

**Program for the Fifth LASDB Meeting.**

Santa Cruz, Chile

November 11-15 2010

**Thursday, Nov. 11**

15:00-18:00 Registration

18:00-18:15 Welcome. Opening remarks

18:15 - 19:15

Chair: Miguel Allende

**Stem Cells and early lineage development**

Janet Rossant, The Hospital for Sick Children, Toronto, Canada

19:15 - 20:15

**TBA**

Nadia Rosenthal, EMBL Monterotondo, Italy

20:15-21:30 Reception Cocktail

21:30-23:30 Poster Session 1

**Friday, Nov. 12**

9:00-11:00 Early Development I

Chair: Pablo Wappner

9:00- 9:30     **Maternal control of vertebrate development**  
Mary Mullins, University of Pennsylvania, U.S.A.

9:30- 10:00   **piRNAs, transposon silencing and germline development**  
William Theurkauf , University of Massachusetts, U.S.A.

10:00-10:30   **BMPs and morphological variability in *Drosophila***  
Elena Araujo , Universidad Federal do Rio de Janeiro, Brazil.

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   **Short talk**  
Irene Yan, Brazil

11:00-11:30 Coffee break

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

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 **TBA**

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

20:45-23:00 Poster Session 2

## Saturday, Nov. 13

### 9:00-10:30 Cell Signaling I

Chair: Mario Zurita

9:00-9:30 **Epithelial dynamics and wing morphogenesis**

Alvaro Glavic, Universidad de Chile, Chile

9:30-10:00 **PCP signaling: from cell biology to human disease**

J. Wallingford, HHMI, University of Texas at Austin, USA

10:00-10:15 **Retrograde Trafficking Mutants Provide Novel Insight Into Regulation Of Hedgehog Signalling By The Primary Ci**

*Carol Wicking, Institute for Molecular Bioscience, The University of Queensland, Australia*

10:15-10:30 **Short talk**

Guillermo Lanuza, 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, Insituto Leloir, Argentina.

12:00-12:30 **TBA**

Joachim Wittbrodt

12:30-16:30 Lunch and free time

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

Chair: Xavier Neto

16:30-17:00 **TBA**

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, George Washington

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 **TBA**  
Verónica Palma, Universidad de 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

20:45-23:00 Poster Session 3

## **Sunday, Nov. 14**

9:00-10:30 Neural regeneration  
Chair: Verónica Palma

9:00-9:30 **Mechanisms of retina regeneration**  
Katia del Rio-Tsonis, Miami University, Ohio U.S.A.

9:30-10:00 **Stem cells, sex reversal and reproduction**  
Richard Behringer, University of Texas M. D. Anderson Cancer Center U.S.A.

10:00-10:30 **Spinal cord regeneration in *Xenopus***  
Juan Larrain, P. Universidad Católica de Chile

10:30-11:00 Coffee break

11:00-12:30 Organ formation  
Chair: Roberto Mayor

11:00-11:30 **TBA**  
J. Xavier Neto, University of Sao Paulo, Brazil.

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

12:30-14:30 Lunch

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**

P. Tsonis, University of Dayton, U.S.A.

15:30-16:00 **Regeneration of the tail and limbs in *Xenopus* tadpoles**

Jonathan Slack , University of Minnesota

16:00-16:15 **Short talk**

Leonardo Valdivia

16:15-16:30 **Short talk**

Mexico o Pato Olguín

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**

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/B-Catenin Homeostasis During Tissue Remodeling**

Hernán López-Schier, *Laboratory of Sensory Cell Biology & Organogenesis, Centre de Regulació Genòmica,; 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

Chair: Juan Larrain

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.**  
J. García Arrarás , University of Puerto Rico, Puerto Rico

13:30 Departure