

**Frontiers in Developmental Biology: Concepts, Techniques and Model Organisms**

**Satellite Short Course of the Fourth International Meeting of the Latin American Society for Developmental Biology**

*October 23 – November 1, 2008. Fundación Instituto Leloir, Buenos Aires, Argentina*

*Organizers: Eric Wieschaus, Pablo Wappner and Ida Chow*

**Thursday – 10/23/08**

**9:00 – 17:00**

Arrival and Registration

**17:00 – 17:30**

Introductory Remarks by Organizers and Dignitaries

**17:30 – 18:15**

**Eric Wieschaus**, Princeton University, Princeton, NJ

*“The biology of cell shape change in the early Drosophila embryo”*

**18:15 – 19:00**

**Richard Behringer**, University of Texas M.D. Anderson Cancer Center, Houston, TX

*“Developmental mechanisms of organ formation in the mouse”*

**19:00 – 20:00**

Opening Reception

**Friday – 10/24/08**

**9:30 – 10:15**

**Roberto Mayor**, University College London, London, United Kingdom

*“Role of Wnt signalling in neural crest development: from induction to migration”*

**10:15 – 11:00**

**Juan Riesgo-Escovar**, Universidad Nacional Autónoma de México-Juriquilla, Mexico

*“How aqaetzalli and ferritin affect the embryonic nervous system”*

**11:00 – 11:15**

Coffee Break

**11:15 – 12:00**

**Ruth Lehmann**, Skirball Institute / HHMI, New York, NY

*“Migration in vivo: How germ cells find their niche”*

**12:00 – 12:45**

**Pablo Wappner**, Instituto Leloir, Buenos Aires, Argentina

*“Modulation of Drosophila development by external stimuli”*

**12:45 – 14:00**

Lunch at Leloir Institute

**14:00 – 14:45**

**Siobhan Brady**, Duke University, Durham, NC

*“A systems approach to understanding root development”*

**14:45 – 16:00**

**Practical Session**

· *Cell Migration* (Lehmann)

**16:00 – 18:00**

**Poster Session I** with coffee

Odd number posters presentation

**18:00 – 21:00**

**Practical Sessions**

- *Drosophila* Group A (Wieschaus, Wappner, Riesgo-Escovar)
- *Xenopus* Group B (Aybar, Mayor)

**21:00**

Dinner in town

**Saturday – 10/25/08**

**9:00 – 12:00**

**Practical Sessions**

- *Drosophila* Group A (Wieschaus, Wappner, Riesgo-Escovar)
- *Xenopus* Group B (Aybar, Mayor)

**12:00 – 13:00**

**Practical Session**

- *Cell Migration* (Lehmann)

**13:00 – 14:00**

Lunch at Leloir Institute

**14:00 – 16:00**

**Round Table I**

*“Advantages and limitations of different model organisms in developmental biology research”*

Panelists: Roberto Mayor, Cathy Krull, Eric Wieschaus

**16:00 – 16:15**

Coffee Break

**16:15 – 17:00**

**Nibia Berois-Domenech**, Universidad de la República, Montevideo, Uruguay

*“Facing harsh environment through developmental plasticity: annual fish embryo”*

**17:00 – 20:00**

**Practical Sessions**

- *Drosophila* Group B (Wieschaus, Wappner, Riesgo-Escovar)
- *Xenopus* Group A (Aybar, Mayor)

**20:00**

Dinner in town

**Sunday – 10/26/08**

**9:00 – 15:15**

Extra-curricular activities – City tour

**15:15 – 16:00**

**Cathy Krull**, University of Michigan-Ann Arbor, MI

*“Out on a limb: Axon pathfinding in the periphery”*

**16:00 – 16:45**

**Billie Swalla**, University of Washington, Seattle, WA

*“Twisted tunicates, lucky lancelets and hopeful hemichordates: What do they tell us about the evolution of chordates?”*

**16:45 – 17:00**

Coffee Break

**17:00 – 20:00**

**Practical Sessions**

- *Tunicates* Group A (Swalla)
- *Xenopus* Group B (Aybar, Mayor)

**20:00**

Dinner in town

**Monday – 10/27/08**

**9:00 – 12:00**

**Practical Sessions**

- *Drosophila* Group B (Wieschaus, Wappner, Riesgo-Escovar)
- *Xenopus* Group A (Aybar, Mayor)

**12:00 – 12:45**

**Marianne Bronner-Fraser**, Caltech, Pasadena, CA

*“Development and evolution of the vertebrate neural crest”*

**12:45 – 14:00**

Lunch at Leloir Institute

**14:00 – 17:00**

**Practical Sessions**

- *Lamprey* Group B (Bronner-Fraser)
- *Xenopus* Group A (Aybar, Mayor)

