# Latin American Society for Developmental Biology

**LASDB**

## LASDB MEETING 2019

October 28-31, 2019
BUENOS AIRES ARGENTINA

## Day 1: Monday - October 28th

**12:00-14:30:  REGISTRATION**

**14:45: Welcome and Introduction** (Pablo Wappner).

**15:00: ICGEB KEYNOTE LECTURE** (Chair: Nicolás Frankel).
   **Eric Wieschaus** (Nobel Laureate 1995, Princeton University).
   "Inputs, Outputs and Cell Signaling during Early Development".

### SESSION I: Tissue regeneration (Chair: Verónica Palma)

**16:00: Alejandro Sánchez-Alvarado** (Stowers Institute, USA).
   "Sources of regenerative capacity in animals".
**16:30: Valeria Canto-Soler** (University of Colorado, USA).
   "A retinal organoid view into the mechanisms of human eye development and regeneration".

### 17:00 - 17:30    COFFEE BREAK

**17:30: Maximina Yun** (CRT & Max Planck IMol Cell  and Genetics, Germany) – Short-talk.
   "Tig1, a new player in the establishment of the proximo-distal axis during salamander limb regeneration".
**17:40: Paulo Henrique Almeida Campos-Junior** (FUSão Joao Del Rei, Brazil) – Short-talk.
   "A subpopulation of bone marrow stem cells shows a primordial germ cell like phenotype and are able to give rise to oocytes in reconstituted ovaries".
**17:50: Juan Larrain** (Universidad Católica, Chile).
   "Spinal cord regeneration in the frog *Xenopus laevis*".

**18:30: Four flash talks selected from posters.**

**19:00-21:30: Cocktail Mixer, Gordon Research Conferences Reception:**
   Expanding Opportunities to Serve Latin American Scientists at the Frontiers of Science.

**LASDB**
www.lasdb-development.org
lasdb.development
@LASDB_DevBiol #LASDB2019
lasdb2019.com/LASDB2019-program

Scan to see program and poster list
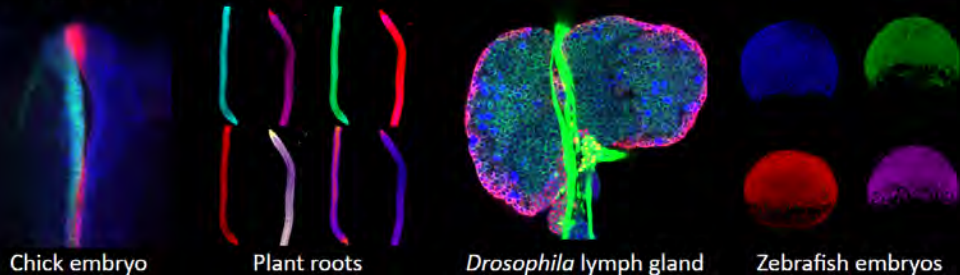
Chick embryo     Plant roots     *Drosophila* lymph gland     Zebrafish embryos

## Day 2: Tuesday - October 29th

**09:00: LASDB PRIZE LECTURE** (Chair: Eddy de Robertis and Oscar D. Perez).
**Eugenia del Pino** (Pontificia Universidad Católica del Ecuador).
"Oogenesis and development of marsupial frogs".

### SESSION II: Cell signalling (Chair: Flavio de Souza)

**10:00: Edward De Robertis** (UCLA, USA).
"Self-organizing morphogen gradients in *Xenopus*".
**10:30: Juan Riesgo-Escovar** (UNAM, Querétaro, México).
"*Drosophila* embryonic epithelial sheets in closures".

