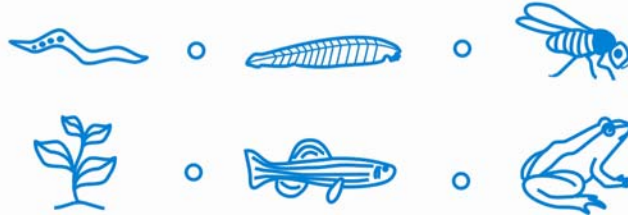




Model Organisms and  
Innovative Approaches  
In Developmental Biology



Pan American Advanced Studies Institute

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

*Satellite short course to the 2<sup>nd</sup> 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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***Model Organisms and Innovative Approaches in Developmental Biology***  
**Juquehy, São Paulo, Brazil**

**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](#)