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Organiza

SOCIEDAD
ESPAÑOLA DE
BIOLOGÍA
CELULAR
SPANISH
SOCIETY FOR
CELL BIOLOGY
sebc

XIX Congreso de la Sociedad Española de

BIOLOGÍA CELULAR



BOADILLA DEL MONTE (Madrid)

26, 27, 28 y 29 de octubre de 2021

Sede Biblioteca
Princesa doña Leonor
(C/Mártires, 1)

Información e inscripciones:
www.xixcongresosebc.com

@XIXCSEBC

Dear friends,

It is with great pleasure to invite you on behalf of the Board of the Spanish Cell Biology Society (SEBC), Organizing Committee and Scientific Committee, to the **XIX Congress of the Spanish Cell Biology Society**, to be held in **Boadilla del Monte, Madrid (Spain)** from **26th to 29th October 2021**.

The Organizing Committee, along with the SEBC board, wish this event to be a moment of important scientific networking, in which researchers, students, companies and all other attendees can get in contact with some of the most promising researchers in Cell Biology and learn about recent exciting developments in the field. For designing the scientific program, innovative and cutting-edge topics have been selected, thus providing a global vision of the most recent advances in Cell Biology and state-of-the-art technologies (*Last Generation Technologies*), together with a broad range of approaches in the areas of Cancer Stem Cells, Cell differentiation and reprogramming, Transcription & translation Chromatin dynamics and epigenetics, Metabolism & signal transduction, Cell-Microenvironment Interactions, Immunology, Aging, Senescence, Autophagy and Death, and Neuron Biology.

We believe your presence and participation would be of great interest to the XIX Congress of the Spanish Cell Biology Society. Moreover, our Congress may be also an exciting opportunity for you to stand out and to expand your contact network through personal interactions, particularly in the Iberian Peninsula. This SEBC Congress will be an excellent opportunity to discuss networking and scientific consortia to expand visibility and impact of your research.

We hope and wish to see you in Boadilla del Monte, and we are confident that you will enjoy your stay both scientifically and socially in our city.

With friendly regards,



Custodia García Jiménez
On behalf of the Organizing Committee
XIX Congress of the Spanish Cell Biology Society
Boadilla del Monte, 26th to 29th October 2021

Comité Organizador / Organising Committee

Custodia García Jiménez
Javier Martínez-Useros
Ana Chocarro Calvo
Mario Durán Prado

Comité Científico / Scientific Committee

Alberto Álvarez-Barrientos
Patricia Boya
Miguel R. Campanero
Mario Durán Prado
Pedro Fernández Salguero
Custodia García
Colin R. Goding
Crisanto Gutiérrez
Paz Herráez Ortega
Teresa Iglesias
Javier León Serrano
Juan Llopis
Mar Malagón
Carmen Marín Vieira
Javier Martínez-Useros
Manuel Reina
Rosa M. Sainz Menéndez
Pilar Sánchez Testillano
José Carlos Segovia

Martes, 26 de octubre / Tuesday, 26th October

- 16:00h** Recepción, acreditación y registro
 Entrega de documentación
Reception, accreditation and registration
Documentation delivery
- 19:00h** Acto de Apertura / *Opening Ceremony*
- 19:30h** Conferencia inaugural/ *Inaugural conference*
“Cell plasticity trajectories in tumor evolution”
Ángela Nieto
 Instituto de Neurociencias- CSIC-UMH, San Juan de Alicante. Spain
- 20:30h** Recepción de bienvenida / *Welcome Reception*

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10:55-11:35h **Coffee break & Poster session** (Hotel El Antiguo Convento)

Miércoles, 27 de octubre / Wednesday, 27th October

- 8:30-10:55h** **Keynote Session 1: “Stem Cells”**
- 8:30-9:00h **“The EMBO Keynote Lecture”**
-
- Phenotype switching in cancer progression*
Colin Goding
 EMBO Member
 Ludwig Institute for Cancer Research (LICR). Oxford. UK
- 9:00-9:30h *Neural stem cell heterogeneity and cycling plasticity*
Isabel Fariñas
 Universidad de Valencia. Spain

- 9:30-10:00h *Reprogramming the cancer genome*
Manuel Collado
 Health Research Institute of Santiago de Compostela (IDIS),
 Santiago de Compostela, Spain

