



**LATIN AMERICAN SOCIETY FOR
DEVELOPMENTAL BIOLOGY
(LASDB)
VIII MEETING**

2015

**October 20th-23rd, 2015
Santos, São Paulo
Brazil**

Committees

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José Xavier Neto
Nadia Monesi

Federico Brown (Satellite Course)

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Irene Yan
José Garcia Neto
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The organizers gratefully acknowledge the Financial Support of the following

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POSTER SESSIONS

All posters should be displayed throughout the meeting in the Conference room. **Posters SHOULD not be placed during conferences. Please use Lunch, Coffee or Dinner break times to put up your posters**

You should **hang** your poster from the hook. **DO NOT** use tapes, thumbtacks, double-sided tapes on the board.

Presentation by the authors will be organized according to the number of the poster assigned in the abstract book. The number will be on the board.

Odd numbers: Poster Session I Tuesday October 20 th , 19:00-20:00.

Even numbers: Poster Session II Wednesday October 21 st 14:00-15:00.

Please keep your poster up even if you've already presented it.

All posters have to be taken down on the evening of Thursday October 22nd.

SAFETY AND SECURITY

We are committed to make the necessary efforts to ensure a safe, productive and nice event for everyone. Please remember to take off your badge when exiting the Convention Center.

The sun in Brazil is very direct and strong – extra precautions are necessary.

Please be aware of your surroundings at all times.

Avoid display of jewelry, electronic devices or cameras. When not in use, carry your camera in your pocket and as an extra precaution, be sure to carry your bag in front of you.

Keep your passport and other important travel documents at your hotel.

Be aware of dangerous undertows if you plan to swim in the sea.

FOREIGN EXCHANGE

The Brazilian monetary unit is the Real (R\$). Exchange rates are published daily in the newspaper. Cash and traveler checks, especially US Dollars (USD), can be exchanged at most banks, exchange houses and major hotels.

Bank notes (paper money) are in denominations of R\$ 100, R\$ 50, R\$ 10, R\$ 5, R\$ 1. Coins are 1.00 real, 50 centavos (cents), 25 centavos, 10 centavos and 5 centavos. Banking Hours - 10:00-16:00 Monday to Friday

TIPPING

In most restaurants and bars, a 10% service fee is added to the bill. More sophisticated places may add 15%. If service is not included, it will be stated at the bottom of the bill: "Serviço não incluído." Hotels: Hotels generally include any service charge on the bill. Restaurants: Tips are discretionary, but often found on the final bills as a "suggestion." In Brazil, a typical tip remains 10%. Taxis: Tips are not expected by taxi drivers although most passengers will round the fare up if satisfied with the service

MEDICAL AND INSURANCE SERVICES

Santos has some hospitals, clinics and doctors, but treatment is costly, so visitors are strongly advised to take out medical trip insurance. The Congress Organization is not liable for any health problems, personal accidents, lost baggage or cancellation of travel arrangements, flights, etc. We recommend that participants provide their own insurance policies.

FOOD & DRINKS

The most common dishes feature various meats, rice and the ubiquitous Brazilian black beans (feijão), while restaurants many times offer all-you-can-eat barbecues and buffets. Many kinds of alcoholic drinks are available, including excellent lager style beers such as Antarctica, Brahma, Cerpa and Skol. The most popular local beverage is Cachaça, most commonly served as 'Caipirinha' with slices of lime or lemon. There are no restrictions on licensing hours. Soft drinks include Guarana (a carbonated cola-like drink, made from the Amazon fruit, guarana) and many varieties of fruit juices (sucos). Brazilian coffee tends to be served less strong than Italian coffee, so if stronger coffee is desired, request express coffee (café expresso). If you would like to avoid sugar in juices or coffee, you should specifically request that it not be added.

