin as a modulator of JARID1B gene expression and prognostic marker of human melanoma (ID_54)

Penas Lago C¹, Rasero J^{2,3}, Ezkurra PA¹, Izu R², Andollo N¹, Bosserhof AK^{4,5}, Alonso S⁶, Asumendi A^{1,2} and Boyano MD^{1,2}.

(1) Department of Cell Biology and Histology. Faculty of Medicine and Nursing, University of the Basque Country-UPV/EHU, Leioa, Bizkaia; **(2)** Biocruces Bizkaia Health Research Institute, Barakaldo, Bizkaia; **(3)** Department of Psychology, Dietrich College of Humanities and Social Sciences. Carnegie Mellon University, Pittsburg, Pensilvania; **(4)** Institute of Biochemistry, Friedrich-Alexander-Universität, Erlangen; **(5)** Comprehensive Cancer Center (CCC) Erlangen-EMN, Erlangen; **(6)** Department of Genetics, Physical Anthropology and Animal Physiology. Faculty of Science and Technology, University of the Basque Country-UPV/EHU, Leioa, Bizkaia.

Symposium 4: "Chromatin dynamics and epigenetics in development"

Chairs:

Paz Herráez. Universidad de León. León. Spain

Crisanto Gutiérrez. Centro de Biología Molecular Severo Ochoa (CBMSO). Madrid. Spain

In vitro and in vivo rescue of resistance to BET inhibitors by targeting PLK1 in triple negative breast cancer (ID_75)

Nieto-Jiménez, C¹; Galán-Moya, EM²; Corrales-Sánchez, V³; Noblejas-López, MdM^{2,4}; Burgos, M²; Montero, JC⁵; Gómez-Juárez, M⁴; Granada-Picazo, M⁴; Pandiella, A⁵; Ocaña, A^{1,2,4}.

¹ Hospital Clínico Universitario San Carlos, IDISSC and CIBERONC, Madrid, Spain. ² Centro Regional de Investigaciones Biomédicas (CRIB), Universidad de Castilla La Mancha, Albacete, Spain; ³ Hospital Virgen de la Luz, Cuenca, Spain, ⁴ Translational Research Unit, Albacete University Hospital, Albacete, Spain; ⁵ Instituto de Biología Molecular y Celular del Cáncer del CSIC, IBSAL and CIBERONC, Salamanca, Spain

Sensing nuclear compaction gradients: a new model to describe compaction phase transitions in cell nuclei (ID_62)

Zamora-Carreras, H.^{1,4}, López-Menéndez, H.^{2,3}, Casselli, N.^{2,3}, Redondo-Muñoz, J.^{4,5}, Monroy, F.^{2,3}, and Roda-Navarro, P.^{1,3}

¹ Faculty of Medicine, Universidad Complutense de Madrid, Madrid, Spain, ² Faculty of Chemical Sciences, Universidad Complutense de Madrid, Madrid, Spain; ³ Hospital Doce de Octubre Health Research Institute (imas12), Madrid, Spain

⁴ Centro de Investigaciones Biológicas Margarita Salas (CSIC), Madrid, Spain; ⁵ Lydia Becker Institute of Immunology and Inflammation, Manchester Collaborative Centre for Inflammation Research, University of Manchester, Manchester, United Kingdom

The SUMO and ubiquitin pathways control DNA replication (ID_67)

Martín-Rufo R., Pardo A., Álvarez-Montero A., Gómez-Vicente Franqueira M., Lecona E.

Centro de Biología Molecular Severo Ochoa (UAM-CSIC), Madrid

Symposium 5: "Metabolism and Signal Transduction"

Chairs:

Custodia García. Universidad Rey Juan Carlos. Madrid. Spain

Mar Malagón. Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC). Spain

* A hypomethylating treatment inhibits autophagy in pancreatic cancer cells and induces effective apoptosis (ID_20)

Montenegro MF¹, Martí-Díaz R¹, Navarro-Incio AM², Tolivia-Fernández J², Cabezas-Herrera J³, Sánchez-del-Campo L¹, Rodríguez-López JN¹

*1*Department of Biochemistry and Molecular Biology A, School of Biology, IMIB-University of Murcia, 30100, Murcia, Spain. *2*Departamento de Morfología y Biología Celular, Facultad de Medicina, Universidad de Oviedo, Oviedo, Asturias, Spain. *3*Translational Cancer Research Group, University Hospital Virgen de la Arrixaca, IMIB, Murcia, Spain.

CITK and ZIPK differentially control NMII activation, lamellipodial dynamics and cell polarity and division in migrating cells (ID_106)

Marina Garrido-Casado, Clémence Thiant and Miguel Vicente-Manzanares

Molecular Mechanisms Program, Centro de Investigación del Cáncer and Instituto de Biología Molecular y Celular del Cáncer, Consejo Superior de Investigaciones Científicas (CSIC)-University of Salamanca, 37007 Salamanca, Spain.

Crosstalk between survival pathways in glioblastoma chemoresistance (ID_76)

Zarzuela, L., Durán, R. V., Tomé, M.

Centro Andaluz de Biología Molecular y Medicina Regenerativa, CABIMER – CSIC, Sevilla, Sevilla.

