

COMMITTEES

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INFO GENERAL:

TECHNICAL SECRETARIAT TIMETABLE:

Monday 13th October 2014:	09:00 - 20:00 h.
Tuesday 14th October 2014:	08:00 - 20:00 h.
Wednesday 15th October 2014:	08:00 - 20:00 h.

VENUE:

Hotel Rafael Atocha
C/ Méndez Álvaro, 30. 28045 Madrid, España
Teléfono:+34 914 68 81 00

CONGRESS LANGUAGE:

Congress oficial language is English

ASSISTANCE CERTIFICATES:

Will be send by email after the congress

CONGRESS SECRETARIAT:

Tilesa Kenes Spain

c/ Londres, 17 - 1º • 28028 Madrid

Telf.: +34 91 361 2600 • Fax: +34 91 355 9208

PROGRAMME

MONDAY 13th OCTOBER 2014

09:50 WELCOME ADDRESS

10:00-13:00 **WORKSHOP:**

Room Prado

REGULATORY LOGIC OF DEVELOPMENTAL SYSTEMS

Organizers:

Fernando Casares. *Centro Andaluz de Biología del Desarrollo, Sevilla, España*

Jordi García-Fernández. *Universitat de Barcelona, Barcelona, España*

James Sharpe. *Centre de Regulació Genòmica, Barcelona, España*

10:00-10:15 **Modelling regulatory networks in limb development**

James Sharpe. *Centre de Regulació Genòmica, Barcelona, España*

10:15-10:30 **Quantifying and modelling patterned cell fate determination in butterfly wings**

Filipa Alves. *Instituto Gulbenkian de Ciência, Oeiras, Portugal*

10:30-10:45 **Quantitative regulatory mechanisms for system drift in the dipteran gap gene network**

Karl Wotton. *Centre de Regulació Genòmica, Barcelona, España*

10:45-11:00 **Logical modelling of pattern formation**

Claudine Chaouiya. *Instituto Gulbenkian de Ciência, Oeiras, Portugal*

11:00-11:15 **Cis-regulatory logic of the Dorso-Ventral selector gene apterous in the wing disc of Drosophila**

Carlos Estella. *Centro de Biología Molecular "Severo Ochoa", Madrid, España*

11:15-11:30 **BREAK**

- 11:30-12:00** **Sensitivity to initial conditions during *Drosophila* eye growth introduced by differentiation dynamics**
Max Sánchez. *Centro Andaluz de Biología del Desarrollo, Sevilla, España*
- 12:00-12:15** **On the engineering of cellular decisions**
Juan Poyatos. *Centro Nacional de Biotecnología, Madrid, España*
- 12:15-12:30** **Circuit design for inner ear hair cell patterning by Notch signaling**
Marta Ibañes. *Universitat de Barcelona, Barcelona, España*
- 12:30-12:45** **Transformation of skeletal patterns from fins into limbs through a mode change of turing mechanism**
Koh Onimaru. *Centre for Genomic Regulation, Universitat Pompeu Fabra, 08003 Barcelona, España*
- 12:45-13:00** **A Branching Process to characterize the dynamics of stem cell differentiation**
Jordi García Ojalvo. *Universitat Pompeu Fabra, Barcelona, España*

10:00-13:00

WORKSHOP:

Room
Castellana

STEM CELLS & NICHES

Organizers:

Simon Méndez-Ferrer. *CNIC, Madrid, España*

Salvador Aznar-Benitah. *Instituto de Investigación Biomédica, Barcelona, España*

Cell fate specification through variation of Polycomb complexes

Luciano Di Croce. *Centre de Regulació Genòmica, Barcelona, España*

Environmental sensing by haematopoietic cells

Henrique Veiga Fernandes, *DVM, PhD. Instituto de Medicina Molecular, Facultad de Medicina, Lisboa, Portugal*

16:00-16:15 WELCOME CEREMONY

16:15-20:00 SYMPOSIUM:

Room Atocha

MORPHOGENESIS & ORGANOGENESIS

16:15-17:00 Tissue interactions that control cell migration and emt during organogenesis

Yoshiko Takahashi. *University of Kioto, Japan*

17:00-17:30 Terminating cell movements is essential in the establishment of left-right asymmetry

Leonor Saude. *Instituto de Medicina Molecular, Lisbon, Portugal*

17:30-17:45 Does stopping left-right nodal flow mirror the lack of mechanosensation in the left-right organizer?