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PROGRAM-AT-A-GLANCE

	Session	20	Session	21	Session	22	Session	23
7:30-8:00				Workshop Day1 Genomic Analysis and Editing Tools (Richard Behringer) 7:30-9:30		Workshop Day2 Genomic Analysis and Editing Tools (Siobhan Brady)		
8:00-9:30								International Collaboration in Developmental Biology Ida Chow (8:00-9:30)
9:30-10:00		REGISTRATION	4	Andrea Streit	8	Maria Leptin (9:45-10:30)		Richard Behringer
10:00-10:30		REGISTRATION		Ales Cvekl		ISDB-MOD Talk	12	Billie Swalla
10:30-11:00		REGISTRATION		COFFEE		COFFEE		Linda Richards
11:00-11:30		Javier Palatnik		Chris Amemya		Lee Niswander		CLOSING CEREMONY
11:30-12:00	1	Kate Withlock	5	José Badano/Guillermo Lanuza	9	Jaime Castelli-Gair Hombría		CLOSING CEREMONY
12:00-12:30		Eddy de Robertis		Chris Lowe		Peter McCaffery		
12:30-13:00						Lunch on your own (12:30-14:00)		
13:00-13:30		LUNCH ON YOUR OWN		lunch on your own/Board Meeting				
13:30-14:00						Assembly (open to all, 13:30-14:30)		
14:00-14:30		Roberto Mayor		POSTER SESSION II				
14:30-15:00	2	Natalia Pabom/ Helena Araújo			10	Gunter Wagner		
15:00-15:30		Mike Shapiro		Maria Byrne		Tiana Kohlsdorf/Alvaro Glavic		
15:30-16:00		COFFEE	6	Juan Larrain		Wellington Cardoso		
16:00-16:30		Marianne Bronner		COFFEE		COFFEE		
16:30-17:00	3	Mirana Ramliason		Flavio Zolessi/Rodrigo Martins	11	Mario Zurita		
17:00-17:30		Nora Calcaterra	7	Wernher Fouquet (Leica)		Siobhan Brady		
17:30-18:00				YOUNG INVESTIGATOR SESSION	P2	CLOSING PLENARY		
18:00-18:30		DINNER ON YOUR OWN (17:15-19:00)				Paul Tafforeau		
18:30-19:00								
19:00-19:30		Poster Session I						
19:30-20:00								
20:00-20:30		OPENING PLENARY						
20:30-21:00	P1	Martin Chalfie						

SCIENTIFIC PROGRAM OF THE VIII LASDB MEETING

OCTOBER 20TH 2015

9:30-11:00 REGISTRATION

SESSION 1

Chair: *Flavio Zolessi (Universidad de la Republica, Uruguay)*

11:00-11:30 *Javier Palatnik (Universidad Nacional de Rosario, Argentina)*
Differential recruitment of microRNA miR396 during plant development.

11:30-12:00 *Kathleen Whitlock (Universidad de Valparaiso, Chile)*
Dissecting the division between the central and peripheral nervous system during early development.

12:00-12:30 *Eddy de Robertis (UCLA, USA)*
Integration of Wnt, FGF, BMP and TGF- β signaling in the *Xenopus* embryo.

12:30-14:00 **LUNCH ON YOUR OWN**

SESSION 2

Chair: *Lucia Elvira Álvares (Universidade de Campinas, Brazil)*

14:00-14:30 *Roberto Mayor (University College London, UK)*
Cellular and molecular mechanism of neural crest migration.

14:30-14:45 *Natalia Pabón-Mora (Universidade de Antioquia, Colombia)*
The evolution of floral and fruit developmental genetic networks.

14:45-15:00 *Helena Araújo (Universidade Federal do Rio de Janeiro, Brazil)*
BMP interactions driving the formation of epithelial structures of the *Drosophila* wing.

15:00-15:30 *Michael Shapiro (University of Utah, USA)*
Feathered feet and fancy features: genetics and development of diversity in pigeons.

15:30-16:00 **COFFEE**

SESSION 3

Chair: *Claudio Roberto Simon (Universidade Federal do Triângulo Mineiro, Brazil)*

16:00-16:30 *Marianne Bronner (CALTECH, USA)*
Gene regulatory networks underlying neural crest identity along the body axis.