Functional characterization of Sur8 and its implication in renal pathophysiology (ID_105)

M.I. GarcíaGonzález^I, V.M. Cordero^I, M.P. de Lucas^{II}, B. Anta^{II}, J.L. Oliva^{III}, A. Banzo^I, P. Palau^I, D. Sardón^{VI}, M.R. Baquero^I, J.M. Rojas^{II}, D. PeñaJiménez^I, M. Yunta^I

*I*Unidad de Investigación Biomédica, Universidad Alfonso X El Sabio, Villanueva de la Cañada, Madrid. *II*Unidad de Biología Celular, Unidad Funcional de Investigación en Enfermedades Crónicas, Majadahonda, Madrid. *III* Unidad de Senescencia Celular, Unidad Funcional de Investigación en Enfermedades Crónicas (UFIEC), Instituto Carlos III, Majadahonda, Madrid. *IV* Unidad de Anatomía Patológica, Hospital Clínico Veterinario, Universidad Alfonso X el Sabio, Villanueva de la Cañada, Madrid.

Glut1 as colorectal cancer biomarker in liquid biopsy (ID_102)

JL Román¹, José Manuel García-Martínez¹, Rosa Martín-Orozco¹, Ana Chocarro-Calvo¹, María Gutiérrez-Salmerón¹, Alberto Sanchez¹, Ana Ramírez¹, María Carmen Fiuza³, Antonio De la Vieja², Custodia García-Jiménez¹.

*1*Universidad Rey Juan Carlos, Alcorcón, ES, *2*Instituto de Salud Carlos III, Majadahonda, ES, *3*Departamento de cirugía, Hospital Universitario Fundación Alcorcón, Alcorcón, ES

Identification of Lipid Biomarkers of Malignant Progression of Cutaneous Melanoma by MALDI-IMS (ID_108)

Huergo Baños C¹, Garate J¹, Fernández R¹, Martín J², Zabalza I³, Artola JL⁴, Martí RM⁵, Velasco V⁶, Astigarraga E⁷, Barreda-Gómez G⁷, Boyano MD^{6,8} and Fernández J.A¹

1Department of Physical Chemistry, Faculty of Science and Technology, UPV/EHU. Leioa, Spain. **2**Department of Electricity and Electronics, Faculty of Science and Technology, UPV/EHU. Leioa, Spain. **3** Department of Pathology. Galdakao-Usansolo Hospital. Galdakao, Spain. **4** Department of Dermatology. Galdakao-Usansolo Hospital. Galdakao, Spain. **5** Department of Dermatology. Hospital Universitari Arnau de Vilanova. Lleida, Spain. **6** Biocruces Bizkaia Institute, Cruces University Hospital. Barakaldo, Spain **7** Department I+D, IMG Pharma Biotech S.L. BIC Bizkaia. Derio, Spain. **8** Department of Cell Biology and Histology, Faculty of Medicine and Nursing, UPV/EHU. Leioa, Spain

Identification of new functions of Pgc1 and mitochondrial biogenesis in epicardium development (ID_65)

Portella-Fortuny R^{1,2}, Ramiro-Pareta M^{1,2}, Müller-Sánchez C¹, Gerpe A³, Pardo R³, Reina M¹, Soriano F.X^{1,4}, Villena J.A³ and Martínez-Estrada O.M^{1,2}

1Celltec-UB, Department of Cell Biology, Physiology and Immunology, Faculty of Biology, University of Barcelona, Barcelona; **2**Institute of Biomedicine (IBUB), University of Barcelona, Barcelona; **3**Laboratory of Metabolism and Obesity, Vall d'Hebron Research Institute, Universitat Autònoma de Barcelona; **4**Institut de Neurociències, Universitat de Barcelona, Barcelona

Induction of oxidative stress and different metabolic profiles with polymeric-coated IONPs (ID_68)

Daviu N., Portilla Y., Barber DF.

Centro Nacional de Biotecnología (CNB-CSIC), Madrid.

Metformin induces cell death of prostate cancer cells by reticulum stress and re-location of GLUT1 protein. (ID_86)

Alba Moran-Alvarez^{1,2}, Pedro González-Menéndez³, Rafael Cernuda-Cernuda¹, Juan C. Mayo^{1,2} and Rosa M. Sainz^{1,2}

1Departamento de Morfología y Biología Celular. **2**Instituto Universitario de Oncología del Principado de Asturias (IUOPA). Universidad de Oviedo. **3**Institut de Genetique Moleculaire de Montpellier, University of Montpellier, CNRS

*** miRNA-based therapy to overcome chemoresistance in cervix cancer (ID_98)**

Muñoz-Galdeano, T.¹, Reigada, D¹, Gamarra García-Bermejo, M², Soto Neira, A¹, De la Barreda, A¹, Nieto-Díaz, M¹, M Maza, R¹.

(1)Grupo de Neuroprotección Molecular. Hospital Nacional de Paraplégicos. Unidad e Investigación. Finca La Peraleda s/n; 45004, Toledo, Toledo. **(2)** Laboratory of Local Translation in Neurons and Glia. Achucarro Basque Center for Neuroscience. Science Park of the UPV/EHU; B. Sarriena, s/n.. Leioa, Bilbao.

New mechanisms promoting metastasis and survival upon metabolic stress (ID_14)

Vivas-García Y¹, Louphrasitthiphol P¹, Sánchez del Campo L², Goding C¹.

