

Symposium 1: "Therapeutical approaches for cancer stem cells"

Chairmen:

Xosé Bustelo. Salamanca Cancer Research Center (CSIC-University of Salamanca) and CIBERONC, Salamanca.

Alberto Muñoz. Instituto de Investigaciones Biomédicas "Alberto Sols", CSIC-UAM, and CIBERONC, Madrid.

Altered nucleogenesis and nucleolar functions in hippocampal neurons from the Ts65Dn mouse model of Down syndrome (ID_46)

A. Puente-Bedia¹, M. Lafarga², M.T. Berciano², O. Narcís^{2,3}, O. Tapia², C. Martínez-Cué¹, N. Rueda¹

1 Department of Physiology and Pharmacology, Faculty of Medicine, University of Cantabria, Santander; *2* Department of Anatomy and Cell Biology, Faculty of Medicine, University of Cantabria, Santander; *3* Department of Psychiatry, Icahn School of Medicine at Mount Sinai, New York

Characterization of a new natural compound as chemotherapeutic agent against Glioblastoma Stem Cells (ID_19)

Villoch-Fernández, J.¹, Martín-López, M.^{1,2}, Sánchez, J.M.², Maeso-Alonso, L.¹, Fernández, A.², Marques, M.M.³ & Marin, M.C.¹

1 Instituto de Biomedicina (IBIOMED), Universidad de León, León, Spain; *2* Biomar Microbial Technologies, León, Spain; *3* Instituto de Desarrollo Ganadero y Sanidad Animal, Universidad de León, León, Spain

Evaluation of tumor stemness inhibition as a strategy to revert chemotherapy resistance in breast tumors (ID_63)

Tebar-García D¹, Noblejas-López MM^{1,2}, Nuncia-Cantarero M¹, Nieto-Jiménez C^{1,2}, Burgos M², Ocaña A^{1,2,3}, Galan-Moya EM¹

*1*Translational Oncology Laboratory, Centro Regional de Investigaciones Biomédicas (CRIB), Universidad de Castilla La Mancha, Albacete, Spain. *2*Translational Research Unit, CIBERONC and University Hospital, Albacete, Spain. *3*Experimental Therapeutics Unit, Medical Oncology Department. Hospital Clínico San Carlos and IDISSC, Madrid, Spain.

HLA-A and HLA-B expression recognizes activated breast tumors with favorable outcome (ID_ 8)

Noblejas-López MDM¹, Nieto-Jiménez C¹, Morcillo García S¹, Pérez-Peña J¹, Nuncia-Cantarero M¹, Galán-Moya EM¹, Amir E², Pandiella A³, Györfy B⁴ and Ocana A^{1,5}

1 Translational Oncology Laboratory, Centro Regional de Investigaciones Biomedicas, Castilla-La Mancha University (CRIB-UCLM), Albacete, Castilla-La Mancha, Spain; *2* Division of Medical Oncology and Hematology, Princess Margaret Cancer Centre, University of Toronto, Toronto, Canada; *3* Instituto de Biología Molecular y Celular del Cáncer and CIBERONC. CSIC Salamanca, Castilla y León, Spain; *4* Semmelweis University 2nd Department of Pediatrics, Budapest, Hungary and MTA TTK Lendület Cancer Biomarker Research Group, Institute of Enzymology, Budapest, Hungary; *5* Hospital Clínico Universitario San Carlos, IDISSC and CIBERONC, Madrid, Spain.

Inhibition of mitochondrial dynamics preferentially targets pancreatic cancer cells with enhanced tumorigenic and invasive potential (ID_ 32)

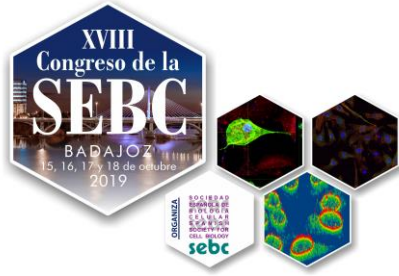
De Luxán-Delgado B.¹, Penin-Peyta L.¹, Royo-García A.², Parejo-Alonso B.², Jagust P.¹, Heeschen C.¹ and Sancho P.^{1,2}

*1*Centre for Stem Cells in Cancer & Ageing (Barts Cancer Institute), London, UK; *2*Instituto de Investigación Sanitaria de Aragón (IIS Aragón), Zaragoza, Spain

Sub-cytotoxic concentrations of a new Pd(II)-based compound in combination with melatonin promote apoptosis of human promyelocytic leukaemia HL-60 cells (ID_ 78)

Elena Fernández¹, Samuel Estirado¹, Emilio Viñuelas-Zahinos², Francisco Luna-Giles², Ana Beatriz Rodríguez¹, Javier Espino¹, José A. Pariente¹

*1*Department of Physiology (Neuroimmunophysiology and Chrononutrition Research Group) and *2*Department of Organic and Inorganic Chemistry (Chemistry of Coordination Group), Faculty of Science, University of Extremadura, Badajoz, Spain.