16:30-17:00 *Mirana Ramialison (Australian Regenerative Medicine Institute, Australia)*
A functional genomics approach to predict novel genetic determinants for heart development and disease

17:00-17:15 *Nora Calcaterra (Universidad Nacional de Rosario, Argentina)*

Revealing the role of non-canonical forms of DNA in controlling the expression of developmentally regulated genes.

17:15-19:00 **DINNER ON YOUR OWN**

19:00-20:00 **POSTER SESSION I (ODD NUMBERS)**

20:00-21:00 **OPENING PLENARY**

Chair: José Xavier Neto (LNBio, Brazil)

Martin Chalfie (Columbia University, USA)
Determining Neuronal Fate in *C. elegans*

October 21st 2015

7:30-9:30 **WORKSHOP**

Genomic Analysis and Editing Workshop - First Session (Richard Behringer, U Texas, USA)

Breakfast will be served during the workshop for the participants.

SESSION 4

Chair: Irene Yan (Universidade de São Paulo, Brazil)

9:30-10:00 *Andrea Streit (King's College London, UK)*

Gene Networks controlling sensory placode development

10:00-10:30 *Ales Cvekl (Albert Einstein College of Medicine, USA)*

Lens development: insights from genome-wide gene expression and chromatin studies

10:30-11:00 **COFFEE BREAK**

SESSION 5

Chair: Miguel Concha (Universidade de Chile, Chile)

11:00-11:30 *Chris Amemyia (Benaroya Research Institute, USA)*

Looking for evolutionary novelty in vertebrates using comparative genomics approaches.

11:30-11:45 *José Badano (Instituto Pasteur de Montevideo, Uruguay)*

Dissecting the cellular basis of Bardet-Biedl Syndrome: The role of the BBS proteins in intracellular trafficking.

11:45-12:00 *Guillermo Lanuza (Instituto Leloir, Argentina)*

Ascl1 and Neurogenin3 specify neuronal subtype identity in the ventral neural tube

12:00-12:30 *Chris Lowe (University of Stanford, USA)*

Patterning contrasting neural architectures with deeply conserved developmental programs

12:30-14:00 **LUNCH BREAK/LASDB Board Meeting**

14:00-15:00 **POSTER SESSION II (EVEN NUMBERS)**

SESSION 6

Chair: *Federico Brown (Universidade de São Paulo, Brazil)*

15:00-15:30 *Maria Byrne (University of Sydney, Australia)*
Evolution of a pentamerous body plan insights from the *Helicodaris erythrogramma* developmental transcriptome and the echinoderm HOX cluster

15:30-16:00 *Juan Larrain (PUC Chile, Chile)*
The heterochronic gene *Lin28* regulates vertebrate metamorphosis.

16:00-16:30 **COFFEE BREAK**

SESSION 7

Chair: *Federico Brown (Universidade de São Paulo, Brazil)*

16:30-16:45 *Flávio Zolessi (Universidad de la Republica, Uruguay)*
MARCKS proteins: versatile players in the modulation of cell polarity during neural differentiation.

16:45-17:00 *Rodrigo Martins (UFRJ, Brazil)*
Maintenance of Genome Stability during Eye Development.

17:00-17:30 *Werhner Fouquet (Leica Sponsored Talk)*
The vertical turn: Leica Digital LightSheet

YOUNG INVESTIGATORS SESSION

Chair: *Cláudio Roberto Simon (UFTM)*

17:30-17:45 *German Flavio Reig (Universidad de Chile, Chile)*
Coupling of autonomous random cell migration to surface epithelial expansion drives the spreading of embryonic tissues during annual killifish epiboly.

17:45-18:00 *Hozana Andrade Castillo (LNBio, Brazil)*
Regulation of retinoic acid signaling in vertebrate development: Insights from an evolutionary-conserved enhancer in the *Raldh2* gene.

18:00-18:15 *Marcos Nahmad (Centro de Investigación y Estudios Avanzados del IPN, Mexico)*
A patterning checkpoint links growth with tissue morphogenesis in the *Drosophila* wing.