1Department of Biochemistry and Molecular Biology A, School of Biology, IMIB-University of Murcia, 30100, Murcia, Spain. **2**Departamento de Morfología y Biología Celular, Facultad de Medicina, Universidad de Oviedo, Oviedo, Asturias, Spain. **3**Translational Cancer Research Group, University Hospital Virgen de la Arrixaca, IMIB, Murcia, Spain.

*** New three-dimensional in vitro model to study tumour - stroma interactions in melanoma progression. (ID_110)**

Sánchez-De la Cruz A.¹, Ramírez-Sánchez A.¹, Gutiérrez-Salmerón M.¹, García-Martínez JM.¹, De la Vieja, A.², García-Jiménez C.¹, Chocarro-Calvo, A.¹.

1 Universidad Rey Juan Carlos, Alcorcón, Madrid. **2** UFIEC, Instituto de Salud Carlos III, Majadahonda, Madrid

Optimization of the sperm DNA oxidation analysis by the 8-hydroxy-2'-deoxyguanosine (8-OHdG) in Sus scrofa (domestic pig) (ID_94)

Lacalle E., Fernández-González C., Rivas G., Martínez-Pastor F., Soriano-Úbeda C.

Institute of Animal Health and Cattle Development (INDEGSAL) and Department of Molecular Biology (Cell Biology), University of León, León 24071, Spain.

Photodynamic therapy optimization after 5-Fluorouracil treatment in Squamous Cell Carcinoma (ID_29)

Nicolás Morala J.^{1,2}, Terrén Gómez S.¹, Juarranz De la Fuente A.^{1,2}, González Rodríguez S.^{2,3}

1. Universidad Autónoma de Madrid; 2. Instituto Ramón y Cajal de Investigación Sanitaria; 3. Universidad de Alcalá de Henares

Role of the NADPH oxidase NOX4 in the response to TGF-beta in hepatocellular carcinoma cells (ID_63)

Espinosa-Sotelo R.^{1,2,*}, Almodóvar-Balletbò X.¹, Fusté N.P.^{1,2}, Pons G.³, Bertran E.^{1,2}, Fabregat I.^{1,2,3}

¹ TGF-β and Cancer Group. Oncobell Program. Bellvitge Biomedical Research Institute (IDIBELL), L'Hospitalet de Llobregat, Barcelona, Spain; ² Oncology Program, CIBEREHD, National Biomedical Research Institute on Liver and Gastrointestinal Diseases, Instituto de Salud Carlos III, Spain; ³ Department of Physiological Sciences. Faculty of Medicine and Health Sciences. University of Barcelona, Spain

Skin squamous cell carcinoma cells resistant to photodynamic therapy have a glycolytic phenotype and metformin treatment reverses it (ID_39)

Mascaraque-Checa M.¹, Santiago J.L.², González S.³, Gilaberte Y.⁴, Juarranz Á.¹

1) Universidad Autónoma de Madrid, Dept. Biology, Madrid, Spain and Instituto Ramón y Cajal de Investigaciones Sanitarias, IRYCIS, 28034 Madrid, Spain; 2) Hospital General Universitario de Ciudad Real, Dept. Dermatology, Ciudad Real, Spain; 3) Universidad de Alcalá, Dept. Medicine and Medical Specialties, Madrid, Spain; 4) Hospital Universitario Miguel Servet, Dept. Dermatology, Zaragoza, Spain.

Sting triggers NF-κB-dependent proinflammatory effects in renal tubular cells and kidney injured tissue (ID_26)

García Giménez J., Córdoba David G., Ortiz A., Ramos AM.

Nephrology and Hypertension Laboratory; Instituto de Investigación Sanitaria-Fundación Jiménez Díaz, Madrid, Spain.

***Tenofovir modulates Semaphorin 4D signaling and regulates bone homeostasis, which can be counteracted by dipyrindamole and adenosine A2A receptor (ID_13)**

Llamas-Granda P., Martín-Rodríguez L., Largo R., Herrero-Beaumont G., Mediero A.

Bone and Joint Research Unit. IIS-Fundación Jiménez Díaz UAM. Madrid 28040, Spain

***Tenofovir regulates myogenesis by inhibition of AMPK and modulation of purinergic receptors and dipyrindamole reverts the effect (ID_12)**

Marco-Bonilla M., Herencia R., Largo R., Herrero-Beaumont G., Mediero A.

Bone and Joint Research Unit. IIS-Fundación Jiménez Díaz UAM. Madrid 28040, Spain

The NADPH Oxidase NOX4 Inhibits c-Myc and Nrf2 Activation and Protects Cells from Oxidative Stress in Hepatocellular Carcinoma (ID_73)

^{1,2}Peñuelas-Haro, I., ¹Crosas-Molist, E., ³Zhang, S., ³Knaus, U.G., ^{1,2}Bertran, E., ^{1,2,4}Fabregat, I.

1) TGF-β and Cancer Group. Oncobell Program. IDIBELL, Barcelona, Spain; 2) Oncology Program, CIBEREHD, Instituto de Salud Carlos III, Barcelona, Spain; 3) Conway Institute, School of Medicine, University College Dublin, Dublin, Ireland. 4) Dept. de Ciències Fisiològiques II, Universitat de Barcelona, Barcelona, Spain.

