## 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 aaquetzalli 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, Instuto 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

## <u>Saturday - 10/25/08</u>

#### 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

## <u>Sunday - 10/26/08</u>

### 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)

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

## <u>Saturday - 11/01/08</u>

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

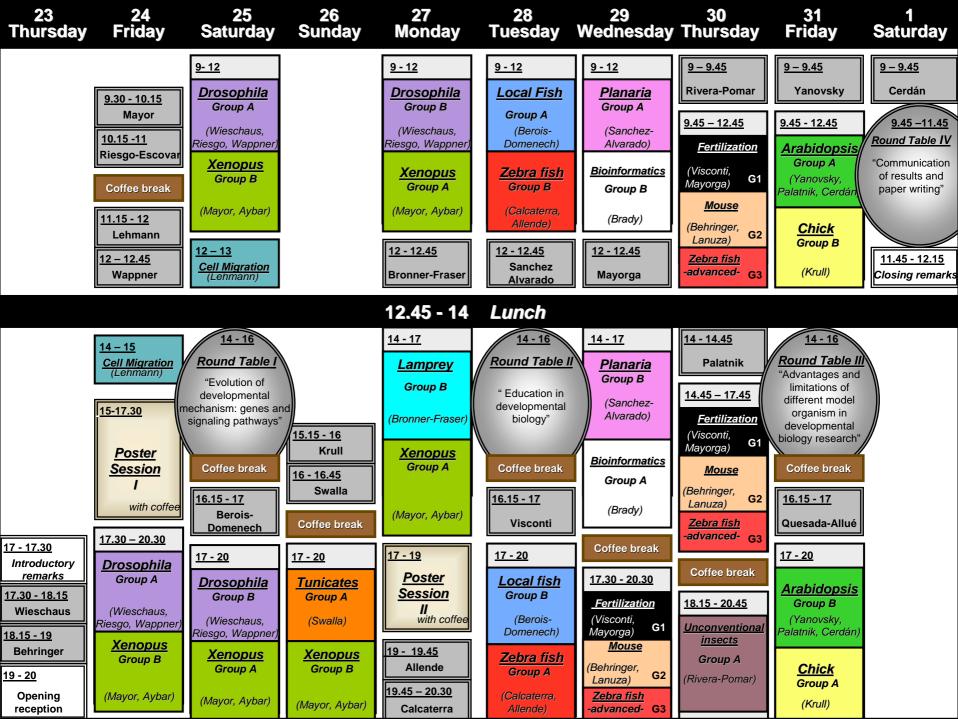
## **Round Table IV**

"Communication of results and paper writing"

Panelists: Ruth Lehmann, Richard Behringer, Marcelo Yanovsky

11:45 - 12:15

**Concluding Remarks and Awards Presentations** 

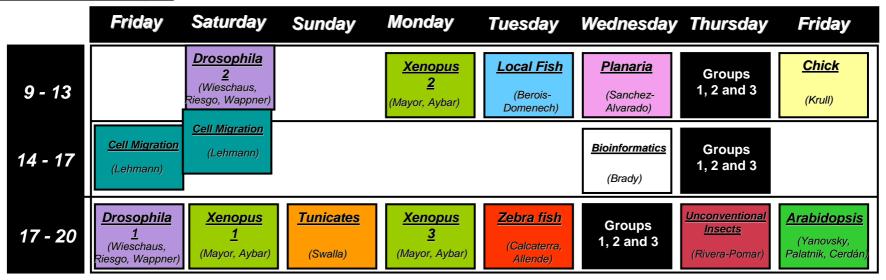


The students will be divided in two groups, **A** and **B**, each composed of 15 students. Some of the practical modules will be only for Group A or only for group B (see the scheme depicted below).

For some of the practical modules, students will be divided in three groups: Group 1 (Fertilization), Group 2 (Mouse), Group 3 (Zebra fish advanced).

Therefore each student has to choose whether to be included in group A or B and also to say if he or she would like to belong to group 1,2 or 3. Please let us know your first choice option (i.e. "I would like to be **A3**"). We will do our best to attend everyone's choices but of course this might be not possible in every case.

# Schedule for Group A



# Schedule for Group B

