

Tentative Program

Concepts and Model Organisms in Regenerative Biology

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

November 2 –11, 2010.

Facultad de Ciencias Biologicas, Pontificia Universidad Católica de Chile
and Universidad de Chile, Santiago, Chile

Organizers: Richard Harland, Ida Chow, Juan Larrain, Miguel Allende

Tuesday – 11/2/10

14:00 – 16:00 Arrival, Registration and Poster set up
16:30 – 17:00 Introductory Remarks by Organizers and Dignitaries
17:00 – 18:00 Allan Spradling, Carnegie Institution for Science, USA
Stem cell biology in Drosophila
18:00 – 21:00 Opening Reception and Poster Session I

Wednesday – 11/3/10

9:00 – 9:45 Jonathan Slack, Univ of Minnesota, USA
Tail regeneration in Xenopus tadpoles
9:45– 10:30 Juan Larrain, Pontificia Univ Catolica, Chile
Spinal cord regeneration in Xenopus
10:30 – 10:45 Coffee break
10:45 – 11:30 Alvaro Glavic, Univ de Chile, Chile
Proliferation and apoptosis in the Drosophila wing
11:30 – 12:15 Eli Tanaka, Max Planck Inst, Germany
Toward understanding tissue and positional identity of regenerating limb blastema
12:15 – 13:00 Lunch
13:00 – 16:00 Poster Session II with coffee
16:00 – 19:00 Concurrent Practical Sessions
Xenopus Group A – Harland, Larrain, Slack
Drosophila Group B – Spradling, Glavic
19:00 Dinner in town

Thursday – 11/4/10

9:00 – 9:45 Richard Harland, Univ California-Berkeley, USA
Experimental induction of mesodermal and neural cell fates in mouse and Xenopus
9:45 – 10:30 Panagiotis Tsonis, Univ of Dayton, USA
Lens regeneration in salamander
10:30 – 10:45 Coffee break
10:45 – 11:30 Ken Poss, Duke Univ, USA
Heart and fin regeneration in zebrafish
11:30 – 12:15 Miguel Allende, Univ de Chile, Chile
Regeneration of mechanosensory cells in zebrafish
12:15 – 14:00 Lunch
14:00 – 14:45 Katia del Rio-Tsonis, Miami Univ, USA
Mechanism of chick retina regeneration
14:45 – 15:30 Siobhan Brady, Univ of California-Davis
A systems approach to plant development
15:30 – 16:00 Coffee break
16:00 – 19:00 Concurrent Practical Sessions

19:00 *Xenopus Group A* – Harland, Larrain, Slack
Drosophila Group B – Spradling, Glavic
Dinner in town

Friday – 11/5/10

9:00 – 9:45 Brigitte Galliot, Univ of Geneva, Switzerland
Head regeneration in Hydra

9:45 – 12:45 Concurrent Practical Sessions
Xenopus Group B – Harland, Larrain, Slack
Drosophila Group A – Spradling, Glavic

12:45 – 14:00 Lunch

14:00 – 14:45 Kate Whitlock, Univ de Valparaiso, Chile
Plasticity in olfactory placode formation in zebrafish

14:45 – 15:30 Alejandro Sánchez-Alvarado, Univ of Utah, USA
Regeneration in Planaria

15:30 – 16:00 Coffee break

16:00 – 19:00 Concurrent Practical Sessions
Xenopus Group B – Harland, Larrain, Slack
Drosophila Group A – Spradling, Glavic

19:00 Dinner in town

Saturday – 11/6/10

9:00 – 9:45 Richard Behringer, UTSW MD Anderson Cancer Ctr, USA
Stem cells, organogenesis and regeneration

9:45 – 12:45 Concurrent Practical Sessions
Genomics A – Brady
Zebrafish Group B – Allende, Poss

12:45 – 14:00 Lunch

14:00 – 14:45 Philip Benfey, Duke Univ, USA
Development rooted in interwoven networks