Vitamin D-mediated inhibition of NF- κ B activity reduces activation of the NOX/ROS/AMPK/EP300 axis in colorectal cancer. New antitumor mechanism of vitamin D. (ID_109)

Navarro-Ramírez E¹, Román J.L.¹, Gutiérrez-Salmerón M¹, Ramírez-Sánchez A¹, Sánchez-De la Cruz A¹, Martín-Orozco RM¹, Chocarro-Calvo, A¹, Larriba MJ², Muñoz A², García-Martínez JM¹ García-Jiménez C¹

1Universidad Rey Juan Carlos, Alcorcón, Madrid. **2**Departamento de Biología del cáncer, Instituto de Investigaciones Biomédicas "Alberto Sols" CSIC-UAM, Madrid

***What is the pathogenic meaning of chondrocyte hypertrophy in osteoarthritis? Effect of Evc deletion through Hedgehog signaling (ID_21)**

Lamuedra A¹, Gratal P¹, Ruiz-Perez VL^{2,3}, Palencia-Campos A², Portal-Núñez S^{1,4}, Herrero-Beaumont G¹, Largo R¹

1Instituto de Investigación Sanitaria-Fundación Jiménez Díaz-UAM, Madrid, Madrid; **2**Instituto de Investigaciones Biomédicas 'Alberto Sols', CSIC-UAM, Madrid, Madrid; **3**Instituto de Genética Médica y Molecular (INGEMM), Hospital Universitario La Paz-UAM, Madrid, Madrid; **4**Applied Molecular Medicine Institute (IMMA), Universidad San Pablo-CEU, Alcorcón, Madrid

Wnt5a-JNK planar cell polarity-related signaling pathway regulates IL6 expression in mouse preadipocytes (ID_46)

Díaz-Chamorro, S.¹, Garrido-Jiménez, S.¹, Barrera-López, J.F.¹, Mateos-Quirós, C. M.¹, Lorenzo, M.J.², Román, A.C.¹, Bernardo, E.³, Sabio, G.³, Centeno, F.¹, and Carvajal-González, J.M.¹

1Department of Biochemistry, Molecular Biology and Genetics, Faculty of Sciences, University of Extremadura, Badajoz, Spain; **2**Department of Biochemistry, Molecular Biology and Genetics, Faculty of Veterinary Sciences, University of Extremadura, Cáceres, Spain; **3**Centro Nacional de Investigaciones Cardiovasculares (CNIC), 28029 Madrid, Spain

Symposium 6: "Metabolic homeostasis and disease"

Chairs:

Juan Llopis. Universidad de Castilla La Mancha (UCLM). Spain

Miguel R. Campanero. CBMSO. Madrid. Spain

*** A comparative evaluation of bioaccumulation and induction of oxidative stress by waterborne copper (Cu) and arsenic (As), as dissolved salts (DS) and nanoparticles (NP), in larvae of European seabass (*Dicentrarchus labrax*, L.) (ID_ 77)**

Canalejo Raya, A.^a; Granado-Castro, M.D.^b; Díaz de Alba, M.^b; Espada-Bellido, E.^b; Casanueva Marengo, M.J.^b; Galindo Riaño, M.D.^b; Torronteras, R.^a

a Department of Integrated Sciences/ Research Center RENSMA, University of Huelva. Huelva. **B** Department of Analytical Chemistry. Faculty of Science. University of Cádiz. Cádiz.

Browning of white adipose tissue modulates prostate cancer growth in vitro (ID_ 66)

Álvarez-Artme A.^{a,b}, García-Soler B.^{a,b}, Cernuda-Cernuda R.^a, Mayo JC.^{a,b,*} Sainz RM.^{a,b,*}

a. Department of Morphology and Cell Biology, Redox Biology Unit. University of Oviedo, Facultad de Medicina, Julian Clavería 6, 33006 Oviedo, Asturias. **b.** University Institute of Oncology of Asturias (IUOPA), Santiago Gascón building, Fernando Bongera s/n, 33006 Oviedo, Asturias.

*** Implication of CEMIP in the malignant progression of cutaneous melanoma (ID_ 11)**

Larrinaga M¹, Agüera-Lorente A¹, Boyano MD^{1,2}, Cancho-Galan G², Asumendi A^{1,2}, Apraiz A^{1,2}.

1Department of Cell Biology and Histology, Faculty of Medicine and Nursing, University of the Basque Country, Leioa, Vizcaya. **2**Biocruces-Bizkaia Health Research Institute, Barakaldo, Vizcaya

Influence of peritoneal fluid from women with endometriosis on the location of the SPAM1 protein in human sperm (ID_ 18)

Sáez-Espinosa, P.^{1,3}; Velasco, I.^{1,2,3}; López-Botella, A.^{1,3}; Robles-Gómez, L.¹; Acién, M.^{1,2,3}; Gómez-Torres, MJ¹

1Departamento de Biotecnología, Universidad de Alicante, Alicante, España; **2**Hospital Universitario San Juan de Alicante, Servicio de Ginecología y Obstetricia, San Juan de Alicante, España; **3**FISABIO – Hospital Universitario de San Juan de Alicante, San Juan de Alicante, España

Internalization of magnetic nanodisks in melanoma cells for cancer treatment (ID_ 59)

R. Zurbano,¹ C. Redondo,¹ J. Arlucea,² C. Penas,² M. D. Boyano,^{2,3} I. K.Schuller,⁴ and R. Morales.^{5,6}

1. Department of Physical-Chemistry, University of the Basque Country UPV/EHU, 48940 Leioa, Spain. **2.** Department of Cell Biology and Histology, University of the Basque Country UPV/EHU, 48940 Leioa, Spain. **3.** Biocruces Health Research Institute, 48903 Barakaldo, Spain. **4.** Center for Advanced Nanoscience and Department of Physics, University of California San Diego, La Jolla, California 92093, United States. **5.** Department of Physical-Chemistry & BCMaterials, University of the Basque Country UPV/EHU, 48940 Leioa, Spain. **6.** IKERBASQUE, Basque Foundation for Science, 48011 Bilbao, Spain.

