

Latin American Developmental Biology Conference

17 – 20 March 2024 | Valparaiso, Chile

Organizers

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Universidad de Chile, CL

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Universidad de Concepción, CL

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Co-organizers

(Scientific Committee)

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California Institute of Technology, US

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Alfonso Martinez-Arias

Universitat Pompeu Fabra, ES

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Universidade de São Paulo, BR

Speakers

Laure Bally-Cuif

Institut Pasteur, FR

Elvan Boke

Centre for Genomic Regulation, ES

Marianne Bronner

California Institute of Technology, US

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Marcos Simoes-Costa

Harvard University, US

Ben Steventon

University of Cambridge, UK

Pavel Tomancak

MPI-CBG, DE

Alexander Vargas

Universidad de Chile, CL

Registration

Abstract submission deadline

30 November 2023

Undergraduate student

130 USD

Graduate student (non-member/member)

200/150 USD

Postdoc (non-member/member)

250/200 USD

Academic (non-member/member)

450/350 USD

Industry

780 USD

Contact

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#EMBOdevBio

meetings.embo.org/event/24-dev-bio



LATIN AMERICAN DEVELOPMENTAL BIOLOGY CONFERENCE

17-20 March 2024 | Valparaíso, Chile

PROGRAMME OUTLINE

DAY 1: Sunday March 17th

09.00-13.00 Registration

11.00-12.00

Open Lecture (EMBO Global Lecture)

Chair: Verónica Palma

El embrión humano: entre el mito y la realidad

Alfonso Martínez-Arias

13.40-14.10

Welcome by Conference Organisers and Presidents of Organising Societies

14.10-15.00

SBDCh Luis Izquierdo Memorial Lecture (EMBO Global Lecture)

Chair: Miguel Concha (SBDCh President)

Developmental and evolutionary insights from gastruloids

Alfonso Martínez-Arias

Session 1: Self-organisation and patterning

Chairs: Liz Robertson, Pablo Wappner

15.00-15.30

Multi-scale control of pattern regulation during body axis elongation

Ben Steventon

15.30-15.45

The transcription factor Oct6 regulates the dissolution of the naive pluripotent state by inhibiting Nanog and inducing differentiation-associated transcription factors (short talk)

Ariel Waisman

15.45-16.00

Mixed clonal/aggregative multicellularity is impacted by extreme salinity fluctuations in an animal close-relative (short talk)

Josean Reyes Rivera

16.00-16.30 Coffee Break

16.30-17.00

Critical points in embryonic tissue organisation (online talk)

Nicoleta Petridou

17.00-17:15

Cell Recruitment, a Developmental Mechanism for Robust Patterning (short talk)

Marycruz Flores-Flores

17.15-17.45

Collective rhythms and patterning in vertebrate embryonic segmentation

Luis Morelli

17.45-18:00

Flash talks (1 - 7) **Arthur Roque, Joaquin Smucler, Ignacio Casanova-Maldonado, Marcos Wappner, Natalia Sánchez, Felipe Aurelia, Santiago Bosch**

18.00-18.30 Coffee Break

LASDB Award Lecture Series

Chair: Juan Riesgo (LASDB President)

18.30-19.10

LASDB Young Investigator Award Lecture

Unveiling neural crest-placode condensation during Trigeminal Ganglion Formation: The Crucial Role of microRNAs and extracellular vesicles

Pablo Strobl-Mazzulla

19.10-20.00

LASDB Lifetime Achievement Award Lecture

Morphogen gradients in Xenopus development

Eddy de Robertis

20.00-21.30

Opening reception

22:00- (Board meeting LASDB @ IBIS)

DAY 2: Monday March 18th

09.00-09.50

ISD Jean Brachet Memorial Lecture (EMBO Global Lecture)

Chair: Richard Behringer (ISD President)

Unravelling the Wonders of Neural Crest Migration

Roberto Mayor

Session 2: Morphogenesis and tissue mechanics

Chairs: Loydie Jerome-Majewska, Daniel Ríos

09.50-10.20

Morphogenetic origin of asymmetry in the embryonic zebrafish brain

Miguel Concha

10.20-10.35

3D cellular morphodynamics reveals divergent mechanisms of gastrulation in insects (short talk)

Margherita Battistara

10.35-10.50

The role of the Integrin complex in the coordination of tracheal and epidermal remodeling during Drosophila embryogenesis (short talk)

Luis Eduardo Sánchez-Cisneros

10.50-11.20 Coffee Break

11.20-11.50

Evolution of Morphogenesis (EMBO Global Lecture)

Pavel Tomancak

11.50-12.05

Effect of muscle activity in the development of the morphology of the chicken humerus (short talk)

José Antonio Palma Liberona

12.05-12.35

Coping with Mechanical Stress: Tissue dynamics during development, homeostasis and repair (EMBO Young Investigator Lecture)

Yanlan Mao

12.35-12.50

Flash talks (8 - 13) Federico Rovner, Daniela Zurita-Paredes, Manuela Franco, Silvia Toloza, Elisabeth Rodriguez-Salazar, Japhet Rojas

12.50-13.50 Lunch Boxes and Social Networking ("meet the unexpected")

13.50-15.50

Poster session (even numbers)

Session 3: Genomic regulation of development

Chairs: Pamela Hoodless, Flavio Zolessi

15.50-16.20

How to build a gliding mammal

Ricardo Mallarino

16.20-16.35

Cross-validation of conserved osteoblast-specific enhancers illuminates bone diseases and early skeletal evolution (short talk)

Héctor Castillo

16.35-16.50

Understanding the function of PTPRD in cortical brain development and its implications for neurodevelopmental disorders (short talk)