**17:00 – 19:00**

**Poster Session II** *with coffee*

Even number posters presentation

**19:00 – 19:45**

**Miguel Allende**, Universidad de Chile, Santiago, Chile

*“mRNA expression pattern during development in zebrafish”*

**19:45 – 20:30**

**Nora Calcaterra**, Universidad Nacional de Rosario, Rosario, Argentina

*“Craniofacial development of zebrafish”*

**20:30**

Dinner in town

**Tuesday – 10/28/08**

**9:00 – 12:00**

**Practical Sessions**

- *Local fish* Group A (Berois-Domenech)
- *Zebrafish* Group B (Calcaterra, Allende)

**12:00 – 12:45**

**Alejandro Sanchez Alvarado**, University of Utah, Salt Lake City, UT

*“Regeneration: Development in the adult”*

**12:45 – 14:00**

Lunch at Leloir Institute

**14:00 – 16:00**

**Round table II**

*“Education in developmental biology”*

Panelists: Ida Chow, Eric Wieschaus, Nibia Berois-Domenech, Juan Riesgo-Escovar

**16:00 – 16:15**

**Coffee Break**

**16:15 – 17:00**

**Pablo Visconti**, University of Massachusetts, Amherst, MA

*“Fertilization”*

17:00 – 20:00

**Practical Sessions**

- *Local fish* Group B (Berois-Domenech)
- *Zebrafish* Group A (Calcaterra, Allende)

20:00

Dinner in town

**Wednesday – 10/29/08**

9:00 – 12:00

**Practical Sessions**

- *Planarian* Group A (Sanchez Alvarado)
- *Bioinformatics* Group B (Brady)

12:00 – 12:45

**Luis Mayorga**, Universidad Nacional de Cuyo, Argentina

*“Membrane fusion during the acrosomal exocytosis in human sperm”*

12:45 – 14:00

Lunch at Leloir Institute

14:00 – 17:00

**Practical Sessions**

- *Planarian* Group B (Sanchez Alvarado)
- *Bioinformatics* Group A (Brady)

17:00 – 17:30

Coffee Break

17:30 – 20:30

**Practical Sessions**

- *Fertilization* Group 1 (Visconti, Mayorga)
- *Mouse* Group 2 (Lanuza, Behringer)
- *Zebrafish - advanced* Group 3 (Calcaterra, Allende)

20:30

Dinner in town

**Thursday – 10/30/08**

9:00 – 9:45

**Rolando Rivera-Pomar**, Universidad Nacional de la Plata, La Plata, Argentina

*“Triatoma development”*

9:45 – 12:45

**Practical Sessions**

- *Fertilization* Group 1 (Visconti, Mayorga)
- *Mouse* Group 2 (Lanuza, Behringer)
- *Zebrafish - advanced* Group 3 (Calcaterra, Allende)

12:45 – 14:00

Lunch at Leloir Institute

14:00 – 14:45

**Javier Palatnik**, Universidad Nacional de Rosario, Argentina

*“Control of plant development by microRNAs”*

14:45 – 17:45

**Practical Sessions**

- *Fertilization* Group 1 (Visconti, Mayorga)
- *Mouse* Group 2 (Lanuza, Behringer)

· *Zebrafish - advanced* Group 3 (Calcaterra, Allende)

**17:45 – 18:15**

Coffee Break

**18:15 – 20:45**

**Practical Session**

· *Unconventional insects* Group A (Rivera-Pomar)

**20:45**

Dinner in town

**Friday – 10/31/08**

**9:00 – 9:45**

**Pablo Cerdán**, Instituto Leloir, Buenos Aires, Argentina

*“Regulation of flowering time”*

**9:45 – 12:45**

**Practical Sessions**

· *Arabidopsis* Group A (Yanovsky, Palatnik, Cerdán)

· *Chick* Group B (Krull)

**12:45 – 14:00**

Lunch at Leloir Institute

**14:00 – 16:00**

**Round Table III**

*“Evolution of developmental mechanism: genes and signaling pathways”*

Panelists: Billie Swalla, Miguel Allende, Marianne Bronner-Fraser, Rolando Rivera-Pomar

**16:00 – 16:15**

Coffee Break

**16:15 – 17:00**

**Luis Quesada-Allué**, Instituto Leloir, Argentina

*“Insect metamorphosis”*

**17:00 – 20:00**

**Practical Sessions**

· *Arabidopsis* Group B (Yanovsky, Palatnik, Cerdán)

· *Chick* Group A (Krull)

**20:00**

Dinner in town

**Saturday – 11/01/08**

**9:00 – 9:45**

**Marcelo Yanovsky**, Universidad de Buenos Aires, Buenos Aires, Argentina

*“Signaling circuits controlling circadian and seasonal rhythms in plants”*

**9:45 – 11:45**

**Round Table IV**

*“Communication of results and paper writing”*

Panelists: Ruth Lehmann, Richard Behringer, Marcelo Yanovsky

**11:45 – 12:15**

**Concluding Remarks and Awards Presentations**