Microglia activation and TNF- α production in the dentate gyrus of mice chronically exposed to natural air pollution. (ID_ 85)

Navarro-Sempere, A.¹; Martínez-Peinado, P.¹; Rodrigues, A.S.^{2,3}; García, P.V.^{2,4}; Camarinho, R.^{2,3}; García, M.^{1*}; Segovia, Y.^{1*}

¹ Department of Biotechnology, Faculty of Science, University of Alicante. Apartado 99, 03080 Alicante, Spain. ² Faculty of Sciences and Technology, University of the Azores, 9501-801, Ponta Delgada, Portugal. ³ IVAR, Research Institute for Volcanology and Risk Assessment, University of the Azores, 9501-801 Ponta Delgada, Portugal. ⁴ cE3c, Centre for Ecology, Evolution and Environmental Changes, and Azorean Biodiversity Group, University of the Azores, 9501-801 Ponta Delgada, Portugal

Morphometric analysis of the skin wound healing process on gilthead seabream (*Sparus aurata*) fed silk nanoparticles (ID_ 32)

Albaladejo-Riad, N.¹; Espinosa, C.¹; Carissimi, G.²; Díaz Baños F.G.²; Villora, G.²; & Esteban, M.A.¹

¹ Immunobiology for aquaculture group. Department of Cell Biology and Histology. Faculty of Biology, University of Murcia, 30100 Murcia; ² Department of Physical Chemistry, Faculty of Chemistry, University of Murcia, Murcia,

p73 regulates cell junction dynamics during vascular morphogenesis through the regulation of AMOT/YAP pathway (ID_ 71)

Maeso-Alonso, L.^{1,2}; Alonso Olivares, H.^{1,2}; Martínez-García, N.^{1,2}; Claesson-Welsh, L.³; Holmgren, L.⁴; Fernández-Corona, A.⁵; Marques, MM⁶ & Marin, MC^{1,2}.

¹ Institute of Biomedicine (IBIOMED), University of Leon, Leon, Spain; ² Dept. of Molecular Biology, University of Leon, Leon, Spain, ³ Dept. of Immunology, Genetics and Pathology, Rudbeck Laboratory, Uppsala University, Uppsala, Sweden; ⁴ Dept. of Oncology-Pathology, Karolinska Institutet, Stockholm, Sweden; ⁵ Servicio de Ginecología, Complejo Asistencial Universitario de León (CAULE), León, Spain; ⁶ Dept. of Animal Production, University of Leon, Leon, Spain.

Pan-Bcl2 inhibitor obatoclax synergizes with cisplatin to boost apoptosis and overcome resistance in triple negative breast cancer (ID_ 100)

López-Rosa R^{1*}; Tébar-García D^{1*}; Noblejas-López MM¹; Nuncia-Cantarero N¹; Nieto-Jiménez C¹; Burgos M¹ and Galán-Moya EM^{1,2}

¹ Translational Research Unit, Centro Regional de Investigaciones Biomédicas (CRIB), Castilla-La Mancha University (UCLM), and Albacete University Hospital, Albacete, Spain. ² Faculty of Nursing, UCLM, Albacete, Spain.

Podoplanin-CD44-MT1 role in the modulation of invadopodia-mediated extracellular matrix degradation and invasiveness of squamous carcinoma (ID_ 33)

Montero-Montero L.^{1,3}; Parsons M²; Beltrán S³; Grueso E³; Jarcovski R³; Renart J¹; Quintanilla M¹ and Martín-Villar E^{1,3}.

¹ Instituto de Investigaciones Biomédicas Alberto Sols, CSIC-UAM, Madrid, Spain. ² Randall Division of Cell & Molecular Biophysics, King's College London, London, UK. ³ Departamento de Biotecnología, Universidad Francisco de Vitoria, Madrid, Spain.

Role of TGF β 1 in combination with N-acetyl cysteine in the response of squamous cell carcinoma to photodynamic therapy (ID_ 28)

Gallego-Rentero, M.^(1,2); Gutiérrez-Perez, M.⁽¹⁾; Portillo-Esnaola, M.^(1,2); Najera, L.⁽³⁾; Carrasco, E.^(1,2); Juarranz, A.^(1,2)

¹: Universidad Autónoma de Madrid, Spain; ²: Instituto Ramón y Cajal de Investigación Sanitaria, IRYCIS, Madrid, Spain; ³: Hospital Universitario Puerta de Hierro, Majadahonda, Spain



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Stabilization of AMOT levels by the tankyrase inhibitor XAV939 restores the defective endothelial junction phenotype and YAP localization induced by TP73 knockdown (ID_ 51)

Alonso-Olivares H.^{1,2}, Maeso-Alonso L.^{1,2}, Villoch-Fernandez J.^{1,2}, Claesson-Welsh L.³, Fernández-Corona A.⁴ Marques M.M.⁵ & Marin M.C.^{1,2}

¹ Instituto de Biomedicina (IBIOMED), Universidad de León, Campus de Vegazana s/n, 24071, León, España; ² Departamento de Biología Molecular, Universidad de León, Campus de Vegazana s/n, 24071, León, España; ³ Department of Immunology, Genetics and Pathology, Rudbeck Laboratory, Uppsala University, 752 36, Uppsala, Sweden; ⁴ Servicio de Ginecología, Complejo Asistencial Universitario de León (CAULE), C/ Altos de Nava s/n, 24071, León, España; ⁵ Departamento de Producción Animal, Universidad de León, Campus de Vegazana s/n, 24071, León, España.

