

Abstract Book

1st INTERNATIONAL MEETING

Valle Nevado, Chile
January 15th-18th, 2003



LATIN AMERICAN SOCIETY OF DEVELOPMENTAL BIOLOGY
(SOCIEDAD LATINO AMERICANA DE BIOLOGIA
DEL DESARROLLO-LASDB)

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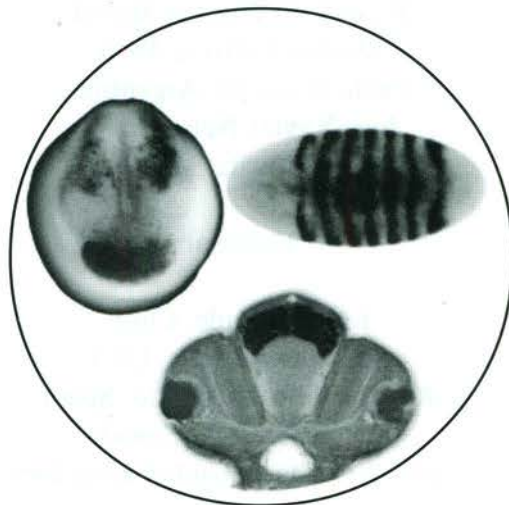
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**1st International Meeting of the
Latin American Society of Developmental Biologists**

Valle Nevado, Santiago, Chile

15th - 18th January, 2003

Program and Abstracts



ACKNOWLEDGMENTS

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CONICYT-Chile
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WELCOME

On behalf of the **Latin American Society of Developmental Biology (LASDB)**, I extend to all participants the warmest welcome to the 1st International Meeting of our newborn Society.

A group of Developmental Biologists, scientists and students, working in Latin America started some year ago a network on Developmental Biology. Now, under the stimulus of the International Society of Developmental Biology and other institutions we have constituted the LASDB. This is an "experiment" very similar to those performed by each of us in our laboratories. We have mixed "cells" from different Latin American countries and received the "inductive signals" from scientists and institutions from USA and Europe. We do not know exactly what will be the outcome of this "experiment" in the future. We hope that the LASDB will meet every two years in different Latin American countries to

get together the emergent community of developmental biologists from our countries as well as researchers from USA, Europe, etc., including scientists, professors, postdoctoral fellows, students and collaborators, to present and discuss their research. Our expectation is to stimulate and strength the collaboration and exchange of information on the research conducted by members of our society, and by the invited researchers.

We open to you the doors of our country and science in what will be a four days-long celebration with our colleagues and friends from other countries to share with us the excitement for the scientific research about the development of many different organisms. We are all convinced that Science is important to know more about us, about everything in Nature, and for the future of our countries.

I would like to thank all the persons that had the responsibility to make every effort to organize each detail of this meeting. The eventual success of this congress will be their best reward.

¡¡Bienvenidos!!

Roberto Mayor
President (interim)
Latin American Society of Developmental Biologists

PROGRAMME

MEETING PROGRAMME

HOTEL PUERTA DEL SOL, VALLE NEVADO

All talks will take place in the Video Forum

Wednesday, 15th January

- 16:15 – 16:30 Welcome, Roberto Mayor
- 16:30 – 17.30 Opening Lecture (Chair: Eddy De Robertis, USA)
John B. Gurdon (Cambridge, U.K.).
Prospects for cell replacement by nuclear transplantation and morphogen gradient interpretation.
- 17.30 – 18.00 *Coffee Break, Restaurant Puerta del Sol*
- 18.00 – 19.30 Session I (Chair: Marcelo Cabada, Argentina)
18.00 – 18.30 Scott E. Fraser (California USA)
Imaging the signals and motions that pattern the vertebrate embryo
18.30 – 19.00 Ruth Lehmann (NY, USA)
Primordial Germline development in *Drosophila*
19.00 – 19.30 David Kimelman (WA, USA)
Moving dorsally: a new role for the GSK3 binding protein
- 20.00 – 21.30 *Cocktail – Dinner, Café de la Plaza*
- 21.30 – 23.00 **Posters, Bar Hotel Puerta del Sol**