10:00-10:30h Short oral communications

10:30-10:55h **Technical advances: “Exosomes”**

*Use of high-sensitivity flow cytometer to immunophenotype
 Extracellular Vesicles*
Alberto Álvarez-Barrientos
 Universidad de Extremadura. Spain

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Chairs:

Colin Goding
Pedro Fernández

11:35-13:40h **Keynote Session 2: “Cell differentiation and reprogramming”**

- 11:35-12:00h *Understanding and controlling in vivo reprogramming towards
 pluripotency*
Manuel Serrano
 IRB. Barcelona. Spain
- 12:00-12:25h *Looking at the inner working of the IYO/RIMA cell
 differentiation switch*
Enrique Rojo
 CNB. Madrid. Spain
- 12:25-12:50h *TAp73 acts as a regulator hub of gene networks involved in
 differentiation and vascular morphogenesis*
Carmen Marín Vieira
 Universidad de León (ULE). Spain

12:50-13:10h Short oral communications

Miércoles, 27 de octubre / Wednesday, 27th October

13:10-13:40h Technical advances: "Cryo EM"

The power of cryoelectron microscopy in the fields of structural biology and cell biology

José M. Valpuesta
 CNB. CSIC. Madrid. Spain

Chairs:

Carmen Marín
Manuel Reina

13:40-15:30h Lunch & Poster session (Hotel El Antiguo Convento)

15:30-17:45h Keynote Session 3: "Transcription/Translation"

15:30-15:45h *Addressing the true complexity of biology with 10x Genomics single cell and spatial multiomics*

Dr. Luca Mazzitelli
 Science & Technology Advisor EMEA Distributors

Conferencia patrocinada
 Sponsored Lecture



15:45-16:15h *New strategies to increase efficacy and to overcome resistance to pro-senescence drugs in cancer*

María D. Mayán
 INIBIC. A Coruña. Spain

16:15-16:45h *MNT at the crossroad between MYC and NF-κB pathways controlling cell proliferation*

Javier León
 IBBTEC. Cantabria. Spain

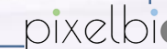
16:45-17:15 Short oral communications

17:15-17:45h Technical advances: "Single molecule imaging"

The needle and the haystack: characterizing the search mechanism of mammalian transcription factors by multimodal single molecule tracking

Davide Mazza
 IRCCS Ospedale San Raffaele. Milano. Italy

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Chairs:

Javier León
Javier Martínez-Useros

17:45-18:15h Coffee break & Poster session (Hotel El Antiguo Convento)

18:15-19:45h Keynote Session 4: "Chromatin dynamics and epigenetics in development"

18:15-18:45h *Multifunctional crosstalk of chromatin and cell proliferation*

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

18:45-19:15h *Transcriptional regulation in response to osmostress*

Francesc Posas
 IRB. Barcelona. Spain

19:15-19:45h Short oral communications

Chairs:

Paz Herráez
Crisanto Gutiérrez

Miércoles, 27 de octubre / Wednesday, 27th October

19:45h **Automated 3D Imaging of large samples - Ultramicroscope Blaze**
Luis Miguel Muñoz Menéndez
 Imaging Sales Specialist. Miltenyi Biotec España

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20:00h **Asamblea general SEBC**

10:00-10:30h Short oral communications

Chairs:
Custodia García
Mar Malagón

10:30-11:30h Coffee break & Poster session (Hotel El Antiguo Convento)

11:30-13:30h Keynote Session 6: “Metabolic homeostasis and disease”

11:30-12:00h *Redox and Metabolic Homeostasis in Hepatocellular carcinoma*
Isabel Fabregat
 Bellvitge Biomedical Research Institute (IDIBELL).
 Barcelona. Spain

12:00-12:30h *Immunometabolism in Aging and Age-Related Diseases*
María Mittelbrunn
 CBM. Madrid. Spain

12:30-13:00h *Nitric oxide overproduction causes aortic disease in Marfan syndrome*
Miguel R. Campanero
 CBMSO. Madrid. Spain

13:00-13:30h Short oral communications

Chairs:
Juan Llopis
Miguel R. Campanero

Jueves, 28 de octubre / Thursday, 28th October

8:30-10:30h Keynote Session 5: “Metabolism and Signal Transduction”