### 11:00 - 11:30    COFFEE BREAK

**11:30: Ariel Bazzini** (Stowers Institute. Kansas City, MO, USA)
"CRISPR-Cas13d *in vivo* RNA targeting to understand early embryogenesis".
**12:00: Andrés Dekanty** (Instituto de Agrobiotecnología del Litoral, Santa Fe, Argentina) – Short-talk.
"Eiger/TNFα-mediated Dilp8 and ROS production coordinate intra-organ growth in *Drosophila*".
**12:10: Sandra Edwards** (Universidad de Chile, Santiago, Chile) – Short-talk.
"Dual role of lysosomal calcium in *Drosophila* immune cells".
**12:20: Miguel Concha** (Universidad de Chile).
"Guidance of collective mesenchymal locomotion by epithelial sheet traction".
**12:50:** Four flash talks selected from posters.

### 13:00 - 15:00    LUNCH ON YOUR OWN (& LASDB Board Meeting)

### SESSION III: Organogenesis and Pattern Formation I (Chair: Nora Calcaterra)

**15:00: Angela Nieto** (Instituto de Neurociencias de Alicante, Spain).
"EMT and organ positioning in vertebrates".
**15:30: Angelica Sofia Martinez Ramirez** (Northwestern University, Chicago, USA) – Short-talk.
"Acinar cells specification and maturation requires a precise temporal expression pattern of Prox1".
**15:40: Rolando Rivera-Pomar** (Centro de Bioinvestigaciones – UNNOBA-CICBA, Argentina) – Short-talk.
"Bicaudal C is required for the proper function of the follicular epithelium in *Rhodnius prolixus*".
**15:50: Marianne Bronner** (Caltech, USA).
"Mending broken hearts with neural crest cells".
**16:20: Pablo Strobl-Mazzulla** (Intech, Chascomús, Argentina).
"Folate as a requirement in the epigenetic control of neural tube-to-neural crest fate transition".
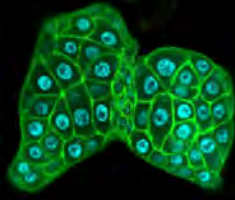**16:50: Roberto Mayor** (University College, London).
"Collective migration of neural crest cells".
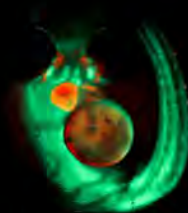
**17:20:** Four flash talks selected from posters.

**17:30-20:00:** POSTER SESSION I - odd numbers (with coffee & refreshments).

**20:00:** LASDB General Assembly.

# Buenos Aires, Argentina

*Drosophila* ring gland     Medaka embryo     Chick embryo     *A. thaliana* Pollen

## Day 3: Wednesday - October 30th

**SESSION IV: *Organogenesis and Pattern Formation II* (Chair: José García Abreu)**

**09:00: Igor Schneider** (Federal University of Pará, Brasil).
"Deep evolutionary origin of limb and fin regeneration".
**09:30: Guillermo Oliver** (Northwestern University, USA).
"Novel functional roles of the lymphatic vasculature in organ growth".
**10:00: Miguel Allende** (Universidad de Chile).
"Telling a tale of tails: The Hox13 genes and the specification of the posterior vertebrae and tail in the Zebrafish".
**10:30: Luis Morelli** (IBioBA / CONICET – Max Planck Partner Institute. Buenos Aires, Argentina) – Short-talk.
"Tissue level synchronization dynamics in the Zebrafish segmentation clock".

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

**SESSION V: *Neurogenesis* (Chair: Guillermo Lanuza)**

**11:30: Luisa Cochella** (IMP; Vienna, Austria).
"Temporal integration of transcription factors as a mechanism for neuronal diversification".
**12:00: Eduardo Bouth Sequerra** (Instituto do Cérebro, UFRN, Natal, Brazil) – Short-talk.
"A hypothesis for the origin of the antero-posteriorpattern of zika virus derived brain malformations".
**12:10: Ximena Soto** (University of Manchester, UK) – Short-talk.
"Dynamic properties of noise prevent the decoding of Her6 oscillator in Zebrafish neurogenesis".
**12:20: Flavio Zolessi** (Universidad de la Republica, Uruguay).
"Extrinsic signals acting on cell polarity transitions during neuronal differentiation in vivo".
**12:50: Delfina Romero** (Institut du Fer à Moulin, INSERM UMR-S 1270, Sorbonne University, France) – Short-talk.
"The synaptic scaffold protein Dlgap4 is important for progenitor cell function during cortical development".
**13:00: Fernanda Ledda** (Instituto Leloir, Argentina).
"New players in adult hippocampal neurogenesis".