Ana Raquel Jacinto. *Centro de Estudos de Doenças Crónicas, Universidade Nova de Lisboa, Portugal*

17:45-18:00 Left-right asymmetric planar cell polarity controls directional cell migration in epithelial morphogenesis

Erina Kuranaga. *Laboratory for Histogenetic Dynamics, RIKEN CDB, Kobe, Japan*

18:00-18:30 COFFEE BREAK

18:30-19:00 The heartbeat as a trigger for epicardium morphogenesis

Nadia Mercader. *Centro Nacional de Investigaciones Cardiovasculares, Madrid, España*

- 19:00-19:30** **Sp6 And Sp8 Control Aer Formation And Dorsoventral Patterning In Limb Development**
Marián Ros. *Instituto de Biomedicina y Biotecnología de Cantabria, Santander, España*
- 19:30-20:00** **Cell-cell and cell-matrix communication events shape epaxial skeletal muscle development**
Solveig Thorsteinsdottir. *University of Lisbon, Portugal*
- 20:00-20:15** **In vivo collective cell migration requires an Ipar2-dependent increase in tissue fluidity**
Sei Kuriyama. *University College London, London, United Kingdom*
- 20:00-21:30** **WELCOME RECEPTION**

TUESDAY 14th OCTOBER 2014

- 09:10-11:00** **SYMPOSIUM:**
Room Atocha **SYSTEMS BIOLOGY & GENOMICS**
- 09:00-09:30** **Why are individuals different?**
Ben Lehner. *Centre de Regulació Genòmica, Barcelona, España*
- 09:30-10:00** **Transcription-balancing sequences (TRABS) and promoter-enhancer specificity in the Mrf4/Myf5 locus**
Jaime Carvajal. *Grupo de Embriología Experimental, Centro Andaluz de Biología del Desarrollo. Consejo Superior de Investigaciones Científicas, España*

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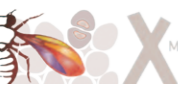
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- 10:00-10:30** **Uncovering human neural crest enhancers and its implications for human neurocristopathies**
Álvaro Rada-Iglesias. *Center for Molecular Medicine Cologne, Germany*
- 10:30-10:45** **Functional genomics in amphioxus sheds light on the evolution of vertebrate regulatory landscapes**
Ignacio Maeso. *Centro Andaluz de Biología del Desarrollo. Consejo Superior de Investigaciones Científicas. Universidad Pablo de Olavide, Sevilla, España*
- 10:45-11:00** **Analysis of opo cis-regulatory landscape uncovers an early role for vsx2 during optic cup morphogenesis in zebrafish**
Ines Rodrigues. *University of Algarve. Centro Andaluz de Biología del Desarrollo, Sevilla, España*

11:00-11:30 **COFFEE BREAK**

11:30-13:00 **SYMPOSIUM:**

Room Atocha **EVOLUTION & DEVELOPMENT**

- 11:30-12:00** **What is the difference between regenerative and non-regenerative animals?**
Kiyokazu Agata. *University of Kioto, Japan*
- 12:00-12:30** **How Animals Emerged? A Genomics and Cell Biology Perspective**
Iñaki Ruiz-Trillo. *Institut de Biologia Evolutiva, Consejo Superior de Investigaciones Científicas. Universitat Pompeu Fabra, Barcelona, España*



12:30-12:45 Easiliy changed early embryogenesis?

Irie Naoki. *University of Tokyo, Tokyo, Japan*

12:45-13:00 Molecular patterning of amphioxus central nervous system reveals unexpected evolutionary relationships between midbrain and diencephalon Anfxioxo CNS

Beatriz Albuixech. *Escuela de Biología, Universidad de Barcelona, Barcelona, España*

13:00-15:00 POSTER SESSION I

1. Morphogenesis & Organogenesis
2. Systems Biology & Genomics

15:00-15:30 SPONSOR SLOT

15:30-17:00 POSTDOC SYMPOSIUM

Room Atocha

SEBD Neuroendocrine control of drosophila behavior

Francisco Martin. *Institute de Biology Valrose, Universite Sophie, Antipolis, Nice, France*

Early heterogeneity of the preplacodal domain in the chick embryo

Luisa Sánchez-Arrones. *Centro de Biología Molecular Severo Ochoa. Consejo Superior de Investigaciones Científicas. Universidad Autónoma de Madrid, Madrid, España*

SPBD A novel protein complex involved in the control of retinoic acid signalling and embryonic symmetry

Goncalo Neto. *Institut de Génétique et de Biologie Moléculaire et Cellulaire, Illkirch, France*

Cis-regulatory basis of transcriptional divergence between recent gene duplicates

Kohtaro Tanaka. *Instituto Gulbenkian de Ciência, Oeiras, Portugal*

JSDB

Mechanics of epithelial invagination: morphogenetic forces and stabilization of tissue architecture

Takefumi Kondo. *RIKEN Center for Developmental Biology, Kobe, Japan*

Molecular analyses by a dual mechanism for germ cell specification in the ascidian, *Ciona intestinalis*

Maki Shirae. *Nagoya University, Nagoya, Aichi, Japan*

17:00-17:30 COFFEE BREAK

17:30-18:45 EMBO PLENARY LECTURE

Room Atocha

MECHANISMS OF HOX GENES COLLINEAR TRANSCRIPTION

Denis Duboule. *University of Geneva and EPFL Lausanne, Switzerland*

19:00-20:00 GENERAL ASSEMBLIES SEBD AND SPBD

WEDNESDAY 15th OCTOBER 2014

09:00-11:30 SYMPOSIUM:

Room Atocha

DEVELOPMENT & DISEASE

09:00-09:30 Drug-screening and phosphoproteomic analysis in a *Drosophila* Notch-Pten cancer paradigm identify a link between diabetes type 2 and cancer