Gonzalo Cancino

16.50-17.20

A plant living inside a plant: the evolution and development of holoparasitism in the Apodanthaceae

Natalia Pabón-Mora

17.20-17.50

Coffee Break

17.50-18.05

The evolving BMP and Toll signaling network in insect dorsal-ventral patterning (short talk)

Helena Araujo

18.05-18.35

Spatial control of the epigenome during avian gastrulation

Marcos Simoes-Costa

18.35-18:50

Flash talks (14 - 19)

Ana Tellez, Fermín Evangelisti, Valentina Muñoz, Maria Candelaria Díaz, Maryori González, Benjamín Pérez

18.50-19.40

ISD Anne McLaren Lecture

Chair: Sally Dunwoodie (ISD President-Elect)

Evading ageing: mitochondrial and proteostatic adaptations in oocytes (EMBO Young Investigator Lecture)

Elvan Böke

19.40-20.00

Plenary meeting of LASDB (@Sala de Lectura, Parque Cultural)

20.00-

(Board meeting ISD @IBIS)

(Board meeting SBDCh)

DAY 3: Tuesday March 19th

09.00-09.50

ISDB Cells & Development Lecture

Chair: Roberto Mayor (ISDB Secretary)

Differential neural crest gene regulatory subcircuits along the body axis

Marianne Bronner

Session 4: Organ and system development

Chairs: Helena Araujo, James Briscoe

09.50-10.20

Characterization of the role of cardiac lymphatics in heart development and repair

Guillermo Oliver

10.20-10.35

Pleiotropic and cell type-specific roles of fibronectin in cardiovascular development (short talk)

Cecilia Arriagada

10.35-10.50

Morphogenesis and connectivity in developing zebrafish eyes: the role of mab2112 (short talk)
Camila Weiss-Garrido

10.50-11.20 Coffee Break

Plenary meeting SBDCh (@Sala de Lectura, Parque Cultural)

11.20-11.50

Single-cell and population mechanisms controlling adult neural stem cell maintenance

Laure Bally-Cuif

11.50-12.05

The role of Notch and Wnt signalling interaction in patterning of early inner ear (short talk)

Neelanjana Ray

12.05-12.20

Flash talks (20 - 24) Carla Competella, Bárbara Casas, Paulo Casagrande, Ariel Arévalo, Emilia Failache

12.20-13.20

Lunch Boxes and Workshops

Workshop 1: "Are we changing paradigms in developmental biology?" (Place: Sala de Lectura)

Workshop 2: "Getting funded and published in Developmental Biology: challenges and strategies" (Place: Sala de Proyección)

Workshop 3: "Women representativity and diversity in developmental biology" (Place: Sala de Estudio)

Workshop 4: "Ethics and integrity in developmental biology" (Place: Sala de Estudio)

13.20-15.20

Poster session (odd numbers)

15.20-16.20

Power Hour

Chair: Alfonso Martínez Arias

Future directions and challenges of Developmental Biology

Session 5: Regeneration, homeostasis and ageing

Chairs: Kathleen Whitlock, Peter Lwigale

16.20-16.50

Regeneration in the uterus

Kara McKinley

16.50-17.05

Autophagy regulates Notch during Drosophila blood cell differentiation (short talk)

Pablo Wappner

17.05-17.20

Maternal genetics of the oocyte-to-embryo transition (short talk)

Ricardo Fuentes

17.20-17.50

MEETING PHOTO

Coffee Break

17.50-18.20

Mechanical forces and cell adhesion in embryonic tissue clearance (online talk)

Verena Ruprecht

18.20-18.35

Unveiling the Role of dTrmO: A tRNA Methyltransferase Shaping Translation and Development in Drosophila (short talk)

Deborah Cuper

18.35-18.50

Mitochondrial function during Xenopus laevis spinal cord regeneration (short talk)

Paula Slater

18.50-19.05

The exocyst complex controls multiple events in the pathway of regulated exocytosis (short talk)

Mariana Melani

19.05-19.25

The art of optically sectioning biological samples (Zeiss)

Jacques Paysan

19.25-19.40

News from Development and The Company of Biologists

Alex Eve

19.40-20.00

Ceremony of Travel Awards

20.45-23.00

Farewell Reception “Museo Baburizza/Paseo Yugoslavo” (sponsored by Zeiss)

DAY 4: Wednesday March 20th

09.00-09.50

PASEDB Keynote Lecture

Chair: Patricia Schneider (PASEDB board)

Be fruitful and multiply: how reproductive capacity evolves (online talk)

Cassandra Extavour

Session 6: Evo-Devo

Chairs: Karen Crow, Sylvain Marcellini

09.50-10.20

More than fossils: The role of Developmental data in the puzzle of Dinosaur-Bird evolution

Alexander Vargas

10.20-10.35

Hox genes control homocercal caudal fin development and evolution (short talk)

Nicolás Cumplido

10.35-10.50

Investigating the roles of pioneer transcription factors during arthropod evolution, development and regeneration (short talk)

Rodrigo Nunes-da-Fonseca

10.50-11.20

Coffee Break

11.20-11.50

The evolution of gene regulatory networks for novel traits in Echinoderms

Verónica Hinman

11.50-12.05

Dark embryos or pale embryos: a study of the pel polymorphic allele that exclusively affects oocyte-derived pigmentation in a glass frog (short talk)

Andrés Romero-Carvajal

12.05-12.35

The small eyes of cave planarians: Repression of eye specific neoblasts as a mechanism for organ-size reduction

Federico Brown

12.35-13.05

Poster and short-talk prizes. Closing remarks.