*TSQ fluorochrome incubation increase autometallographic zinc detection in primary cell cultures of astrocytes (ID_ 4)

Ballestín, R.; Torres, J.; Ponsoda, X

Cellular Neurobiology Research Unit, Cell Biology Department, Universitat de València, Doctor Moliner, 50, 46100 Burjassot, València, Spain

β -catenin signaling mediates adipose tissue induced phenotype-switch in melanoma (ID_ 81)

Ramírez-Sánchez A.¹, Sánchez-De la Cruz A.¹, Gutiérrez-Salmerón M.¹, García-Martínez JM.¹, Fiuza C.², De la Vieja A.³, García-Jiménez C.¹, Chocarro-Calvo A.¹.

¹Universidad Rey Juan Carlos, Alcorcón, Madrid. ²Fundación Hospital Alcorcón, Alcorcón, Madrid. ³UFIEC, Instituto de Salud Carlos III, Majadahonda, Madrid

Symposium 7: "Immunology"

Chairs:

Alberto Álvarez-Barrientos. Universidad de Extremadura. Spain

José Carlos Segovia. Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT). Centro de Investigación Biomédica en Red de Enfermedades Raras (CIBERER)

Actin organization in corneal endothelial cells plays a key role in the structure and function of the layer. (ID_56)

Cerro-Tello, G; Benito-Martínez, S; Cacho-Navas, C; Barroso, S; de Rivas-Hidalgo, G; Millán, J

Centro de Biología Molecular Severo Ochoa-CSIC, UAM, Madrid, Madrid, Spain.

Activation of the endogenous RhoA GTPase subfamily preserves endothelial barrier function in vitro and during local and systemic inflammation in vivo (ID_27)

Colás-Algora, Natalia; Caballero, Alvaro; Cacho-Navas, Cristina; González-Fernández, Martín; Barroso, Susana; de Rivas-Hidalgo, Gema; Millán, Jaime

Centro de Biología Molecular Severo Ochoa-CSIC, Universidad Autónoma de Madrid, Spain.

Activation-induced expression of non-muscle myosin IIB shapes lymphocyte polarity and the immune synapse and T cell activation (ID_23)

Millán-Salanova M¹, Llorente-González C¹, Blas-Rus N², C. Talayero C¹, N. Navarro M³, Vicente-Manzanares M¹.

¹Centro de Investigación del Cáncer - Instituto de Biología Molecular y Celular del Cáncer, CSIC, Salamanca.² Universidad Autónoma de Madrid, School of Medicine, Madrid. ³Centro de Biología Molecular Severo Ochoa, Campus UAM, Madrid.

*** AhR deficiency improves the cytokine network in the "priming phase" of the regeneration (ID_82)**

Rejano-Gordillo C.M. & Fernández-Salguero P.M.

1Departamento de Bioquímica y Biología Molecular, Facultad de Ciencias, Universidad de Extremadura, Badajoz, Spain; 2Instituto Universitario de Investigación Biosanitaria de Extremadura (INUBE), Badajoz, Spain.

Development of a cell model system to study food allergen-induced immune response (ID_53)

Parrón-Ballesteros, J., García-Gordo, R., Olmo, N., Villalba, M., Turnay, J.

Dpto. Bioquímica y Biología Molecular, Facultad de Ciencias Químicas, Universidad Complutense, Madrid

Effect of Sin a 1, the major allergen from mustard seeds, on a model system of intestinal epithelium (ID_64)

García-Gordo, R., Parrón-Ballesteros, J., Olmo, N., Villalba, M., Turnay, J.

Dpto. Bioquímica y Biología Molecular, Facultad de Ciencias Químicas, Universidad Complutense, Madrid

*** Erythrocyte membrane proteins involved in host-parasite interaction in Plasmodium falciparum infection (ID_103)**

Castro Salgado C, Reyes Hernández M, Moneriz Pretell C

Bioquímica y Enfermedad investigation group. University of Cartagena. Cartagena-Colombia



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Phenotype-genotype correlation of disease-inducing MYH9 variants at a cellular and single-molecule level (ID_22)

Llorente-González C¹, Millán-Salanova M¹, Heissler, S.M.², Vicente-Manzanares M¹

¹ Centro de Investigación del Cáncer-Instituto de Biología Molecular y Celular del Cáncer, CSIC, Salamanca. ² The Ohio State University, Columbus, OH, USA.