Symposium 2: "Cell-microenvironment interactions"

Chairs:

Joaquín Teixidó. Centro de Investigaciones Biológicas (CIB)

Francisco Sánchez Madrid. Hospital Universitario La Princesa, Madrid

Effect of $\beta 2$ adrenergic stimulation on the inflammatory profile of peritoneal macrophages in obese mice (ID_30)

¹Martín-Cordero L., ¹Gálvez I., ¹Hinchado MD., ²Álvarez-Barrientos A., ¹Ortega E.

¹ Instituto Universitario de Investigación Biosanitaria de Extremadura (INUBE), Grupo de Investigación en Inmunofisiología. Universidad de Extremadura, Badajoz, Spain; ² Servicio de Técnicas Aplicadas a la Biociencia (STAB), Universidad de Extremadura, Badajoz, Spain.

Effects of melatonin on the bull sperm capacitation (ID_42)

Fernández-Alegre, E.^{1,4}, Álvarez-Fernández, I.¹, Gallego-Clemente, E.¹, Núñez-González, A.^{1,4}, Martín-Fernández, B.^{1,4}, Domínguez, J.C.^{1,2} and Martínez-Pastor, F.^{1,3}

1 INDEGSAL, Universidad de León, 24071 León, Spain.; **2** Medicine, Surgery and Veterinary Anatomy, Universidad de León, 24071 León, Spain. ; **3** Molecular Biology (Cell Biology), Universidad de León, 24071 León, Spain; **4** Bianor Biotech, 24071 León, Spain.

Field Emission Scanning Electron Microscopy (FE-SEM) allows the specific location of SED1 in human spermatozoa surface (ID_15)

Robles-Gómez¹, L; De Madaria, JM¹; Sáez-Espinosa, P¹; Huerta-Retamal, N¹; Avilés, M²; Romero, A¹; Gómez-Torres, MJ^{1,3}

¹ Departamento de Biotecnología, Universidad de Alicante, Alicante, España; ² Departamento de Biología Celular e Histología, Universidad de Murcia e IMIB-Arrixaca, Murcia, España; ³ Cátedra Human Fertility, Universidad de Alicante, Alicante, España.

High quality spermatozoa are recovered after four-hour in vitro capacitation (ID_60)

Sáez-Espinosa P^{1,2}; Robles-Gómez L¹; Huerta-Retamal N¹; Avilés M³; Aizpurua J⁴; Romero A¹; Gómez-Torres MJ^{1,5}.

1 Departamento de Biotecnología, Universidad de Alicante, Alicante, Spain; **2** FISABIO - Hospital Universitario San Juan de Alicante, Servicio de Ginecología y Obstetricia, San Juan de Alicante, Spain; **3** Departamento de Biología Celular e Histología, Universidad de Murcia e IMIB-Arrixaca, Murcia, Spain; **4** VF Spain, Medicina Reproductiva, Alicante, Spain; **5** Cátedra Human Fertility, Universidad de Alicante, Alicante, Spain.

Looking for a sanctuary for leukaemia cells in Central Nervous System: Role of choroid plexus stroma in tumour chemoresistance (ID_69)

Vicente A¹, Fernández-Sevilla LM¹, Valencia J¹, Flores, MA², Fraile-Ramos, A¹, Jiménez E¹, Sacedón R¹, Ramírez M³, Varas A¹

1 Cell Biology, Complutense University of Madrid, School of Medicine, Madrid, Spain; **2** School of Chemistry, Autonomous University of Chihuahua, Chihuahua, Mexico; **3** Pediatric Hematology & Oncology, Hospital Universitario Niño Jesús, Madrid, Spain

Morphological and functional studies of leukemia-leptomeningeal cell interactions (ID_74)

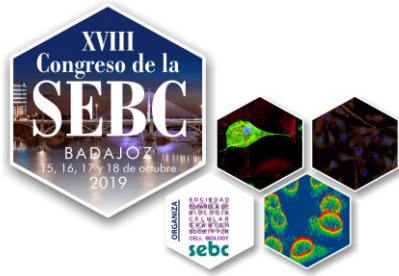
Vicente A, Ortiz P, Fernández-Sevilla LM, Fraile-Ramos A

Sección departamental de Biología Celular, Facultad de Medicina, Universidad Complutense de Madrid

Ocoxin oral solution impairs tumor cell-fibroblast crosstalk mediated protumoral effects and chemoresistance in melanoma (ID_40)

Benedicto A¹, Herrero A¹, Sanz E², Márquez J¹.

