

Joint Congress 2017

OCTOBER
24-27 th

GIJÓN
PALACIO DE CONGRESOS

8.30
9.30

REGISTRATION

9.30
11.30

SATÉLITE STI. (SEG) CAMBIO CLIMÁTICO. ESTRATEGIAS GENÉTICAS PARA RETOS DEL FUTURO: ALIMENTACIÓN, MEDIO AMBIENTE Y CAMBIO CLIMÁTICO.

MODERADOR: J. PROHENS

■ Daniel Ramón Vidal (Biópolis, S.L., Paterna, Valencia)

"Genética y alimentación"

■ Francisco García – Olmedo (Real Academia de Ingeniería y Colegio Libre de Eméritos, Madrid)

"Mejora molecular de las plantas frente al cambio climático"

■ Elías Fereres (Real Academia de Ingenieros)

"Agricultura y cambio climático: papel del agua y del suelo"

■ Jaume Prohens (Instituto de Conservación y Mejora de la Agrodiversidad Valenciana, Universitat Politècnica de València, Valencia)

"Utilización de especies silvestres para la mejora genética en la adaptación al cambio climático"

■ María Auxiliadora Prieto Jiménez (Centro de Investigaciones Biológicas, CSIC, Madrid)

"Convirtiendo la basura en bioplástico, una apuesta sostenible"

MESA REDONDA. DISCUSIÓN GENERAL

11.30
13.00

SATÉLITE STII (SEG). ESTRATEGIAS GENÉTICAS FRENTE A LAS ENFERMEDADES RARAS.

MODERADORA: GEMMA MARFANY

■ Julio Montoya (Facultad de Veterinaria, Universidad de Zaragoza)

"Enfermedades debidas a mutaciones en genoma mitocondrial"

- **Alejandro Garanto (Radboud University Medical Center, Nijmegen)**
"Terapia por oligonucleótidos antisentido en enfermedades raras causadas por mutaciones en splicing"
- **Dario Lupiáñez (Max Planck Institut for Molecular Genetics, Berlín)**
"Enfermedades raras debidas a disrupción de dominios en la cromatina"
- **Susana Balcells (Universidad Central de Barcelona)**
"Identificación de genes causantes de enfermedades raras mediante exomas"

9.30
18.30

SATÉLITE STIII (SEBC). CELL ADHESION, MIGRATION AND INVASION

- **Miguel Ángel del Pozo (Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain)**
"Cell Mechanoadaptation: Caveolae Mechanobiology and Tissue Biomechanics"
Check the complete programme on the 'Welcome STIII' online menu.

15.30
17.00

JUNTA SEG

17.00
18.30

REGISTRATION

18.30
19.00

OPENING

19.00
20.00

OPENING LECTURE

CHAIR: MIGUEL TORRES



- **ELLY TANAKA (Institute of Molecular Pathology, Vienna, Austria)**
"A molecular genetic approach to axolotl limb regeneration"

20.00
21.30

RECEPTION

9.30
11.00

S1 (SEBC) AUTOPHAGY, CELL STRESS AND CELL DEATH

CHAIR: ISABEL FABREGAT

- Tassula Proikas – Cezanne (Eberhard Karls University, Tübingen, Germany)

“WIPI protein interaction in signal control of autophagy”

- José Antonio Enríquez (Centro Nacional de Investigaciones Cardiovasculares, Madrid, Spain)

“Mitochondria define organismal metabolism”

- Seamus J. Martin (Trinity College, Dublin, Ireland)

“Exploring the nexus between cell death and inflammation”

11.00
11.30



COFFEE BREAK

11.30
13.00

S2 (SEG/SEBD) EVOLUTION

CHAIR: MIGUEL BURGOS / CO-CHAIR: MIGUEL MANZANARES

- Abderraham Khila (Institut de Génomique Fonctionnelle, Lyon, France)

“Development, selection, and species diversification”

- Patrick S. Fitze (Museo Nacional de Ciencias Naturales, Madrid, Spain)

“Drivers of sexual selection and consequences for the maintenance of genetic polymorphisms”

- David Posada (Universidad de Vigo, Pontevedra, Spain)

“Genomic evolution of intratumoral heterogeneity”

13.00
15.30



POSTERS + LUNCH (odd number)

