

# V International Meeting of the Latin American Society for Developmental Biology



November 11- 15<sup>th</sup>, 2010

# LASDB

Santa Cruz · CHILE



V International Meeting of the  
Latin American Society for Developmental Biology  
November 11- 15<sup>th</sup>, 2010 Santa Cruz · CHILE

Local Organizers:

Miguel Allende · Miguel Concha · Juan Larraín



## ACKNOWLEDGMENTS



Thursday, Nov. 11<sup>th</sup>

- 15:00-18:00** Registration
- 18:00-18:05** **Welcome. Opening remarks** Chair: *Miguel Allende*
- 18:05-19:00** Stem Cells and early lineage development  
*Janet Rossant*, The Hospital for Sick Children, Toronto, Canada
- 19:00-19:55** Enhancing Mammalian Regeneration  
*Nadia Rosenthal*, EMBL Monterotondo, Italy
- 20:00-21:30** Reception Cocktail
- 21:30-23:30** Poster Session I: P-001 - P-040 / Salón Vichuquén

Friday, Nov. 12<sup>th</sup>

- 09:00-11:00** **Early Development I** Chair: *Pablo Wappner*
- 09:00-09:30 Maternal control of vertebrate development *Mary Mullins*, University of Pennsylvania, U.S.A. 9:08 → 9:34-34 39
- 09:30-10:00 piRNAs, transposon silencing and germline development *William Theurkauf*, University of Massachusetts, U.S.A. 9:40 → 10:02 → 10:05 → 10:11
- 10:00-10:30 BMPs and morphological variability in *Drosophila* *Helena Araujo*, Universidad Federal do Rio de Janeiro, Brazil. 10:10 → 10:32 → 10:35 → 10:40
- ~~10:30-10:45 Stochastic Protection Against Mutations That Cause Developmental Defects in *C. Elegans*.  
*Olivia Casanueva*, EMBL-CRG Systems Biology Unit Barcelona, Spain.~~
- ~~10:45-11:00 Go up, go down and bend: subcellular gymnastics of the chick lens placode  
*Irene Yan*, Brazil.~~ CAROL WICKING 10:40 → 11:02 → 11:05 → 11:10
- 11:00-11:30** Coffee break UNIVERSITY OF QUEENSLAND, AUSTRALIA
- 11:30-12:30** **Plenary Lecture 1** Chair: *Alvaro Glavic*
- Stem cell biology in *Drosophila*  
*Allan Spradling*; HHMI, Carnegie Institution, U.S.A.
- 12:30-14:30** Lunch

Friday, Nov. 12<sup>th</sup>

- 14:30-16:00 Early Development II** Chair: *Juan Riesgo-Escovar*
- 14:30-15:00 Calfacilitin: a novel Calcium channel modulator essential for neural plate development  
*Claudio Stern*, University College London, England.
- 15:00-15:30 From Spemann's organizer to the cellular mechanism of canonical Wnt signaling  
*Eddy de Robertis*, HHMI, University of California Los Angeles, U.S.A.
- 15:30-16:00 Early Embryonic Patterning In The Intermediate-Germ Band Insect *Rhodnius Prolixus*  
*Rolando Rivera-Pomar*, Universidad Nacional de La Plata, Argentina
- 16:00-16:30** Coffee Break
- 16:30-18:00 Morphogenesis I** Chair: *Elena Araujo*
- 16:30-17:00 Cell and tissue mechanics in zebrafish gastrulation  
*Carl Phillip Heisenberg*, Max Planck Institute, Dresden, Germany
- 17:00-17:30 Tissue Dynamics in Zebrafish Laterality organ Formation  
*Miguel Concha*, Universidad de Chile, Chile
- 17:30-18:00 Collective migration of neural crest cells: Union is Strength  
*Roberto Mayor*, University College London, England
- 18:15-19:15 LASDB Meeting**
- 19:15-20:45** Dinner on your own
- 20:45-23:00** Poster Session II: P-041 - P-081 / Salón Vichuquén

Saturday, Nov. 13<sup>th</sup>

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**09:00-10:30 Cell Signaling I**

Chair: *Mario Zurita*

09:00-09:30 Epithelial dynamics and wing morphogenesis  
*Alvaro Glavic*, Universidad de Chile, Chile

09:30-10:00 PCP signaling: from cell biology to human disease  
*John Wallingford*, HHMI, University of Texas at Austin, U.S.A.

10:00-10:15 Retrograde Trafficking Mutants Provide Novel Insight into Regulation of Hedgehog Signalling by The Primary Cilium  
*Carol Wicking*, Institute for Molecular Bioscience, The University of Queensland, Australia

10:15-10:30 Diversification of neuronal cell fates in the developing spinal cord: timing of differentiation and positionally restricted progenitors  
*Guillermo Lanuza*, Instituto Leloir, Buenos Aires, Argentina

**10:30-11:00** Coffee break

**11:00-12:30 Cell Signaling II**

Chair: *Rolando Rivera-Pomar*

11:00-11:30 *acal* and *chem*: Two new vessels in *Drosophila* embryonic dorsal closure  
*Juan Riesgo-Escovar*, Universidad Nacional Autónoma de México, México

11:30-12:00 Screen for novel regulators of the Hypoxia Inducible Factor  
*Pablo Wappner*, Instituto Leloir, Buenos Aires, Argentina

12:00-12:30 Seeing is believing: from the digital embryo to retinal stem cells (and back)  
*Joachim Wittbrodt*, University of Heidelberg, Germany

**12:30-16:00** Snack · Free time

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Saturday, Nov. 13<sup>th</sup>

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16:00-16:30 Coffee break

16:30-18:00 **Neural development**

Chair: *J. Xavier-Neto*

16:30-17:00 Geminin promotes neural fate acquisition of embryonic stem cells by maintaining chromatin in an accessible and hyperacetylated state  
*Kristen Kroll*, University of Washington Saint Louis, U.S.A.