¹ University of the Basque Country, Bizkaia, Spain; ² Catalysis SL, Madrid



Role of androgens in the adipose tissue differentiation in the prostate cancer microenvironment (ID_26)

Álvarez-Artime A.^{a,b}, Artime-Naveda F.^{a,b}, Sainz RM.^{a,b}, * Mayo JC^{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.

The SFK signaling pathway mediates the communication of cancer cells and their surrounding microenvironment in triple negative breast cancer (ID_61)

Nuncia-Cantarero M.¹, Nieto-Jimenez C.², Burgos-Lozano M.², Montero JC.³, Pandiella A.³, Ocana A.^{1,3,4} and Galan-Moya EM.¹

1 Translational Oncology Laboratory, Regional Center for Biomedical Research (CRIB), University of Castilla-La Mancha, Albacete, Spain; **2** Translational Research Unit, University Hospital, Albacete, Spain.; **3** Cancer Research Center, CSIC-IBSAL and CIBERONC, Salamanca, Spain; **4** Hospital Clínico Universitario San Carlos and Instituto de Investigación Sanitaria San Carlos (IdISSC), Madrid, Spain.

Tumour microenvironment directed β -catenin signaling in melanoma (ID_11)

Ramírez-Sánchez A.¹, Gutiérrez-Salmerón M.¹, García-Martínez JM.¹, Lucena SR.¹, Román J.L.¹, Martín-Orozco RM.¹, Fiuza C.², Goding CR.³, García-Jiménez C.¹, Chocarro-Calvo, A.¹

¹Universidad Rey Juan Carlos, Alcorcón, Madrid; ²Fundación Hospital Alcorcón, Alcorcón, Madrid; ³Ludwig Institute for Cancer Research, Oxford, UK.

Oxidative stress and histopathological alterations are early biomarkers of Pb-induced damage in Gilt-head Bream (*Sparus aurata*, L.) (ID_77)

Rafael Torronteras^a, Milagrosa Oliva Ramírez^b, M. Díaz de Alba^c, M.D. Granado-Castro^c, E. Espada-Bellido^c, M^a Dolores Galindo Riaño^c, Antonio Canalejo Raya^a

a Department of Integrated Sciences/ Research Center RENSMA, University of Huelva. Spain; **b** Department of Biology. Faculty of Sea and Environmental Sciences. University of Cádiz. Spain. **c**Department of Analytical Chemistry. Faculty of Science. University of Cádiz. Spain.

Symposium 3: "Plant cell Biology"

Chairs:

Pilar S. Testillano. Centro de Investigaciones Biológicas (CIB)

Nuria Sánchez-Coll. Centro de Investigación en Genómica agrícola (CRAG). Barcelona

Improving plant cell reprogramming and somatic embryogenesis yield with small molecule epigenetic modulators for regeneration and breeding of cork oak (ID_68)

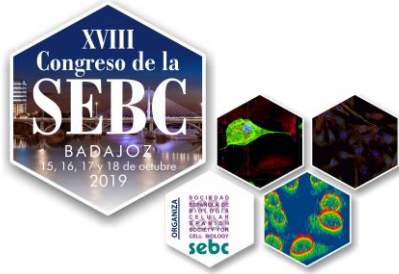
Carneros E, Díaz-Luzza EM, Pérez-Pérez E, Bárány I, Risueño MC, Testillano PS

Biological Research Center, CIB-CSIC, Madrid, Spain.

Self-incompatibility induced programmed cell death in field poppy and Arabidopsis (ID_18)

Triviño MM^{1,2,3}, Lin Z^{2,3}, Nowack MK^{2,3}, Franklin-Tong VE⁴ and Bosch M¹.

1 Institute of Biological, Environmental and Rural Sciences (IBERS), Aberystwyth University, Plas Gogerddan, Aberystwyth, SY23 3EE, UK; **2** Department of Plant Biotechnology and Genetics, Ghent University, 9052 Ghent, Belgium; **3** VIB Center for Plant Systems Biology, 9052 Ghent, Belgium; **4** School of Biosciences, College of Life and Environmental Sciences, University of Birmingham, Edgbaston, Birmingham, B15 2TT, UK



Symposium 4: "Cellular trafficking and signal transduction"

Chairs:

Isabel Fabregat. Bellvitge Biomedical Research Institute (IDIBELL). Barcelona.

Francisco Javier Martín-Romero. Instituto de Biomarcadores de Patologías Moleculares. Universidad de Extremadura (UEX)

Cross-talk between the NADPH Oxidase 4 (NOX4) and Cyclin D1 in hepatocellular carcinoma (ID_33)

^{1,2*}Fusté, N.P., ^{1,2}Bonilla-Amadeo, R., ³Pons, G. and ^{1,2,3}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** Dept. de Ciències Fisiològiques II, Universitat de Barcelona, Barcelona, Spain.