Plasmolipin regulates basolateral-to-apical transcytosis of ICAM-1 and leukocyte adhesion in polarized hepatic epithelial cells (ID_52)

Cacho-Navas, C; López Pujante, C; Barroso, S; de Rivas-Hidalgo, G; Colás Algara N; Millán, J

Centro de Biología Molecular Severo Ochoa-CSIC, Universidad Autónoma de Madrid, Spain

SOD3 inhibits LAMA5 expression in endothelial cells by interfering with the NF-κB pathway signaling (ID_6)

Mira E.¹, Martinez-Rey D.¹, Carmona-Rodríguez L.² and Mañes S.¹

¹Department of Immunology and Oncology and ²Proteomics Unit, Centro Nacional de Biotecnología/CSIC, Madrid.

Symposium 8: “Aging, Senescence, Autophagy and Death”

Chairs:

Rosa M. Sainz. Instituto de Oncología de Asturias (IUOPA). Universidad de Oviedo. Oviedo. Spain

Patricia Boya. CIB. CSIC. Madrid. Spain

Ambra1 haploinsufficiency results in metabolic alterations and exacerbates age-associated retinal degeneration (ID_8)

Ramírez-Pardo I, Villarejo-Zori B, Jiménez-Loygorri JI, Sierra-Filardi E, Gómez-Sintes R* and Boya P

Department of Cellular and Molecular Biology, Centro de Investigaciones Biológicas Margarita Salas-CSIC, Madrid, Madrid, Spain.

AMBRA1 sustains retinal pigment epithelium homeostasis upon aging (ID_17)

Jiménez-Loygorri JI, Ramírez-Pardo I, Villarejo-Zori B, Sierra-Filardi E, Gómez-Sintes R and Boya P

Department of Cellular and Molecular Biology, Centro de Investigaciones Biológicas Margarita Salas-CSIC, Madrid, Madrid, Spain

An aqueous extract from Polypodium leucotomos, Fernblock®, inhibits the formation of dark cyclobutane pyrimidine dimers in melanocytes exposed to UVA radiation (ID_15)

Portillo-Esnaola M^{1,2}, Rodríguez-Luna A³, Terrén Gómez S¹, Gallego-Rentero M^{1,2}, González-Rodríguez S⁴, Juarranz A^{1,2}.

1. Department of Biology, Faculty of Sciences, Autónoma University of Madrid (UAM); 2. Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), 28049 Madrid, Spain; 3. Innovation and Development, Cantabria Labs, 28043 Madrid, Spain; 4. Department of Medicine and Medical Specialties, Alcalá de Henares University, 28805 Madrid, Spain

Cell corpse removal is dependent autophagy during retinal neurogenesis (ID_31)

Villarejo-Zori, B., Zapata-Muñoz, J., Esteban-Martínez, L., Sierra-Filardi, E. and Boya, P.

Centro de Investigaciones Biológicas Margarita Salas (CIB-CSIC), Madrid, Spain

*** In vivo and in vitro cardiac aging: developing of cellular aging models (ID_101)**

García-Mendivil L^{1,2}, Hernández-Bellido N^{1,2}, Sánchez-Barat M^{1,2}, Pérez-Zabalza M^{1,2}, Garrido-Huésca E^{1,2}, Oliveros JC³, Torres-Pérez R³, Ramos-Marquès M^{1,2}, Pueyo E^{1,2,4}, Ordovás L^{1,2,5}

¹Biomedical Signal Interpretation and Computational Simulation group (BSICoS), Aragón Institute of Engineering Research, University of Zaragoza, Zaragoza; ²BSICoS, IIS Aragón, Zaragoza; ³Bioinformatics for Genomics and Proteomics, National Center of Biotechnology-Spanish National Research Council, Madrid; ⁴Biomedical Research Networking Center in Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Zaragoza; ⁵ARAID Foundation, Zaragoza

Interaction between CYB5R3 overexpression and nicotinamide riboside supplementation on markers of autophagic signaling and mitochondrial function in mouse skeletal muscle: Sexual dimorphism (ID_72)

Sánchez-Mendoza L.M.¹, Pérez-Sánchez C.^{1,3}, Rodríguez-López S.¹, Burón M.I.¹, González-Reyes, J.A.¹, Moreno JA.^{1,3}, López-Pedraza C.³, de Cabo R.², Villalba J.M.¹

¹Department of Cell Biology, Physiology and Immunology, Faculty of Sciences, University of Córdoba, Agrifood Campus of International Excellence (ceiA3), Córdoba, Spain. ²Translational Gerontology Branch, National Institute on Aging, National Institutes of Health, Baltimore, MD, USA. ³Maimonides Institute for Research in Biomedicine of Cordoba (IMIBIC), University of Cordoba, Córdoba, Spain.



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Sexual dimorphism in anti-aging interventions with NAD⁺ boosters and CYB5R3 overexpression. Effects on autophagy and mitochondria population in kidney (ID_55)

Pérez Rodríguez, M.; Sánchez Mendoza, L.M.; Burón Romero, M.I.; González Reyes, J.A., Villalba Montoro, J.M.

Department of Cell Biology, Physiology and Immunology, Rabanales Campus, University of Cordoba, Cordoba.