15.30
17.00

SS1. (SEG) GENOMICS OF ADAPTATION

CHAIR: JULIO ROZAS

■ **Dra. Juliette de Meaux (University of Cologne, Germany)**

“Genomics of adaptation in the Arabidopsis genus”

■ **Dr. Antonio Barbadilla (Universidad Autónoma de Barcelona, Spain)**

“Genome adaptation during the life cycle of *Drosophila melanogaster*”

SS2. (SEBC) INTER – AND INTRA – CELLULAR TRAFFICKING

CHAIR: INÉS M. ANTÓN / CO-CHAIR: ISABEL FABREGAT

■ **Andrés Alcover (Institut Pasteur, Paris, France)**

“Interplay between intracellular traffic and cytoskeleton to control T cell activation”

■ **María Mittelbrunn (Fundación de Investigación Hospital 12 de Octubre and Centro de Biología Molecular “Severo Ochoa”, Madrid, Spain)**

“Mitochondria – Lysosomal Crosstalk in the Immune System”

SS3. (SEBD) PATTERN FORMATION AND DIFFERENTIATION

CHAR: VICTOR BORRELL

■ **Wieland Huttner (MPI for Molecular, Cell Biology and Genetics, Dresden, Germany)**

“Neural stem and progenitor cells and neocortex expansion in development and evolution”

■ **Carlos Estella (Centro de Biología Molecular “Severo Ochoa”, Madrid, Spain)**

“Molecular Logic of Appendage Formation”

17.00
18.30

SS4. (SEG) GENETIC BASIS OF PATHOGENICITY IN FUNGI

CHAIR: REYES RONCERO

■ **Judith Berman (Tel Aviv University, Israel)**

“Rapid responses to stress: how pathogenic fungi persevere during anti fungal therapies”

■ **Michael Thon (University of Salamanca, Spain)**

“Horizontal gene transfer contributes to virulence in a plant pathogenic fungus”

- **María Dolores García – Pedrajas** (Instituto de Horticultura Subtropical y Mediterránea, La Mayora, CSIC; Málaga, Spain)

“Mycoviruses as inducers of hypovirulence in vascular plant pathogenic fungi”

SS5. (SEBC) CELLULAR BASIS OF PATHOLOGY AND AGING

CHAIR: ROSA M. SAÍNZ

- **Lola Ledesma** (Centro de Biología Molecular “Severo Ochoa”, Madrid, Spain)

“Sphingomyelin induced neuronal and microglia pathology in the lysosomal storage disorder Niemann Pick type A”

- **Mario Fraga** (CINN – CSIC, IUOPA, Oviedo, Spain)

“Epigenetic alterations in aging and cancer: similar but not identical”

SS6. (SEBD) DEVELOPMENTAL GENOMICS

CHAIR: MIGUEL MANZANARES

- **Eileen Furlong** (EMBL, Heidelberg, Germany)

“Generating robustness and precision in development programs”

- **Jorge Ferrer** (Imperial College London, UK)

“Noncoding genome function in pancreas development and diabetes”

18.30

19.00



COFFEE OR SOFT DRINKS

19.00

20.00

ISDB-MOD PLENARY LECTURE

CHAIR: MARÍA PAZ HERRÁEZ



- **Arturo Álvarez – Buylla** (University of California, San Francisco, USA)

“Adult Neural Stem Cell Relay”

Sponsored by



9.30
11.00

S3 (SEBD) DEVELOPMENT BY DESIGN

CHAIR: JAMES SHARPE

- Matthias Lutolf (École Polytechnique Federal, Laussane, Swiss)
"Engineering stem cell self – organization"
- Ron Weiss (Massachusetts Institute of Technology, Cambridge, USA)
"TBA"
- Eduard Batlle (Institute for Research in Biomedicine, Barcelona, Spain)
"Organoid-based approaches to study colorectal cancer"

11.00
11.30



COFFEE BREAK

11.30
13.00

S4 (SEG) CHROMOSOME MECHANICS

CHAIR: ANDRÉS AGUILERA

- Lluís Aragón (Medical Research Council, London, UK)
"SMS complexes in chromosome segregation"
- Antonio J Giráldez (Yale University, New Haven, USA)
"Deciphering the gene regulatory code during the maternal to zygotic transition"
- Mónica Bettencourt – Dias (Instituto Gulbenkian, Oeiras, Portugal)
"Centrosome regulation in development"