Dissecting the role of the NADPH oxidase NOX4 during liver regeneration (ID_4)

^{1,2}Herranz-Iturbide, M., ^{1,2}López-Luque, J., ^{1,2}Caballero-Díaz, D., ¹Crosas-Molist, E., ³Jaquet, V., ⁴Jiang, X., ^{3,5}Krause, K.H., ⁴Török, N.J., ^{1,2,6}Fabregat, I.

1. TGF- β and Cancer Group. Oncobell Program, IDIBELL, Barcelona, Spain. **2.** Oncology Program, CIBEREHD, Instituto de Salud Carlos III, Spain. **3.** Centre Médical Universitaire, University of Geneva, Switzerland. **4.** Gastroenterology and Hepatology, Stanford University, Palo Alto, CA, US. **5.** Department of Genetic and Laboratory Medicine, Geneva University Hospitals, Geneva, Switzerland. **6.** Dept. de Ciències Fisiològiques II, Universitat de Barcelona, Barcelona, Spain.

Epidermal Shoc2 contributes to skin homeostasis (ID_43)

Anta B¹, De Lucas MP¹, López-Alonso V³, Peña-Jiménez D¹, Zarich N¹, Mantecon R¹, Ortega-Rodríguez J¹, Dura LM¹, Castro J¹, Camara AB¹, Lopez-Briones T¹, Oliva JL¹, Parejo NF², Lorenzo-Martin LF², Bustelo XR² & Rojas-Cabañeros, JM¹.

¹Unidad de Biología Celular. UFIEC-Instituto de Salud Carlos III, Majadahonda, Madrid, Spain; ²Centro de Investigación del Cáncer, CSIC-Universidad de Salamanca, Salamanca, Spain; ³Unidad de Biología Computacional. UFIEC- Instituto de Salud Carlos III, Majadahonda, Madrid, Spain.

Focal adhesion remodeling during cell migration stimulated by amniotic membrane (ID_71)

Bernabé-García A¹, Liarte S¹, Rodríguez-Valiente M¹, Moraleda JM², Castellanos G³ and Nicolás FJ^{1*}

1 Laboratorio de Regeneración, Oncología Molecular y TGF β , IMIB-Arrixaca, El Palmar, Murcia, Spain; **2** Unidad de Trasplante y Terapia Celular. Hospital Clínico Universitario Virgen de la Arrixaca, Murcia, Spain; **3** Servicio de Cirugía, Hospital Clínico Universitario Virgen de la Arrixaca, El Palmar, Murcia, Spain.

ImageJ macro for analysis of muscular contractions in zebrafish embryos (ID_27)

Llopis J, Vicente Ruiz M, Salgado-Almario J, Domingo B and Soriano Felipe J.

Centro Regional de Investigaciones Biomédicas (CRIB) y Facultad de Medicina, Universidad de Castilla-la Mancha (UCLM), Albacete.

Mitochondrial influence on skeletal muscle Ca²⁺ signals seen in zebrafish embryos in vivo (ID_7)

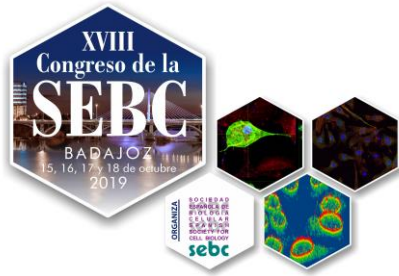
Vicente Ruiz M., Salgado-Almario J.; Soriano J.; Domingo, B. and Llopis, J.

Centro Regional de Investigaciones Biomédicas (CRIB) and Facultad de Medicina de Albacete, Universidad de Castilla-La Mancha, Albacete.

Modulation of transforming growth factor- β signaling is essential for the stimulation of cell migration by amniotic membrane (ID_72)

Bernabé-García, A¹, Liarte, S¹, Ruiz-Cañada, C¹, Moraleda, JM², Castellanos, G³ and Nicolás FJ^{1,*}

¹Laboratorio de Regeneración, Oncología Molecular y TGF β . IMIB-Arrixaca, El Palmar, Murcia, Spain; ²Unidad de Trasplante y Terapia Celular. Hospital Clínico Universitario Virgen de la Arrixaca, Murcia, Spain; ³Servicio de Cirugía, Hospital Universitario Virgen de la Arrixaca, El Palmar, Murcia, Spain.



Oleanolic acid potentiates migration in Mv1Lu and MDA-MB 231 epithelial cell lines by promoting EGF receptor and MAP kinases activation (ID_10)

Stelling-Férez J¹⁻², Bernabé-García A¹, Liarte S¹, Gabaldón JA², Núñez-Delicado E², Nicolás FJ¹.