18:15-18:30 *Pablo Hernán Strobl-Mazzulla (Chascomús Institute of Technology, CONICET, Argentina)*
Epigenetic regulation of miR-203 controls neural crest migration.

18:30-18:45 *Sarah Ribeiro Milograna (Universidade de São Paulo, Brazil)*
Limb loss in snakes abolished the regulatory activity of *cns65*, an enhancer of *hoxd* gene expression during forearm development in limbed vertebrates.

October 22nd 2015

7:30-9:30 **WORKSHOP**

Genomic Analysis and Editing Tools- Second Session (Siobhan Brady, UC Davis, USA)
Breakfast will be served during the workshop for the participants.

SESSION 8

Chair: *Rodrigo Fonseca (Universidade Federal do Rio de Janeiro-Macaé, Brazil)*

9:45-10:30 *Maria Leptin (EMBO, Germany)* **ISDB-MOD Lecture**

Cell shape and morphogenesis: subcellular and supracellular mechanisms

10:30-11:00 **COFFEE BREAK**

SESSION 9

Chair: *Nadia Monesi (Universidade de São Paulo-Ribeirão Preto, Brasil)*

11:00-11:30 *Lee Niswander (University of Colorado, USA)*

Neural tube defects: using mouse to reveal molecular and cellular mechanisms of neural tube closure

11:30-12:00 *Jaime Castelli-Gair Hombria (Centro Andaluz de Biología do Desenvolvimento, Spain)*

Comparison of the trachea and the endocrine gland development of *Drosophila* as a model to study divergent evolution of organogenesis.

12:00-12:30 *Peter McCaffery (University of Aberdeen, Scotland)*

Vitamin A and the generation of new neurons in the embryonic and postnatal brain.

12:30-14:30 **LUNCH ON YOUR OWN**

13:30-14:30 **LASDB ASSEMBLY (OPEN TO ALL)**

SESSION 10

Chair: *Tiana Kohlsdorf (Universidade de São Paulo-Ribeirão Preto, Brazil)*

14:30-15:00 *Gunter Wagner (Yale University, USA)*

The Origin of Novel Cell Types: the next frontier for developmental evolution.

15:00-15:15- *Tiana Kohlsdorf (USP, Brazil)*

Why are snakes so unique? Some insights from developmental pathways.

15:15-15:30 *Álvaro Glavic (Facultad de Ciencias Universidad de Chile)*

The Levels of a Universally Conserved tRNA Modification Modulates TOR Activity and Regulates Growth.

15:30-16:00 *Wellington Cardoso (Columbia University, USA)*

Regulation of Airway Progenitor Cell Fate and Morphogenesis in the Lung.

16:00-16:30 **COFFEE**

SESSION 11

Chair: *Henrique Souza-Marques (Universidade de Campinas, Brazil)*

16:30-17:00 *Mario Zurita (UNAM, Mexico)*

Mitotic bookmarking by TFIID during zygotic genome activation in *Drosophila* indicates the existence of a transcriptional memory mechanism.

17:00-17:30 *Siobhan Brady (University of California at Davis, USA)*

How does your garden grow? Transcriptional regulation of *Arabidopsis* cell type development and metabolism.

17:30-18:30 **CLOSING PLENARY**

Chair: *José Xavier Neto (LNBio, Brazil)*

Paul Tafforeau (European Synchrotron Radiation Facility, France)

Pushing the limits of X-ray synchrotron imaging for applications in developmental biology, evolutionary biology and palaeontology

October 23rd 2015

8:00-9:30 **WORKSHOP**

International Collaboration in Developmental Biology (Ida Chow, SDB, USA)

SESSION 12

Chair: *Wellington Cardoso (Columbia University, USA)*

9:30-10:00 *Richard Behringer (University of Texas, USA)*

Reproductive Organ Development in the Mouse.

9:30-10:00 *Billie Swalla (University of Washington, USA)*

Origin, Evolution and Development of the Chordates.

10:30-11:00 *Linda Richards (University of Queensland, Australia)*

Development and function of long-distance axonal wiring in the brain

11:00-12:00 **AWARDS AND CLOSING CEREMONY**