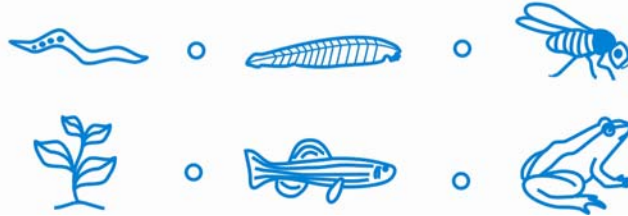




Model Organisms and
Innovative Approaches
In Developmental Biology



Pan American Advanced Studies Institute

April 27 - May 4, 2005
Juquehy, São Paulo, Brazil

*Satellite short course to the 2nd International Meeting of the
Latin American Society for Developmental Biology*

*Organizers: Ruth Lehmann (Chair, SDB President), José Xavier Neto (Local
Organizer, USP), Ida Chow (SDB) and Roberto Mayor (LASDB President)*

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Program

Day 1: Wednesday, 04/27/05

- 12:00 – 18:00 Arrival at the Juquehy Praia Hotel and Registration
19:00 – 20:30 Dinner
20:30 – 20:45 Introductory Remarks by Organizers and Dignitaries
20:45 – 21:45 Ruth Lehmann, New York University/Howard Hughes Medical Institute,
New York, USA
[*Genetic approaches to development: Drosophila as a model organism*](#)
21:45 – 23:00 Opening Reception

Day 2: Thursday, 04/28/05

- 9:00 – 10:00 Alejandra Jaramillo Universidade Federal do Rio de Janeiro (UFRJ), Rio de Janeiro, Brasil
[*Plant developmental biology*](#) (in Portuguese)
10:00 – 11:00 Maria de Nazaré do Carmo Bastos, Museu Paraense Emilio Goeldi, Belém, Pará, Brasil:
Plant biodiversity in the Amazon
11:00 – 11:30 Coffee Break
11:30 – 12:30 Practical session
[*Methods in plant evolution and development*](#)
Alejandra Jaramillo
12:30 – 14:30 Lunch
14:30 – 15:30 Nadia Monesi. Faculdade de Ciências Farmacêuticas, Universidade de São Paulo, Ribeirão Preto, Brasil.
Bradysia hygida (Diptera, Sciaridae) - a model for studying developmentally regulated gene amplification and transcription
15:30 – 16:30 Klaus Hartfelder, Faculdade de Medicina Universidade de São Paulo, Ribeirão Preto, Brasil
[*Hormones in control of growth and form - developmental plasticity and alternative phenotypes in social insects*](#)
16:30 – 17:00 Coffee Break
17:00 – 18:00 Practical Session
[*Development in Drosophila*](#)
Ruth Lehmann
18:00 – 19:00 Practical Session
Development in *Bradysia hygida*
Nadia Monesi
19:00 – 20:30 Dinner
21:00 – 22:00 Eric Moss, Department of Molecular Biology, UMDNJ, Stratford, NJ. USA.
[*Function and regulation of the microRNA target gene Lin-28 in Caenorhabditis elegans*](#)

Day 3: Friday, 04/29/05

- 9:00 – 10:00 Linda Holland, Scripps Institution of Oceanography, La Jolla, USA
Amphioxus and the evolution of axial patterning
- 10:00 – 11:00 Brad Davidson, University of California, Berkeley, USA
[Chordate heart evolution: a basal view](#)
- 11:00 – 11:30 Coffee Break
- 11:30 – 12:30 Emmanuel Dias Neto, Universidade de São Paulo, São Paulo, Brasil
[The transcriptome of *Schistosoma mansoni* – insight into the biology of a primitive metazoan](#)
- 12:30 – 14:30 Lunch
- 14:30 – 16:30 Round Table 1:
Emerging models in evolution and development
Moderators: Linda Holland & Scott Gilbert
- 16:30 – 17:00 Coffee Break
- 17:00 – 18:00 Practical Session
Eric Moss
- 18:00 – 19:00 Practical Session
Brad Davidson
- 19:00 – 20:30 Dinner
- 21:00 – 22:00 Carlos Roberto Ferreira Brandão. Museu de Zoologia, Universidade de São Paulo, Brasil.
Animal biodiversity in the Atlantic forest
- 22:00 – 24:00 Labs – odd numbers
Xenopus and anemone

Day 4: Saturday, 04/30/05

- 9:00 – 10:00 Scott Gilbert, Swarthmore College, Swarthmore, USA
How the turtle got its shell: Possible roles for FGFs and BMPs
- 10:00 – 11:00 Roberto Mayor, Universidad de Chile, Santiago, Chile
Specification of the neural crest in amphibians.
- 11:00 – 11:30 Coffee Break
- 11:30 – 12:30 Gerald Thomsen, State University of New York–Stony Brook, USA
[Classical and genetic approaches to vertebrate development using amphibians](#)
- 12:30 – 14:30 Lunch
- 14:30 – 15:30 Practical Session
Roberto Mayor
- 15:30 – 16:30 Practical Session
Linda Holland
- 16:30 – 17:00 Coffee Break
- 17:00 – 18:00 Eugênia del Pino, Pontificia Universidad Católica del Ecuador, Quito, Ecuador
[The early development of *Gastrotheca riobambae* and *Colostethus machalilla*, frogs with terrestrial reproductive modes](#)
- 18:00 – 19:00 Yolanda P. Cruz, Oberlin College, Oberlin, USA
[Using the gray opossum *Monodelphis domestica* in developmental biology investigations](#)