1 Laboratorio de Oncología Molecular y TGF- β , Instituto Murciano de Investigaciones Biosanitarias- Arrixaca (IMIB), El Palmar, Murcia, España; 2 Departamento de Nutrición y Tecnología de los Alimentos, Universidad Católica de Murcia (UCAM), Guadalupe, Murcia, España

p73 regulates core-PCP proteins localization by modulating actin and microtubule cytoskeleton dynamics (ID_17)

Laura Maeso-Alonso¹, Sandra Fuertes-Álvarez¹, Javier Villoch-Fernández¹, Marta Martín-López^{1,2}, Inmaculada Díez-Prieto³, Margarita M. Marques⁴ & Maria C Marin¹.

1 Instituto de Biomedicina (IBIOMED), Universidad de León León, España; 2 Biomar Microbial Technologies, León, España; 3 Departamento de Medicina Veterinaria, Cirugía y Anatomía, Universidad de León, León, España; 4 Dept. de Producción Animal, Universidad de León, León, España.

Physiological Characterization of a Sur8/SHOC2 Mouse Model (ID_65)

Fermín-Sánchez L¹, Peña-Jiménez D¹, Oliva JL², Anta B², López-Alonso V², de Lucas MP², Martínez-Rodríguez S¹, Sardón D¹, Fernández-Aceñero MJ³, Cámara AB², Zarich N², Rojas-Cabañeros JM² and Yunta M¹

1. Universidad Alfonso X El Sabio, Villanueva de La Cañada, Madrid; 2. Unidad Funcional de Investigación en Enfermedades Crónicas, Majadahonda, Madrid; 3. Hospital Clínico San Carlos, Madrid.

Protein Convertase Subtilisin/Kexin type 9 (PCSK9) in colon cancer cells (ID_57)

Casado Andres .M^{1,2}, Garcia Gallastegui.P¹, Etxebeste Agudo .E¹, Crende Arruabarrena.O¹, Badiola Etxaburu .I¹

¹Departament of cell biology and histology, Faculty of Medicine and Nursing. Leioa/ Biscay. Spain; ²Université de Bordeaux, INSERM .Bordeaux /Nouvelle aquitaine. France.

RAC1 controls ORAI1 translocation and externalization at the leading edge to potentiate cell migration (ID_59)

Espinosa-Bermejo N¹, Lopez-Guerrero AM¹, Sanchez-Lopez I¹, Pascual-Caro C¹, Pozo-Guisado E², Martín-Romero FJ¹.

1 Department of Biochemistry and Molecular Biology, School of Life Sciences and Institute of Molecular Pathology Biomarkers, University of Extremadura, Badajoz 06006 (Spain); 2 Department of Cell Biology, School of Medicine and Institute of Molecular Pathology Biomarkers, University of Extremadura, Badajoz 06006 (Spain).

Rapid protein depletion for the study of γ tubulin-dependent microtubule nucleation (ID_48)

Roca García J, Gandolfo Domínguez P, Gavilán Dorronzoro MP, Ríos Sánchez RM

Centro Andaluz de Biología Molecular y Medicina Regenerativa (CABIMER), Seville

STIM1-CaV1.2-ITPR3 axis regulates endoplasmic reticulum-mitochondria Ca²⁺ shuttling and mitochondrial function (ID_58)

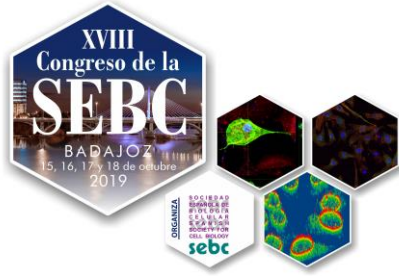
Pascual-Caro C.¹, Pozo-Guisado E.², Martín-Romero FJ.¹

1 Department of Biochemistry and Molecular Biology, School of Life Sciences and Institute of Molecular Pathology Biomarkers, University of Extremadura, Badajoz 06006 (Spain); 2 Department of Cell Biology, School of Medicine and Institute of Molecular Pathology Biomarkers, University of Extremadura, Badajoz 06006 (Spain).

Study of the degradative interactome of magnetic nanoparticles developed for biomedical applications (ID_37)

Portilla, Y, Paradela, A, Barber, D.F

Centro Nacional de Biotecnología/CSIC, Madrid, Spain



Comunicaciones Posters

TGF β stimulation promotes distinct Sirt1 phosphorylation patterns in different mammary cancer cell lines (73)

Liarte S¹, Moreno-Sánchez PM¹, Carballo-Santana M¹, Alonso-Romero JL², Nicolás FJ¹

1 Laboratorio de Regeneración, Oncología Molecular y TGF β , IMIB-Arrixaca, El Palmar, Murcia, Spain; 2 Servicio de Oncología, Hospital Clínico Universitario Virgen de la Arrixaca, El Palmar, Murcia, Spain.