Thursday, 16th January

- 07.00 – 09.00 *Breakfast, Café de la Plaza*
- 09.00 – 13.30 Session II (Chair: Mario Zurita, México)
09.00 – 09.30 Marianne Bronner – Fraser (California, USA)
Induction of the neural crest
09.30 – 10.00 Roberto Mayor (UCH, Chile)
Early induction of neural crest
10.00 – 10.30 Angela Nieto (CSIC, Spain)
The epithelial-mesenchymal transition as an ancestral function of the snail gene family.
10.30 – 11.00 Irene Yan Chao Yun (Sao Paulo, Brasil)
F6: A novel gene acting on crest migration in *Xenopus laevis*
- 11.00 – 11.30 *Coffee Break, Bar Puerta del Sol*
- 11.30 – 12.00 Igor Dawid (NIH, USA)
Signaling events during early patterning of the zebrafish embryo
12.00 – 12.30 Ajay Chitnis (NIH, USA)
Patterning neurogenesis in the zebrafish embryo
12.30 – 13.00 Miguel Concha (UCH, Chile)
Gene and tissue interactions underlying forebrain asymmetry in zebrafish.
13.00 – 13.30 Miguel Allende (UCH, Chile)
Genetic dissection of brain patterning and sensory neuron differentiation in the zebrafish.
- 13.30 – 14.30 *Lunch, Café de la Plaza*
- 14.30 – 19.00 Session III (Chair: Juan R. Riesgo-Escovar, México)
14.30 – 15.00 Steven Burden (NY, USA)
Agrin/MuSK Signaling and Neuromuscular Synapse Formation
15.00 – 15.30 José Xavier-Neto (Sao Paulo, Brasil)
A caudal to rostral wave of RALDH2 patterns the cardiac field into inflow and outflow regions
15.30 – 16.00 Pablo Wappner (Bs. Aires, Argentina)
Control of the hypoxic response in *Drosophila* by the bHLH-PAS protein Similar

- 16.00 – 16.30 John Ewer (Cornell, USA)
Hormonal and circadian control of ecdysis in *Drosophila*
- 16.30 – 17.00 *Coffee Break, Bar Puerta del Sol*
- 17.00 – 17.30 Heiner Westphal (NIH, USA)
Transcriptional controls of early mouse development
- 17.30 – 18.00 Mario Zurita (UNAM, México)
The DNA repair/transcription factor TFIID in the fly development
- 18.00 – 18.30 Juan R. Riesgo-Escovar (UNAM, México)
The Jun-N-Termial Kinase Pathway in *Drosophila*
- 18.30 – 19.00 Ricardo G. Ramos (Sao Paulo, Brasil)
Multiple roles of the roughest cell adhesion protein during *Drosophila* development.
- 19.15 – 20.00 Session IV (Chair: Cristina Arruti, Uruguay)
- 19.15 – 20.00 Claudio Stern (UCL, UK)
Breaking symmetry: setting up axial polarity in a regulative embryo
- 20.00 – 21.30 *Dinner, Café de la Plaza*
- 21.30 – 23.00 **Posters, Bar Hotel Puerta del Sol and wine testing**

Friday 17th January

- 07.00 – 09.00 *Breakfast, Café de la Plaza*
- 09.00 – 13.30 Session V (Chair: José Xavier-Neto, Brasil)
- 09.00 – 09.30 Enrique Amaya (Cambridge, UK)
Functional genomics and genetic approaches in the frog, *Xenopus*
- 09.30 – 10.00 Ariel Ruiz i Altaba (NYU, USA)
Hedgehog-Gli signaling in the brain
- 10.00 – 10.30 José Abreu (Rio de Janeiro, Brasil)
Connective tissue growth factor modulates cell signaling by binding to BMP2/4 and TGF- β 1 in the extracellular space
- 10.30 – 11.00 Juan Larraín (PUC, Chile)
Identification of Novel Chordin-Interacting Proteins
- 11.00 – 11.30 *Coffee Break, Bar Puerta del Sol*
- 11.30 – 12.00 Carol A. Erickson (UC Davis, USA)
Specification of the Trunk Neural Crest Lineages and Consequences for Pathfinding
- 12.00 – 12.30 Judith S. Eisen (Oregon, USA)
Neuronal patterning in embryonic zebrafish
- 12.30 – 13.00 Kathleen E. Whitlock (Cornell, USA)
The olfactory sensory system: an interplay of neural crest and placodes
- 13.00 – 14.00 *Lunch, Café de la Plaza*
- 14.00- 19.00 Free afternoon
- 14.00- Sight seeing on the chair lift.
- 16.30-17.30 **LASDB meeting (members of the LASDB)**
- 19.00-20.00 Session VI (Chair: Eugenia Del Pino, Ecuador)
- 19.00-20.00 Eddy M. De Robertis (UCLA, USA)
Neural Induction in *Xenopus*
- 20.00 – 22.30 *Meeting Dinner, Restaurant La Fourchette*

Saturday, 18th January

- 07.00 – 10.00 *Breakfast, Café de la Plaza*
- Departure**