17:00-17:30 foxD5 regulates neural ectodermal fate via both transcriptional repression and activation  
*Sally Moody*, The George Washington University, U.S.A.

17:30-17:45 Characterization Of Marcks Related Proteins (Mrp) In Zebrafish Neural Development  
*Flavio Zolessi*, Facultad de Ciencias, Universidad de la República, Uruguay

17:45-18:00 Sonic hedgehog modulates egfr-dependent proliferation of neural stem cells during mouse embryogenesis.  
*Verónica Palma*, Universidad de Chile, Chile

18:15-19:15 **Plenary Lecture 2**

Chair: *Miguel Allende*

Development rooted in interwoven networks  
*Phil Benfey*, Duke University, U.S.A.

19:15-20:45 Dinner on your own

20:45-23:00 Poster Session III: P-082 - P-123 / Salón Vichuquén

Sunday, Nov. 14<sup>th</sup>

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**09:00-10:30 Neural regeneration**

Chair: *Verónica Palma*

09:00-09:30 Mechanisms of retina regeneration

*Katia del Rio-Tsonis*, Miami University, Ohio U.S.A.

09:30-10:00 Regeneration of the tail and limbs in *Xenopus* tadpoles

*Jonathan Slack*, University of Minnesota, U.S.A.

10:00-10:30 Spinal cord regeneration in *Xenopus*

*Juan Larrain*, P. Universidad Católica de Chile, Chile

**10:30-11:00** Coffee break

**11:00-12:30 Organ formation**

Chair: *Roberto Mayor*

11:00-11:30 Retinoic acid and VEGF coordinate inner and outer coronary vessel wall morphogenesis

*J. Xavier-Neto*, University of Sao Paulo, Brazil.

11:30-12:00 Patterning of the *Xenopus pronephros*: the role of microRNAs

*Oliver Wessely*, Louisiana State University, U.S.A.

12:00-12:30 Prox1 is required for granule cell maturation and intermediate progenitor maintenance during brain neurogenesis

*Guillermo Oliver*, St. Jude Childrens Hospital, U.S.A.

**12:30-14:30** "Empanadas chilenas" Snack



Sunday, Nov. 14<sup>th</sup>

**14:30-16:30 Organ regeneration**

Chair: *Miguel Concha*

14:30-15:00 Mechanisms of cardiac regeneration in zebrafish  
*Kenneth Poss*, Duke University, U.S.A.

15:00-15:30 Reprogramming, transdifferentiation and lens regeneration in newts  
*Panagiotis Tsonis*, University of Dayton, U.S.A.

15:30-16:00 Stem cells, sex reversal and reproduction  
*Richard Behringer*, University of Texas M. D. Anderson Cancer Center, U.S.A.

16:00-16:15 Wnt/ $\beta$ -catenin signalling through *lef1* regulates zebrafish lateral line development by controlling cell proliferation in the leading edge of the primordium  
*Leonardo Valdivia*, Universidad de Chile, Chile

16:15-16:30 Inter-tissue mechanical stress affects frizzled-mediated planar cell polarity in the *Drosophila notum* epidermis.  
*Patricio Olgún*, Mount Sinai School of Medicine, U.S.A.

**16:30-17:00** Coffee Break

**17:00-18:00 Plenary Lecture 3**

Chair: *Juan Larraín*

The origin and control of stochasticity in cell fate decisions  
*Alfonso Martínez-Arias*, University of Cambridge, England

**18:00-19:00** Free time

**19:00-20:30** Dinner

**22:00-03:00** Party

Monday, Nov. 15<sup>th</sup>

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**10:00-11:30 Stem cells and regeneration I**

Chair: *Irene Yan*

- 10:00-10:30 What do we learn from the various routes that lead to head regeneration in *Hydra*?  
*Brigitte Galliot*, University of Geneva, Switzerland
- 10:30-11:00 Regeneration in Planaria  
*Alejandro Sánchez-Alvarado*, HHMI, University of Utah, U.S.A.
- 11:00-11:15 Eya1 Is Essential For Wnt/ $\beta$ -Catenin Homeostasis During Tissue Remodeling  
*Hernán López-Schier*, Laboratory of Sensory Cell Biology & Organogenesis, Centre de Regulació Genómica, Spain
- 11:15-11:30 Use Of Bioactivated Scaffolds To Enhance Vascularization During Dermal Regeneration  
*Tomás Egaña*, Dept. Plastic and Hand Surgery, Faculty of Medicine, Technical University of Munich, Germany
- 11:30-12:00** Coffee break
- 12:00-13:30 Stem cells and regeneration II**
- 12:00-12:30 Pluripotent Stem Cells from Primates for Regenerative Medicine  
*Gerald Schatten*, University of Pittsburgh School of Medicine, U.S.A.
- 12:30-13:00 Size control during axolotl tail regeneration  
*Elly Tanaka*, Center for Regenerative Therapies, Dresden, Germany
- 13:00-13:30 Genomic analyses to study regeneration in a novel model organism.  
*José E. García Arrarás*, University of Puerto Rico, Puerto Rico
- 13:30** Snack and Departure to Santiago