



Comunicaciones Orales Breves Short oral communications

Miércoles, 27 de octubre / Wednesday, 27th October

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

10:00h -10:12h Marker-free light microscopy imaging can identify cellular types and states (ID_47)

Roman AC, Carvajal-Gonzalez JM, Mulero-Navarro SM.

Departamento de Bioquímica, Biología Molecular y Genética, Universidad de Extremadura (Badajoz, Spain).

10:12h-10:24h Specific inactivation of DNp73-isoform using CRISPR/Cas9 in mouse embryonic stem cells accelerates neural differentiation (ID_30)

López-Ferreras L^{1,2}, Alonso-Olivares H^{1,2}, Martínez-García N^{1,3}, Maeso-Alonso L^{1,2}, Martín-López M^{1,4}, Díez-Matilla Á¹, Villoch-Fernandez J^{1,2}, Marques MM^{3,5} and Marin MC^{1,2}

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

Symposium 2: "Cell differentiation and reprogramming"

Chairs:

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

Manuel Reina. Universitat de Barcelona. Barcelona. Spain

12:50h -13:00h ATF4 role during cell differentiation and proliferation of the airway epithelium (ID_45)

Barrera-Lopez, J.F.¹, Garrido-Jimenez, S.¹, Diaz-Chamorro, S., Mateos-Quiros, C.M., Centeno, F., Roman, A.C., Carvajal-Gonzalez, J.M.

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

13:00h -13:10h Role of AhR in cellular reprogramming (ID_58)

Ordiales-Talavera A.¹, González-Rico F.J.², Fernández-Salguero P.M.¹

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



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Symposium 3: "Transcription/Translation"

Chairs:

Javier León. IBBTEC. Cantabria. Spain

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

16:45h -16:57h **CCDC6, a novel partner of the transcription factor MNT (ID_16)**

Junco, V., Lastra, S., Liaño-Pons, J., Lafita-Navarro, M.C., Delgado, M.D. and León, J.

Instituto de Biomedicina y Biotecnología de Cantabria (IBBTEC). Universidad de Cantabria-CSIC, Santander. Spain.

16:57h -17:09h **RCAN1 plays a tumor suppressor role in Small Cell Lung Cancer (ID_5)**

Redin E^{1,2,3}, Exposito F^{1,2,3}, Otegui N 1, Montuenga L^{1,2,3}, Calvo A^{1,2,3}

1 Program in Solid Tumors, Center for Applied Medical Research (CIMA), University of Navarra, Pamplona, Spain. 2 CIBERONC, ISCIII, Madrid, Spain. 3 IDISNA and Department of Pathology, Anatomy and Physiology, School of Medicine, University of Navarra, Pamplona, Spain

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

19:15h -19:27h **Regulation of chromatin dynamics by pioneer transcription factors of the FOX family in human hepatocarcinoma (ID_69)**

González-Rico F.J., Ordiales-Talavera A., Merino-Fernández J.M and Fernández-Salguero P.M.

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

19:27h -19:38h **VCP limits the activation of the replication stress response during DNA replication (ID_37)**

Emilio Lecona¹; Sara Rodríguez-Acebes²; Rodrigo Martín-Rufo¹; Alejandro Fernández-Llorente¹; Victoria Menéndez-García¹; Juan Méndez²

1 Centro de Biología Molecular Severo Ochoa (CBMSO); 2 Centro Nacional de Investigaciones Oncológicas (CNIO)

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

10:00h -10:12h 'Redoxisome' (TRX1/TXNIP) levels are imbalanced in prostate cancer models under androgen-deprivation (ID_ 90)

Alcón-Rodriguez, S^{1,2,3}, Rodríguez-García, A⁴, Quirós-González, I^{1,2,3}, Mayo, JC^{1,2,3}, Sainz, RM^{1,2,3}

1 Instituto Universitario Oncológico del Principado de Asturias (IUOPA), Universidad de Oviedo. Oviedo, Asturias. **2** Departamento de Morfología y Biología Celular. Facultad de Medicina, Universidad de Oviedo. **3** Instituto de Investigación Sanitaria del Principado de Asturias (ISPA). Oviedo, Asturias. **4** Department of Microbiology, Tumor and Cell Biology, Karolinska Institutet. Estocolmo, Suecia.

10:12h -10:24h Surface coating dictates the intracellular trafficking and endolysosomal degradation of iron oxide magnetic nanoparticles (ID_ 88)

Portilla Y.¹, Mulens-Arias V.², Morales M.P.³, Barber D.F.¹

1 Department of Immunology and Oncology and Nanobiomedicine Initiative, Centro Nacional de Biotecnología (CNB-CSIC), Darwin, 3, 28049 Madrid, Spain. **2** Centro Nacional de Biotecnología (CNB-CSIC), (actual adress) Integrative Biomedical Materials and Nanomedicine Lab, Department of Experimental and Health Sciences (DCEXS), Pompeu Fabra University, Carrer Doctor Aiguader 88, 08003 Barcelona, Spain. **3** Department of Energy, Environment and Health, Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC), Sor Juana Inés de la Cruz 3, Cantoblanco, 28049 Madrid, Spain.

