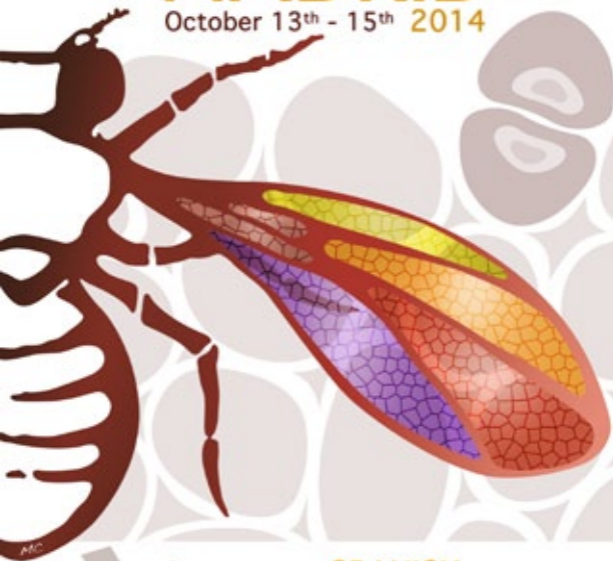


# MADRID

October 13<sup>th</sup> - 15<sup>th</sup> 2014



X MEETING

SPANISH  
SOCIETY FOR  
DEVELOPMENTAL  
BIOLOGY



SEBD [www.sebd2014.com](http://www.sebd2014.com)





## COMMITTEES

### SEBD BOARD OF DIRECTORS

- President:** Ángela Nieto. *IN. Alicante*
- Secretary:** Miguel Manzanares. *CNIC. Madrid*
- Treasurer:** Paola Bovolenta. *CBMSO. Madrid*
- Members:** Amelia Aránega. *University of Jaén*  
James C-G Hombría. *CABD. Sevilla*  
Jordi García-Fernández. *UB, Barcelona*  
Acaimo González-Reyes. *CABD. Sevilla*  
María Ángeles Ros. *IBBTEC. Santander*

### LOCAL ORGANIZER COMMITTEE

- Miguel Manzanares. *CNIC. Madrid*
- Paola Bovolenta. *CBM. Madrid*
- Amelia Aránega. *University of Jaén*
- Solveig Thorsteinsdattir. *University of Lisbon. Portugal*

## INFO GENERAL:

---

### TECHNICAL SECRETARIAT TIMETABLE:

<b>Monday 13<sup>th</sup> October 2014:</b>	09:00 - 20:00 h.
<b>Tuesday 14<sup>th</sup> October 2014:</b>	08:00 - 20:00 h.
<b>Wednesday 15<sup>th</sup> October 2014:</b>	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 13<sup>th</sup> 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 14<sup>th</sup> 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*



- 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**  
Inés 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** **Easily 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 Anfxoxo 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 Martín. *Institute de Biology Valrose, Université 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 15<sup>th</sup> 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*

- 
- 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 GINÉS MORATA**

**15:00-15:05** **Foreword**  
Ángela 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**

## SPONSORS

---

Fundación **BBVA**

