

***Evolution of regenerative abilities: recapitulation of development or novel mechanisms?***

**PROGRAM:**

12:00 **Opening Remarks** (Ricardo Zayas, San Diego State University)

**Session 1: *In vivo* cellular plasticity underlying tissue homeostasis and regeneration**

- 12:15 *Tapeworm regeneration: A gateway toward understanding stem cells in parasites*  
Tania Rozario, Postdoctoral Fellow, Morgridge Institute, University of Wisconsin-Madison
- 12:30 *Self-Repairing Symmetry in Jellyfish*  
Lea Goentoro, Assistant Professor, Caltech
- 12:45 *Cellular dedifferentiation during intestinal regeneration in echinoderms*  
José García-Arrarás, Professor, University of Puerto Rico
- 1:00 *Targeted screening to identify genes involved in hearing regeneration*  
Shawn Burgess, Senior Investigator, NIH
- 1:15 *PIWI-piRNA pathway function in the stem cells of "immortal" Hydra*  
Celina Juliano, Assistant Professor, UC Davis
- 1:30 *The planarian pharynx as a model for stem cell-driven organ regeneration*  
Carrie Adler, Assistant Professor, Cornell University

**1:45 Coffee Break**

**Session 2: Nervous system regeneration**

- 2:15 *Injury induced signals necessary for spinal cord regeneration in axolotl*  
Karen Echeverri, Assistant Professor, University of Minnesota
- 2:30 *Lessons from the lamprey on spinal cord regeneration*  
Jennifer Morgan, Associate Scientist, Associate Director of the Bell Center, MBL
- 2:45 *Nerve-derived signals regulating tissue regeneration*  
James Monaghan, Assistant Professor, Northeastern University
- 3:00 *Pomacea canaliculata: development and regeneration of complex eyes*  
Alice Accorsi, Postdoctoral Fellow, Stowers Institute for Medical Research

**Session 3: Organ and appendage regeneration**

- 3:15 *Lack of fibrosis after damage makes the spiny mouse a regenerating mammal*  
Malcolm Maden, Professor, University of Florida

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3:30 *Digit tip regeneration in mice: co-evolution of epimorphic regeneration and homeostatic repair mechanisms*

Ken Muneoka, Professor, Texas A&M

3:45 *Regenerative markers in the ROS-stressed *Xenopus laevis* heart indicate a conserved repair response*

Kyle Jewhurst, Doctoral Student, Tufts University

4:00 *Epimorphic regeneration in African spiny mice*

Ashley Seifert, Assistant Professor, University of Kentucky

4:15 *Immune control of regeneration*

Nadia Rosenthal, Professor, The Jackson Laboratory

**4:30 Closing Remarks by Organizers: Symposium End**

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