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8:30-9:00h *Nutrient Signaling: metabolic driver of cancer and aging*
Alejo Efeyan
 CNIO. Madrid. Spain

9:00-9:30h *Mitochondrial dynamics in metabolic control, and signals involved*
Antonio Zorzano
 IRB. Barcelona. Spain

9:30-10:00h *A Journey to the adipocyte core*
Mar Malagón
 Instituto Maimónides de Investigación Biomédica de
 Córdoba (IMIBIC). Spain

Jueves, 28 de octubre / Thursday, 28th October

13:30-15:30h Lunch & Poster session (Hotel El Antiguo Convento)

15:30-18:00h Keynote Session 7: "Immunology"

15:30-16:00h *Protection against highly pathogenic human coronaviruses*

Isabel Sola

Centro Nacional de Biotecnología (CNB). Madrid. Spain

16:00-16:30h *Lentiviral Gene Therapy and Gene Editing for the Treatment of Pyruvate Kinase Deficiency, an Inherited Hemolytic Disease*

José Carlos Segovia

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

16:30-17:00h *Neutrophils, NETs, IL-8 and TNF in a protumor collusion*

Ignacio Melero

Clínica Universidad de Navarra. Spain

17:00-17:30h Short oral communications

17:30-18:00h **Technical advances: "Deep cell profiling by mass cytometry"**

Concepción Marañón Lizana

GENYO Centre. Granada. Spain.

Chairs:

Alberto Álvarez-Barrientos

José Carlos Segovia

18:00-18:30h Coffee break & Poster session (Hotel El Antiguo Convento)

18:30-20:30h

Keynote Session 8: "Aging, Senescence, Autophagy and Death"

18:30-19:00h *Autophagy in aging and aging related diseases*

Patricia Boya

CIB. CSIC. Madrid. Spain

19:00-19:30h *Mice deficient for autophagy-related ATG4 proteins: from delipidation to neurodegeneration and beyond*

Guillermo Mariño

Universidad de Oviedo. Spain

19:30-20:00h Short oral communications

20:00-20:30h **Technical advances: "Novel in vitro biomimetic models based on organ on chip technology to simulate complex autophagy and cell death related events"**

Iñaki Ochoa

Instituto Universitario de Investigación en Ingeniería de Aragón. Zaragoza. Spain

Chairs:

Rosa M. Sainz

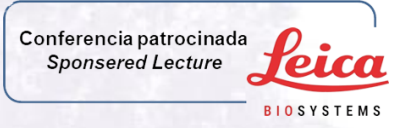
Patricia Boya

21:30h

Cena de clausura / Closing Dinner (Restaurante Gasterea)

Viernes, 29 de octubre / Friday, 29th October

- 9:00-11:00h Keynote Session 9: "Neuron and Glia Biology"**
- 9:00-9:30h *Novel cellular and molecular mechanisms of Hydrocephalus*
Teresa Iglesias
 IIB-CSIC UAM. Madrid. Spain
- 9:30-10:00h *Protein homeostasis in Neurons*
Beatriz Álvarez Castelao
 Universidad Complutense de Madrid (UCM). Madrid. Spain
- 10:00-10:30h *Impact of mitochondrial organization on astroglia-neuron metabolic cooperation*
Juan P. Bolaños
 Instituto de Biología Funcional y Genómica (IBFG). Salamanca. Spain
- 10:30-11:00h **Short oral communications**
- Chairs:**
Teresa Iglesias
Mario Durán
- 11:00-11:30h Coffee break & Poster sesión** (Hotel El Antiguo Convento)
- 11:30-11:45h How to develop a 6-plex chromogenic MX stain on an automated staining system**
Daniel Frutos
 Sales Enablement Manager, Advanced Diagnostics IBERIA, Leica Biosystems



- 11:45-12:00h Premios a mejores comunicaciones orales y póster, presentados por jóvenes investigadores**
Presentations and poster prizes, presented by young investigators



- 12:00-13:00h Closing**
- Combined cell & gene therapy for epidermolysis bullosa*
Prof. Michele De Luca
 University Modena and Reggio Emilia. Italy

- 13:00h Clausura y despedida / Closing Ceremony**

Secretaría Técnica

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