14:45 – 15:30 José García-Ararrás, Univ of Puerto Rico, Puerto Rico
*Intestinal regeneration in the echinoderm *Holothuria glaberrima**

15:30 – 16:00 Coffee break

16:00 – 18:00 Roundtable discussion: *Advantages and pitfalls in regeneration research*
Panelists: Panagiotis Tsonis, Eli Tanaka, Katia Del Rio-Tsonis, Miguel Allende

18:00 Dinner in town

Sunday – 11/7/10

9:00 – 14:00 Free Time

14:00 – 14:45 Enrique Brandan, Pontif Univ Catol de Chile, Chile
Role of growth factors in myogenesis and regeneration

14:45 – 15:30 Verónica Palma, Univ de Chile, Chile
Role of Shh in mouse neural stem cells

15:30 – 16:00 Coffee break

16:00 – 19:00 Concurrent Practical Sessions
Zebrafish Group A – Allende, Poss
Genomics B – Brady

19:00 Dinner in town

Monday – 11/8/10

9:00 – 9:45 Rodrigo Gutiérrez, Pontif Univ Catol de Chile, Chile
Plant system biology

9:45 – 12:45 Concurrent Practical Sessions

Holothuria Group B – Garcia-Arrarás
Hydra Group A - Galliot
12:45 – 14:00 Lunch
14:00 – 14:45 Wrap-up discussion: *Xenopus* – Harland, Larrain, Slack
14:45 – 15:15 Coffee break
15:15 – 16:00 Wrap-up discussion: *Genomics* - Brady
16:00 – 19:00 Concurrent Practical Sessions
Plant Group A – Gutierrez
Planarian Group B – Sánchez-Alvarado
19:00 Dinner in town

Tuesday – 11/9/10

9:00 – 9:45 Cintia Niva, EMBRAPA, Brazil
Regeneration in a native species of Enchytraeids (Annelida)
9:45 – 12:45 Concurrent Practical Sessions
Mouse Group B – Behringer, Palma, Court, Olguín
12:45 – 13:30 Lunch
13:30 – 14:15 Luis Covarrubias, Univ Nac Auton de Mexico, Mexico
Neural and ear regeneration in the mouse
14:15 – 15:00 Wrap-up discussion: *Zebrafish* – Allende
15:00 – 15:15 Coffee Break
15:15 – 16:00 Wrap-up discussion: *Drosophila* – Spradling, Glavic
16:00 – 19:00 Concurrent Practical Sessions
Plant Group B – Gutierrez
Planarian Group A – Sánchez-Alvarado
19:00 Dinner in town

Wednesday – 11/10/10

9:00 – 9:45 Kristen Kroll, Washington Univ, USA
Mouse and Xenopus embryonic stem cells – a comparative study
9:45 – 12:45 Concurrent Practical Sessions
Mouse Group A – Behringer, Palma, Court, Olguín
12:45 – 13:30 Lunch
13:30 – 15:00 Roundtable discussion: *Science and ethics: On use of animals and embryonic stem cells*
Panelists: Janet Rossant, Ida Chow, Luis Covarrubias.
15:00 – 15:15 Coffee break
15:15 – 16:00 Wrap-up discussion: *Planarian* – Sanchez
16:00 – 19:00 Concurrent Practical Sessions
Hydra Group B – Galliot
Holothuria Group A – Garcia-Arrarás
19:00 Closing Banquet

Thursday – 11/11/10

9:00 – 10:30 Workshop: *Basics to set up a developmental biology course*
Panelists: Richard Harland, Kate Whitlock, Juan Larrain, Jonathan Slack
10:30 – 10:45 Coffee break
10:40 – 11:30 Janet Rossant, Hospital for Sick Children, Canada
The future of personalized stem cell medicine
11:30 – 12:00 Concluding Remarks and Poster Awards
12:00 – 13:00 Lunch and check out
15:00 Registration at LASDB 5th International Meeting