The NADPH Oxidase NOX4 Inhibits c-Myc and Nrf2 Activation and Protects Cells from Oxidative Stress in Hepatocellular Carcinoma (ID_5)

Peñuelas-Haro, I^{1,2}, Bertran, E^{1,2}, Crosas-Molist, E¹, Zhang, S³, Knaus, UG³, Fabregat, I^{1,2,4}

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

The plasma membrane Ca²⁺ channel ORAI1 is required for lamellipodia formation, persistence, and cell directness (ID_50)

Sánchez-López I¹, Espinosa-Bermejo N¹, Rodríguez-Ruiz L², Perez-Oliva AB², Mulero V², Pozo-Guisado E³, Martín-Romero FJ¹

(1) Department of Biochemistry and Molecular Biology, School of Life Sciences and Institute of Molecular Pathology Biomarkers, University of Extremadura, Badajoz 06006 (Spain); (2) Department of Cell Biology and Histology, University of Murcia, IMIB-Arrixaca, Murcia 30100 (Spain); (3) Department of Cell Biology, School of Medicine and Institute of Molecular Pathology Biomarkers, University of Extremadura, Badajoz 06006 (Spain).

Symposium 5: "Cell differentiation and reprogramming"

Chairs:

María Abad. Cellular Plasticity and Cancer Group Vall d'Hebron Institute of Oncology (VHIO)

Anna Bigas. Institut Hospital del Mar d'Investigacions Mèdiques (IMIM). Barcelona

A novel Wt1 mosaic mice in Wt1-cre demonstrates (ID_12)

Alejo Torres-Cano¹, Marina Ramiro-Pareta¹, Manuel Reina¹, Francesc X. Soriano^{1,3} and Ofelia M. Martínez Estrada^{1,2}

1 Celltec-UB, Department of Cell Biology, Physiology and Immunology, Faculty of Biology, University of Barcelona. Barcelona, Barcelona; 2 Institute of Biomedicine (IBUB), University of Barcelona. Barcelona, Barcelona; 3 Institut de Neurociències, Universitat de Barcelona. Barcelona, Barcelona.

AhR as diagnostic marker and/or therapeutic target in hepatocellular carcinoma (ID_53)

Rejano-Gordillo C. M.¹, Moreno-Marín N.² & Fernández-Salguero P.M.¹

1 Instituto Universitario de Investigación Biosanitaria de Extremadura, (INUBE), Badajoz, Spain; 2 Gulbenkian Institute of Science (IGC), Research institute Oeiras, Portugal

Cell corpse removal is dependent on non-canonical autophagy during retinal neurogenesis (ID_16)

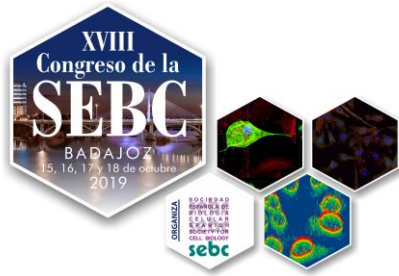
Beatriz Villarejo-Zori, Lorena-Esteban Martínez and Patricia Boya

CIB-CSIC, Madrid, Spain

Immunohistochemical detection of proteins involved in planar cell polarity (PCP) during retinal development (ID_34)

Álvarez-Hernán G.¹, Garrido-Jiménez S.², Román AC.², Carvajal-González JM.², Francisco-Morcillo J.¹

1 Área de Biología Celular, Facultad de Ciencias, Universidad de Extremadura, Badajoz; 2 Área de Bioquímica, Facultad de Ciencias, Universidad de Extremadura, Badajoz.



Comunicaciones Posters

Long-term exposure of human skin keratinocytes to graphene produces molecular and cellular alterations resembling cell transformation (ID_ 23)

Frontiñán-Rubio, J.^{1,2}; González-Velázquez, V.J.¹, Vázquez, E.^{1,3}; Durán-Prado, M.²

1 Instituto Regional de Investigación Científica Aplicada (IRICA), UCLM, Ciudad Real; **2** Grupo de Estrés Oxidativo y Neurodegeneración, UCLM, Ciudad Real; **3** Facultad de Ciencias y Tecnologías Químicas, UCLM, Ciudad Real

Neuroendocrine component of the tumour microenvironment and its redox regulation in androgen-dependent prostate cancer cells (ID_ 36)

Quirós-González, I.^{1,3,4}, Alvarez-Artme A.^{1,2,3}, Cernuda-Cernuda R.^{1,3}, Mayo J.C.1,2,3 & Sainz R.M.^{1,2,3}

1 Departamento de morfología y biología celular, Universidad de Oviedo. Oviedo. Asturias; **2** Redox biology group, IUOPA, Universidad de Oviedo. Oviedo. Asturias; **3** BioXMet, ISPA-FINBA, Hospital central de Asturias. Oviedo. Asturias; **4** Department of physics and Cancer Research UK Cambridge institute, University of Cambridge, Cambridge UK.