13.00
15.30



POSTERS + LUNCH (even number)

15.30

17.00

SS7. (SEG) REGULATION OF GENE EXPRESSION

CHAIR: MONTSERRAT ELÍAS ARNAZ

- **Juan Carlos del Pozo** (Centro de Biotecnología y Genómica de Plantas, UPM – INIA, Madrid, Spain)

“Hormones and flavonols: coordination of cell division and differentiation in the root meristem”

- **Raúl Méndez** (Institute of Research in Biomedicine, Barcelona, Spain)

“The CPEB – family of RNA – binding proteins, new somatic functions in stress – response and cancer”

SS8. (SEBC). CYTOSKELETON AND CELL ARCHITECTURE.

CHAIR: PAZ HERRÁEZ / CO-CHAIR: CARMEN MARÍN

- **Nathalie Spassky** (Institute de Biologie de L'Ecole Normale Supérieure de Paris (IBENS CNRS), Paris, France)

“Mechanisms of multiciliated ependymal cell development”

- **Alexis Gautreau** (Université de Paris – Saclay, Palaiseau Cedex, France)

“Branched actin networks in cell migration and cancer progression”

SS9. (SEBD). ON GROWTH AND FORM

CHAIR: FERNANDO CASARES

- **Arkhat Abzhanov** (Imperial College / Natural History Museum, London, UK)

“Evolution of the Animal Face: from morphology to development mechanisms”

- **Dagmar Iber** (Computational Biology, ETH, Basel, Swiss)

“How to shape an organ? – Computational Models of Organogenesis”

17.00

18.30

SS10. GENOME INSTABILITY

CHAIR: OSCAR FERNÁNDEZ – CAPETILLO

- **Óscar Fernández – Capetillo** (Centro Nacional de Investigación Oncológicas, Madrid, Spain)

“Exploring the role of replication stress in cancer and ageing”

- **Andrés Joaquín López – Contreras** (Panum Institute, University of Copenhagen, Denmark)

“Defining novel therapeutic targets in the DNA damage response pathway”

- **Ignacio Pérez de Castro** (Instituto de Salud Carlos III, Madrid, Spain)

“Search for chromosome instability biomarker with prognostic value in cancer”

SS11. (SEBC) CELL SIGNALING

CHAIR: MANUEL REINA

- **Roger Gomis** (Institute for Research in Biomedicine of Barcelona, Barcelona, Spain)

“Mechanism of tissue specific metastasis”

- **Ana Cuenda** (Centro Nacional de Biotecnología, Madrid, Spain)

“Novel signaling pathways in inflammation and cancer”

SS12. (SEBD) TISSUE HOMEOSTASIS AND REGENERATION

CHAIR: ISABEL FARIÑAS

- **Irene Miguel – Aliaga** (Imperial College London, UK)

“Sex differences in adult organ size and plasticity”

- **Cedric Banplain** (Université Libre de Bruxelles, Belgium)

“Epithelial stem cells during homeostasis and repair”

18.30
19.00



COFFEE OR SOFT DRINKS

19.00
20.00

BUSINESS SEG
BUSINESS SEBC
BUSINESS SEBD

20.00
21.30



GALA DINNER

9.30
11.00

S5 (SEG/SEBD/SEBC) PLANT BIOLOGY

CHAIR: PILAR S. TESTILLANO / CO-CHAIR: REYES RONCERO

■ Antonio di Pietro (Universidad de Córdoba, Spain)

"Learning to live with the host: molecular adaptation in plant pathogens"

■ Enrico Coen (John Innes Centre, Norwich, UK)

"Resolving conflicts: Genetic control of tissue morphogenesis"

■ Salomé Prat (Centro Nacional de Biotecnología, Madrid, Spain)

"Control of plant architecture by light and temperature signals"

11.00
11.30



COFFEE BREAK

11.30
13.00

CLOSING LECTURE

CHAIR: ALBERTO FERRÚS



■ Tomas R. Lindahl (Francis Crick Institute, London, UK)

"DNA Fragility and Repair of Endogenous DNA Damage"

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AWARD SESSION