María Domínguez. *Instituto de Neurociencias, Alicante*

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- 09:30-10:00** **Muscle stem cell decline with aging**
Pura Muñoz. *Universidad Pompeu Fabra e ICREA, Barcelona*
- 10:00-10:30** **Notch signalling decides about cilia motility in the left-right organizer**
Susana Lopes. *Centro de Estudos de Doenças Crónicas, Faculdade de Ciências Médicas, Universidade Nova de Lisboa, Portugal*
- 10:30-10:45** **A novel function of the hippo signaling pathway in asymmetric cell division**
Ana Carmena. *Instituto de Neurociencias, Consejo Superior de Investigaciones Científicas, Universidad Miguel Hernández, Alicante, España*
- 10:45-11:00** **Troponin-I is a novel oncogene that localizes apico-basal polarity signals**
Sergio Casas. *Instituto Cajal. Consejo Superior de Investigaciones Científicas, Madrid, España*

11:00-11:30 **COFFEE BREAK**

11:30-13:00 **SYMPOSIUM:**

Room Atocha

STEM CELLS & REPROGRAMMING

- 11:30-12:00** **In vivo reprogramming and totipotency**
Manuel Serrano. *Centro Nacional de Investigaciones Oncológicas, Madrid, España*
- 12:00-12:30** **Wnt signaling dynamics and activity during somatic cell reprogramming**
María Pia Cosma. *Centre de Regulació Genòmica, Barcelona. Institució Catalana de Recerca i Estudis Avançats, Barcelona, España*

12:30-12:45 **Retinoic Acid is essential for inner ear and lateral line hair cell regeneration**
Davide Rubbini. *Universitat Pompeu Fabra, Barcelona, España*

12:45-13:00 **Nanog beyond pluripotency**
Julio G. Sainz de Aja. *Centro Nacional de Investigaciones Cardiovasculares, Madrid, España*

13:00-15:00 **POSTER SESSION II**

3. Evolution & Development
4. Development & Diseases
5. Stem Cells & Reprogramming
6. Miscellanea

15:00-19:40 **SPECIAL SYMPOSIUM:**
Room Atocha **MADRID FLIES-AN HOMAGE TO GINES MORATA**

15:00-15:05 **Foreword**
Angela Nieto. *SEBD President*

15:05-15:20 **Ginés Morata: a personal view on his career and contribution to Developmental Biology in Spain**
Ernesto Sánchez-Herrero. *Centro de Biología Molecular "Severo Ochoa", Madrid, España*

15:20-15:50 **A man who knows no boundaries**
Peter Lawrence. *University of Cambridge, United Kingdom*

15:50-16:20 **Tissue homeostasis and morphogenesis, linked by the matrix**
Acaimo González-Reyes. *Centro Andaluz de Biología del Desarrollo, Sevilla, España*

16:20-16:50 **The ISDB-MOD lecture**
Tom Kornberg. *University of California, San Francisco, United States*

16:50-17:15 **COFFEE BREAK**

17:15-17:45 **Polycomb Response Elements and the Compartment Hypothesis**
Gary Struhl. *Columbia University, New York, United States*

17:45-18:15 **Tracheal adult progenitor cells and the Bithorax Complex**
Jordi Casanova. *Institut de Biologia Molecular de Barcelona. Consejo Superior de Investigaciones Cientificas. Institute for Research in Biomedicine, Barcelona, España*

18:15-18:30 **Signaling by apoptotic cells: a story about loquacious dying cells, unexpected results and Ginés Morata**
Ainhoa Pérez-Garijo. *Howard Hughes Medical Institute. The Rockefeller University, United States*

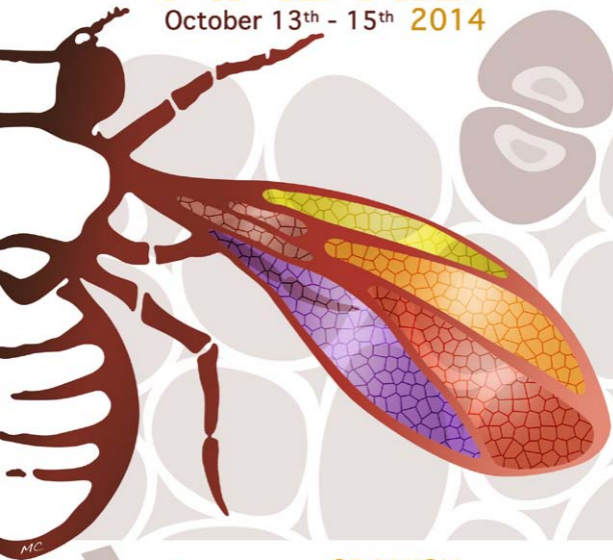
18:40-19:40 **Genetic mosaics, compartments, cell competition, tumors; a linked history**
Ginés Morata. *Centro de Biología Molecular "Severo Ochoa", Madrid, España. Introduced by Pat Simpson. University of Cambridge, United Kingdom*

19:40

CONCLUDING REMARKS AND FAREWELL

MADRID

October 13th - 15th 2014



X MEETING

SPANISH
SOCIETY FOR
DEVELOPMENTAL
BIOLOGY



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