- 19:00 – 20:30 Dinner
 21:00 – 22:00 Scott Fraser, California Institute of Technology, Pasadena, USA
[*Multi-dimensional imaging of embryonic development*](#)
 22:00 – 24:00 Labs – even numbers
Xenopus and anemone

Day 5: Sunday, 05/01/05

- 9:00 – 13:00 Visit to Cebimar-USP in Ubatuba (Center for Marine Biology of the University of São Paulo)
 13:30 – 17:00 Lunch and return to Juquehy
 17:00 – 19:00 Poster Session I – odd numbers presentation
 Coordinators: Wellington Cardoso and Irene Yan
 19:00 – 20:30 Dinner
 20:30 – 22:00 Round Table 2:
Different Approaches to Teaching Developmental Biology
 Moderator: Ida Chow, Society for Developmental Biology, Bethesda, USA – [*Teaching developmental biology*](#)
 Discussants:
 Eugênia del Pino, Pontificia Universidad Catolica del Ecuador, Ecuador – [*Teaching developmental biology in Ecuador*](#)
 Luiz Violin, Universidade Estadual de Campinas, Brasil – [*Teaching developmental biology in Brasil*](#)
 Scott Gilbert, Swarthmore Collage, Swarthmore, USA
 Yolanda Cruz, Oberlin College, USA
 22:00 – 24:00 Labs – even numbers
[*Chick Lab*](#) – Lee Niswander

Day 6: Monday, 05/02/05

- 9:00 – 10:00 Didier Stainier, University of California – San Francisco, USA
[*Development in zebrafish, a genetic approach*](#)
 10:00 – 11:00 Miguel Concha Instituto de Ciencias Biomedicas, Facultad de Medicina, Universidad de Chile, Santiago, Chile
[*Comparative approaches to study brain laterality*](#)
 11:00 – 11:30 Coffee Break
 11:30 – 12:30 Richard Behringer, University of Texas - M D Anderson Cancer Center, Houston, USA
[*Mouse molecular genetic studies of organogenesis*](#)
 12:30 – 14:30 Lunch
 14:30 – 16:30 Free time
 16:30 – 17:00 Coffee Break
 17:00 – 18:00 Practical Session
 Didier Stainier
 18:00 – 19:00 Wellington Cardoso, Boston University School of Medicine, Boston, USA
[*Development of the lung and analogous systems*](#)
 19:00 – 20:30 Dinner
 21:00 – 22:00 Round Table 3:

Exploiting the potentials of imaging techniques in developmental biology

Moderators: Scott Fraser and Miguel Concha

22:00 – 24:00 Labs – even numbers
Chick Lab – Lee Niswander

Day 7: Tuesday, 05/03/05

9:00 – 10:00 Marianne Bronner-Fraser, California Institute of Technology, Pasadena, USA
[Formation, migration and evolution of the neural crest.](#)

10:00 – 11:00 Lee Niswander, HHMI/ U Colorado Health Sciences Center, Aurora, USA.
[Genetic and molecular control of vertebrate limb development and morphological diversity.](#)

11:00 – 11:30 Coffee Break

11:30 – 13:30 Poster Session II – even numbers presentation
Coordinators: Wellington Cardoso and Irene Yan

13:30 – 14:30 Lunch

14:30 – 16:30 Free time

16:30 – 17:00 Coffee Break

17:00 – 18:00 Nadia Rosenthal, EMBL European Molecular Biology Laboratory Mouse Biology Programme, Monterotondo-Scalo, Italy
[Prelude: Evolution and development of limb reduction in the Australian skink Hemiergis](#)

18:00 – 19:00 Practical sessions.
José Xavier Neto, Tatiana Hochgreb and Michelle Vasconcelos, Instituto do Coração – Universidade de São Paulo, Brasil
Richard Behringer, UT- MD Anderson Cancer Center, Houston, USA

20:00 – 22:30 Closing Banquet

Day 8: Wednesday – 05/04/05

9:00 – 11: 00 Round table 4:
[Genomics and Screens.](#)
Moderators: Ruth Lehmann, Eric Moss and Didier Stainier

11:00 – 11: 30 Coffee Break

11:30 – 12:30 Concluding Remarks, Poster Awards

12:30 – 15:00 Lunch and check out

15:00 Transfer to Guarujá and registration for the LASBD 2nd International Meeting.

[Instructors Contact Information](#)