**13:30 - 15:00    LUNCH ON YOUR OWN**

**15:00: GORDON RESEARCH CONFERENCES POWER HOUR** (Chairs: Marianne Bronner and Nancy Gray).

**SESSION VI: *Plant development* (Chair: Javier Palatnik)**

**16:00: Jorge Muschietti** (INGEBI, Buenos Aires, Argentina).
"Molecular Mechanisms of Plant Fertilization. Autocrine Control of Pollen Tube Growth".
**16:30: Jose M. Estevez** (Instituto Leloir, Buenos Aires, Argentina) – Short-talk.
"How extracellular and intracellular signals control growth in single cells in *Arabidopsis* roots".
**16:40: Jean-Philippe Vielle-Calzada** (Langebio CINVESTAV, Mexico).
"Apomixis: evolution, epigenetic control and induction".
**17:10: Gabriela Pagnussat** (Universidad de Mar del Plata, Argentina).
"A mitochondrial ADX-ADXR-P450 shuttle is essential for gametophytic steroid biosynthesis and reproduction in plants".
**17:40:** Four flash talks selected from posters.
**18:00-20:30:** POSTER SESSION II - even numbers (with coffee & refreshments).

**21:00: CONFERENCE DINNER** (Pizza, Beer and Music)
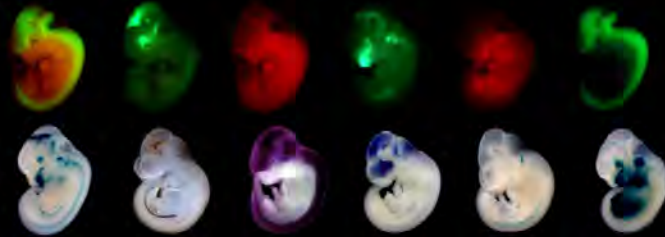
Mouse embryos
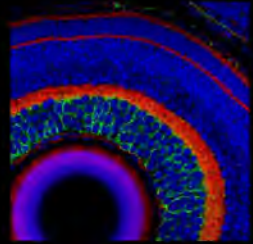
Zebrafish retina

## Day 4: Thursday - October 31st

*SESSION VII:  Early Development* (Chair: Paula Vissio)

**09:00: Darío Krapf** (Instituto de Biología Molecular de Rosario; Argentina).
"Non canonical regulation of PKA activity during sperm capacitation".
**09:30: Valeria Levi** (FCEyN, Universidad de Buenos Aires, Argentina).
"Dynamics of pluripotency transcription factors and early differentiation cues".
**10:00: Gertrude Schüpbach (**Princeton University, USA).
"A combination of genetic and quantitative approaches to early patterning events in *Drosophila*".

*SESSION VIII: Molecular physiology* (Chair: Juan Fernandino)

**10:30: Irene Miguel Aliaga** (Imperial College, London, UK).
"Sex, guts and babies: the plasticity of the adult intestine".
**11:00: Andrés Garelli** (Universidad Nacional del Sur).
"Progression through pupariation behaviours requires Dilp8-Lgr3 signalling between the epidermis and brain".

**11:45 -12:45   BRUNCH BREAK** (with 20 poster finalists)

**12:45:** Prizes to best posters presenters.

*SESSION VIII: Molecular physiology II* (Chair: Silvia Lopez)

**13:00: Rodrigo Martins** (Universidade Federal de Rio de Janeiro).
"Maintenance of genomic stability in central nervous system development".
**13:30: Michel Bagnat** (Duke University, USA).
"Phylogenetic identity of vertebral axis imparted by the notochord".

**14:00:  ISDB-MOD LECTURE** (Chair: Angela Nieto).
 **Claudio Stern** (University College London, UK).

**Closing remarks**

**DEPARTURE**