Symposium 6: "Metabolic homeostasis and disease"

Chairs:

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

Miguel R. Campanero. CBMSO. Madrid. Spain

13:00h -13:12h Searching for serum exosomal biomarkers in early-stage cutaneous melanoma patients (ID_ 61)

Agüera-Lorente A¹, Larrinaga M¹, Boyano MD^{1,2}, Gardeazabal J², Sanchez A², Apraiz A^{1,2}, Asumendi A^{1,2}

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

13:12h -13:24h Upstream and downstream activation of the type 1 interferon pathway promotes kidney inflammation (ID_ 25)

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

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

Symposium 7: "Immunology"

Chairs:

Alberto Álvarez. 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)

17:00h -17:12h Diverse modes of microtubule targeting converge on non-muscle myosin II activation in a GEF-H1-dependent manner (ID_24)

Asensio Juárez, G and Vicente Manzanares, M.

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.

17:12h -17:24h Intercellular adhesion molecule -1 (ICAM-1) regulates apicobasal polarity in hepatic epithelial cells in an actomyosin-dependent manner (ID_87)

Cacho-Navas, C.¹; Colás-Algora, N.¹; Reglero-Real, N.²; Cuervo, A.³; Conesa, J.J.³; Barroso, S.¹; de Rivas, G.¹; López-Pujante, C.¹; Ciorda, S.³; Paradela, A.³; Carazo, J.M.³; Feito, J.⁴; Andrés, G.¹; Correas, I.¹; Noursharg, S.²; Alonso, M.A.¹; Huch, M.⁵; Millán, J.¹

1 Centro de Biología Molecular Severo Ochoa, CSIC-UAM, Madrid, Spain. 2 William Harvey Research Institute, Barts and The London School of Medicine and Dentistry, Queen Mary University of London, London, UK. 3 Centro Nacional de Biotecnología-CSIC, Madrid, Spain. 4 Servicio de Anatomía Patológica, Hospital Universitario de Salamanca, Salamanca, Spain. 5 Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany..

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

19:30h -19:42h Characterization the role of canonical and non-canonical autophagy in epithelial morphogenesis (ID_42)

Alfonso-Pérez T*, Baonza-Martínez G*, Herranz-Gómez G, Gómez-López S, Martínez-Martín N, Martín-Belmonte F.

Severo Ochoa Molecular Biology Center (CBMSO). Universidad Autónoma de Madrid

19:42h -17:54h Plasma Membrane Redox System, at the crossroad of metabolism, aging and cancer (ID_93)

Alberto Diaz-Ruiz^{1,2} | Michael Lanasa¹ | Joseph Garcia¹ | Miguel Calvo-Rubio^{1,3} | Jose Manuel Villalba³ | Plácido Navas⁴ | Michel Bernier¹ | Rafael de Cabo^{1,2}

1 Translational Gerontology Branch, National Institute on Aging Intramural Program, National Institutes of Health, Baltimore, MD, 21224, USA. 2 Nutritional Interventions Group, Precision Nutrition and Aging, Institute IMDEA Food, Crta. de Canto Blanco n° 8, 28049, Madrid, Spain. 3 Department of Cell Biology, Physiology and Immunology, Agrifood Campus of International Excellence, ceiA3, University of Cordoba, Cordoba, Spain 4 Centro Andaluz de Biología del Desarrollo, and CIBERER, Instituto de Salud Carlos III, Universidad Pablo de Olavide-CSIC, Sevilla, Spain



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Viernes, 29 de octubre / Friday, 29th October

Symposium 9: "Neuron and Glia Biology"

Chairs:

Teresa Iglesias. IIB-CSIC UAM. Madrid. Spain

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

10:30h -10:42h Evaluation of marine natural compounds as antioxidant candidates against Parkinson's disease (ID_80)

Vázquez-Jiménez, A.^{1†}, Villoch-Fernandez, J.^{1,2†}, Sánchez, JM.³, Martín-López, M.³, Fernández, A.³, Marqués, M.⁴ and Marín, C.^{1,2*}

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

10:42h -10:54h Exogenous coenzyme Q10 ameliorates β -amyloid-induced alterations in proteostasis in Neuro2A cells cultured in vitro (ID_57)

Llanos-González E, Frontiñán-Rubio J, Pedrero-Prieto C, García-Carpintero S, Sancho Bielsa FJ, Peinado JR, Alcaín FJ, Rabanal-Ruiz Y and Durán-Prado M

GEON, Faculty of Medicine of Ciudad Real, University of Castilla-La Mancha, SPAIN