Stemness-related genes expression pattern in SHSY5Y human neuroblastoma cell line differentiation process (ID_ 51)

González-Rico F.J., del Valle-del Pino N., Mulero-Navarro S., Merino J.M.

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

Wt1 is a major regulator of developmental angiogenesis (ID_ 13)

Marina Ramiro-Pareta¹, Alejo Torres-Cano¹, Manuel Reina², Francesc X. Soriano³ and Ofelia M Martínez-Estrada¹.

¹Celltec UB, Department of Cell Biology, Physiology and Immunology, University of Barcelona, Barcelona; and Institute of Biomedicine, University of Barcelona, Barcelona; ²Celltec UB, Department of Cell Biology, Physiology and Immunology, University of Barcelona, Barcelona; ³Celltec UB, Department of Cell Biology, Physiology and Immunology, University of Barcelona, Barcelona; and Institut de Neurociències, University of Barcelona, Barcelona

Symposium 6: “Cellular death and autophagy”

Chairmen:

Joan Gil. Departamento de Ciencias Fisiológicas, Universidad de Barcelona

José M. Fuentes. Departamento de Bioquímica, Universidad de Extremadura (UEX)

Fluorizoline inhibits mitophagy in a Parkin-independent manner (ID_ 55)

Sonia Núñez-Vázquez¹, José Saura-Esteller¹, Ismael Sánchez-Vera¹, Ana M. Cosialls¹, Gabriel Pons¹, Daniel Iglesias-Serret^{1,2}, Sandrine Marchetti³, Jean-Ehrland Ricci³ and Joan Gil¹

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Symposium 7: “Cellular neurobiology”

Chairwomen:

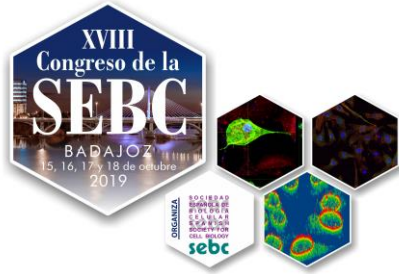
Inés M. Antón. Centro Nacional de Biotecnología (CNB-CSIC) and CIBERNED, Madrid

María Ángeles Moro. Departamento de Farmacología y Toxicología. Universidad Complutense de Madrid (UCM). Madrid

Ahr gene expression during the embryony development of Gallus gallus (ID_ 1)

Callejas-Marín A.^{1,2}, Lois C.², Hidalgo-Sánchez M.¹, Sánchez-Guardado L.²

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Coenzyme Q10 as a novel modulator of protein expression in glioblastoma (ID_45)

Llanos-González E^{1,2}, García-Carpintero S^{1,2}, Peinado JR^{1,2}, Muñoz J³, Zarzuela E³, Malumbres M⁴, Alcáin FJ^{1,2} and Durán-Prado M^{1,2#}

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Cortical distribution of GABAergic interneurons in the adult brain is determined by timing and birth place (ID_6)

Fazzari P^{1,6}, Mortimer N^{2,3,4,6}, Yabut O² and Pla R^{2,5}

1 CIPF, Centro de Investigación Príncipe Felipe, Valencia, Valencia; 2 University of California San Francisco (UCSF) San Francisco, California; 3 Departamento de Psiquiatría Hospital Universitario Vall d'Hebron, Barcelona, Barcelona; 4 Division of Molecular Psychiatry, Center of Mental Health, University of Würzburg, Würzburg, Germany; 5 Instituto de Investigación en Discapacidades Neurológicas (IDINE)-Universidad Castilla-La-Mancha, Albacete, Castilla La Mancha; 6 These authors contributed equally

Distribution of 5-HT1B receptors in human sperm studied with high-resolution microscopy and graph-based methods (ID_62)

De Juan, A¹; Girela, JL²; De Juan, J^{2,3}

¹University Hospital, San Juan, Alicante, Spain; ²Biotechnology Research Group, Department of Biotechnology, Faculty of Sciences, University of Alicante, San Vicente del Raspeig, Alicante, Spain, ³IUIEG, University of Alicante, San Vicente del Raspeig, Alicante, Spain.

Human β -amyloid enriched extracts as a tool to investigate prion-like hypothesis of Alzheimer's disease (ID_20)

Pedrero-Prieto, C.M.¹, Flores-Cuadrado, A.², Saiz-Sánchez, D.², Úbeda-Bañón, I.², Frontiñán-Rubio, J.¹, Alcáin, F.J.¹, Mateos-Hernández, L.^{3,4}, de la Fuente, J.^{3,5}, Durán-Prado, M.¹, Villar, M.³, Martínez-Marcos, A.^{2*}, Peinado, J.R.^{1*}

1 Department of Medical Sciences, Ciudad Real Medical School, Oxidative Stress and Neurodegeneration Group, Regional Center for Biomedical Research, University of Castilla-La Mancha, Ciudad Real, Spain; 2 Department of Medical Sciences, Ciudad Real Medical School; Neuroplasticity and Neurodegeneration Group, Regional Center for Biomedical Research, University of Castilla-La Mancha, Ciudad Real, Spain; 3 SaBio. Instituto de Investigación en Recursos Cinegéticos IREC, CSIC-UCLM-JCCM, Ciudad Real, Spain; 4 UMR BIPAR, INRA, ANSES, Ecole Nationale Vétérinaire d'Alfort, Université Paris-Est, 94700 Maisons-Alfort, France; 5 Department of Veterinary Pathobiology, Center for Veterinary Health Sciences, Oklahoma State University, Stillwater, Oklahoma, United States of America.