Small extracellular vesicles from young fibroblasts improve the antioxidant response and senescence in neurons and old mice brains (ID_35)

M. Posada-Gracia¹, J. Alarcón-Gil¹, J. Pascual-Guerra¹, M.C. Nogales-Valenciano¹, M. J. Ruiz de León¹, J. Fafian-Labora², A. O'Loghlen², J.A. Rodríguez-Navarro^{1,3}

¹ Instituto Ramón y Cajal de Investigación Sanitaria, Madrid, Spain; ² Queen Mary University of London, Epigenetics & Cellular Senescence Group, Blizard Institute, Barts and the London School of Medicine and Dentistry, London, United Kingdom; ³ Universidad Complutense de Madrid (UCM), departamento de Biología Celular

THE PROHIBITIN-BINDING COMPOUND FLUORIZOLINE ACTIVATES p38 AND JNK (ID_48)

Ismael Sánchez-Vera¹, José Saura-Esteller¹, Sonia Núñez-Vázquez¹, Ana M. Cosialls¹, Rodolfo Lavilla², Gabriel Pons¹, Daniel Iglesias-Serret^{1,3*}, Joan Gil^{1*}

¹ Departament de Ciències Fisiològiques, Facultat de Medicina i Ciències de la Salut, Universitat de Barcelona-IDIBELL (Institut d'Investigació Biomèdica de Bellvitge), L'Hospitalet de Llobregat, Barcelona, Spain. ² Laboratory of Medical Chemistry, Faculty of Pharmacy and Food Sciences and Institute of Medicine (IBUB), University of Barcelona, Barcelona, Spain. ³ Facultat de Medicina. Universitat de Vic-Universitat Central de Catalunya (UVic-UCC), Vic, Barcelona, Spain.

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Symposium 9: "Neuron and Glia Biology"

Chairs:

Teresa Iglesias. IIB-CSIC UAM. Madrid. Spain

Mario Durán. University of Castilla-La Mancha. Ciudad Real. Spain

* **Changes of Satb2 in the cerebral cortex of Syrian hamster during hibernation (ID_99)**

Carballeira P., López Jesús M., Muñoz Alberto

Department of Cell Biology. Faculty of Biology of the Complutense University of Madrid.

Proteomic and transcriptomic analyses of the WIP-YAP/TAZ pathway in solid versus hematological tumors (ID_107)

Orantes A.^{1,2,3}, Rivas S.^{1,2,3}, Gómez C.^{2,3}, Wandosell F.^{1,3} and Antón I.M.^{2,3}

1 CBMSO, Madrid; 2 CNB, Madrid; 3 CIBERNED, Madrid

Study of the physiological role of the scaffold protein SHOC2/Sur8 in the development of vertebrates and its implication in neurodegeneration (ID_84)

V. M. Cordero¹, P. Palau¹, D. Peña-Jiménez¹, M. P de Lucas², B. Anta², J. L. Oliva², A. Banzo¹, M. I. García-González¹, D. Sardón³, M. R. Baquero-Artigao¹, J. M. Rojas² and M. Yunta¹

¹Unidad de Investigación Biomédica, Universidad Alfonso X El Sabio, Villanueva de La Cañada, Madrid; ²Unidad de Biología Celular, Unidad Funcional de Investigación en Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III, Majadahonda, Madrid; ³Unidad de Senescencia Celular, Unidad Funcional de Investigación en Enfermedades Crónicas (UFIEC), Instituto de Salud Carlos III, Majadahonda, Madrid; ⁴Unidad de Anatomía Patológica, Hospital Clínico Veterinario, Universidad Alfonso X El Sabio, Villanueva de La Cañada, Madrid.

* **Study of the sexual dimorphism in the pattern of cell death in brains of newborn piglets exposed to hypoxia-ischemia (ID_91)**

Chillida, M¹; Robertson, NJ² & Alonso-Alconada, D^{1,2}

¹Department of Cell Biology and Histology, School of Medicine and Nursing, University of the Basque Country (UPV/EHU), Leioa, Bizkaia, Spain; ²Institute for Women's Health, University College London, London, UK

Synaptic activity enhances mitochondrial bioenergetics by increasing iron metabolism in cortical neurons (ID_60)

Tena-Morrajá P.^(1,2), Reina-Del pozo M.⁽¹⁾ Martínez-Estrada O.^(1,3) Soriano-Zaragoza F.X.^(1,2)

1- CELLTEC-UB, Department of Cell Biology, Physiology and Immunology, Faculty of Biology, University of Barcelona, Barcelona, Spain; 2- Institute of Neurosciences, University of Barcelona, Barcelona, Spain. 3- Institute of Biomedicine, University of Barcelona, Barcelona, Spain.

Synaptic activity enhances mitochondrial bioenergetics in neurons independently of mitochondrial mass changes (ID_70)

Riqué-Pujol G.^{1,2}, Martínez-Estrada O.M.^{1,3}, Reina M.¹, Soriano F.X.^{1,2}

¹Celltec UB, Department of Cell Biology, Physiology and Immunology, University of Barcelona. ²Institute of Neurosciences, University of Barcelona. ³Institute of Biomedicine, University of Barcelona

* **URB447-induced neuroprotection targets caspase-3 activation and apoptosis after neonatal ischemic brain injury (ID_92)**

Alonso-Alconada, D¹; Carloni, S²; Moro, M¹; Crinelli, R²; Duranti, A² & Balduini, W²

¹ Department of Cell Biology and Histology, School of Medicine and Nursing, University of the Basque Country (UPV/EHU), Leioa, Bizkaia, Spain ; ² Department of Biomolecular Sciences, University of Urbino Carlo Bo, Urbino, Italy