Impact of Mitofusin 2 tethering role on mitochondrial bioenergetics (ID_41)

Sergi Casellas-Díaz^(1,2), Marc Segarra-Mondéjar^(1,2), Guillem Riqué-Pujol⁽¹⁾, Ofelia M. Martínez-Estrada⁽¹⁾, Manuel Reina⁽¹⁾, Francesc X Soriano^(1,2)

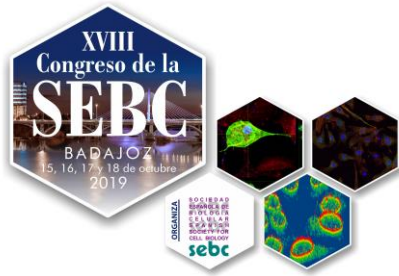
1- CELLTEC-UB, Department of Cell Biology, Physiology and Immunology, Faculty of Biology, University of Barcelona, Barcelona, Spain; 2- Institute of Neurosciences, University of Barcelona, Barcelona, Spain.

Poly (ADP-Ribose) Polymerase (PARP-1) inhibition activates the DNA damage response pathway and sensitizes retinal cells to cell death induced by oxidative stress (ID_22)

Martín-Guerrero SM¹, Casado P², Cuadros MA¹, Navascués J¹, Cutillas PR², Martín-Oliva D¹.

1. Departamento de Biología Celular, Facultad de Ciencias, Universidad de Granada, Granada.

2. Cell Signalling and Proteomics Group, Centre for Haemato-Oncology, Barts Cancer Institute, Queen Mary University of London, London.



Symposium 8: "Last generation technologies in Cell Biology"

Chairs:

Juan Llopis. Universidad de Castilla - La Mancha, Albacete

Alberto Álvarez-Barrientos. Servicio de Técnicas Aplicadas a la Biociencia, Universidad de Extremadura. (UEX)

Proteomic profiling of stallion spermatozoa suggests a shift towards glycolysis after cryopreservation (ID_21)

Martín-Cano FE, Ortiz-Rodríguez JM, Silva-Rodríguez A, Ortega-Ferrusola C, Gil MC, Peña FJ*

Laboratory of Equine Reproduction and Equine Spermatology, Veterinary Teaching Hospital, University of Extremadura, Cáceres, Spain

Detection of Bacterial Communities in human heart valves by NGS (ID_29)

Gutiérrez-Martín Y⁽²⁾, Calvo-Cano A⁽¹⁾, Muñoz-Sanz A⁽¹⁾, Álvarez-Barrientos A⁽²⁾.

(1) Infectious Diseases Department, University Hospital of Badajoz, Spain; (2) Servicio de Técnicas Aplicadas a las Biociencias (STAB), Universidad de Extremadura, Badajoz, Spain.

New experimental murine models for colorectal cancer (ID_38)

López-Briones, T¹, Ortega-Rodríguez, J¹, Cámara, AB^{2,3}, Fernández-Barral, A^{2,3}, Bustamante-Madrid, P^{2,3}, Costales-Carrera, A^{2,3}, Zarich, N¹, Oliva, JL⁴, Barbáchano, A^{2,3}, Muñoz, A^{2,3}, Anta, B¹, Rojas-Cabañeros, JM¹ and de Lucas, MP¹.

¹ Unidad de Biología celular. UFIEC. Instituto de Salud Carlos III. Majadahonda, Madrid; ² Instituto de Investigaciones Biomédicas "Alberto Sols", Consejo Superior de Investigaciones Científicas - Universidad Autónoma de Madrid. Madrid, Madrid; ³ Biomedical Research Networking Centres-Oncology (CIBERONC), Madrid, Madrid; ⁴ Unidad de Senescencia Celular. UFIEC. Instituto de Salud Carlos III. Majadahonda, Madrid.

Transcriptome analysis reveals that fertilization with cryopreserved sperm downregulates genes relevant for early embryo development in the horse (ID_66)

Gutiérrez Martín Y², Ortiz-Rodríguez JM¹, Ortega-Ferrusola C¹, Gil MC¹, Martín-Cano FE¹, Álvarez-Barrientos A², Román Á³, Peña FJ¹.

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