

## 2018 Schedule of Embryology Course Lectures, Labs, Faculty, and Activities

(morning and afternoon lectures are in Speck Auditorium; labs and evening lectures are 2<sup>nd</sup> floor of Loeb)

<b>Module 1: Intro, Microscopy, Tunicates, and Echinoderms (June 8 – June 16)</b>		
6/8/18 (Fri)	Welcome Reception & Dinner (7pm)	<b>Rich Schneider</b> , UCSF; <b>Dave Sherwood</b> , Duke, <i>welcome, course overview and logistics, poster session (bring your posters!)</i>
6/9/18 (Sat)	Morning lecture (9am)	<b>Andres Collazo</b> , Caltech, <b>Lisa Cameron</b> , Duke, <i>microscopy</i>
	Afternoon & evening labs	<i>light microscopy and confocal training</i>
6/10/18 (Sun)	Morning	<i>free time</i>
	Afternoon (4pm)	<i>scavenger hunt and course dinner</i>
6/11/18 (Mon)	Morning Introduction with Physiology (9am)	<b>Rae Nishi</b> (MBL Director of Education), <i>MBL Orientation: HR, IT, security, education, housing, lab safety, animal care, policies, etc.</i>
	Morning lecture (10am)	<b>Athula Wikramanayake</b> , Univ. Miami, <i>metazoan body plans</i>
	Afternoon (1pm)	<b>MRC Tour and Gemma Collecting Trip</b>
	Evening lab (7:30pm)	<b>Jon Henry</b> , Univ. Illinois, <i>tool making</i> ; <b>Andres Collazo</b> , Caltech, <b>Lisa Cameron</b> , Duke, <b>David Matus</b> , Stony Brook, <i>image acquisition</i>
6/12/18 (Tue)	Morning lecture	<b>Bob Zeller</b> , San Diego State Univ., <i>ascidian development</i>
	Afternoon & evening labs	<i>Ciona</i>
6/13/18 (Wed)	Morning lecture	<b>Billie Swalla</b> , Univ. Washington, <i>chordate evolution</i>
	Afternoon & evening labs	<i>Ciona</i>
6/14/18 (Thu)	Morning lecture	<b>Dave McClay</b> , Duke, <i>echinoderm development</i>
	Afternoon & evening labs	<i>sea urchins</i>
	Evening lecture (8pm)	<b>David Matus</b> , Stony Brook, <i>cell cycle regulation in morphogenesis</i>
6/15/18 (Fri)	Morning lecture	<b>Cindi Bradham</b> , Boston Univ., <i>echinoderm development</i>
	Afternoon & evening labs	<i>sea urchins</i>
6/16/18 (Sat)	Morning lecture	<b>Veronica Hinman</b> , Carnegie Mellon, <i>sea star development</i>
	Afternoon & evening labs	<i>sea urchins</i>
<i>Things to do this week: T-shirt design for class, softball t-shirt, parade committee</i>		

<b>Module 2: Hydra, Planaria, Acoels, Tardigrades, and Nematodes (June 17 – June 23)</b>		
6/17/18 (Sun)	All day	<i>free time</i>
6/18/18 (Mon)	Morning lecture	<b>Brigitte Galliot</b> , Univ. Geneva, <i>hydra development &amp; regeneration</i>
	Afternoon & evening labs	<i>hydra</i>
6/19/18 (Tue)	Morning lecture	<b>Alejandro Sanchez Alvarado</b> , Stowers Inst., <i>planaria &amp; regeneration</i>
	Afternoon & evening labs	<i>planaria</i>
	Evening lecture (8pm)	<b>Mansi Srivastava</b> , Harvard, <i>acoelomate development &amp; regeneration</i>
6/20/18 (Wed)	All day labs	<i>acoelomates, planaria, and hydra</i>
	Evening lecture	<b>Bob Goldstein</b> , UNC Chapel Hill, <i>tardigrades</i>
6/21/18 (Thu)	Morning lecture	<b>Dave Sherwood</b> , Duke, <i>C. elegans cell behavior &amp; morphogenesis</i>
	Afternoon & evening labs	<i>C. elegans</i>

6/22/18 (Fri)	Morning lecture	<b>Susan Strome</b> , UC Santa Cruz., <i>germ cell development</i>
	Afternoon & evening labs	<i>C. elegans and tardigrades</i>
6/23/18 (Sat)	Morning lecture	<b>Bob Goldstein</b> , UNC Chapel Hill, <i>early C. elegans development</i> <b>Amy Maddox</b> , UNC Chapel Hill, <i>germline development</i>
	Afternoon & evening labs	<i>C. elegans and tardigrades; show n' tell 1 (8pm)</i>

<b>Module 3: Chicks &amp; Mice (June 24 – June 30)</b>		
6/24/18 (Sun)	All day	<i>whale watching in Provincetown</i>
6/25/18 (Mon)	Morning lecture	<b>Andrea Streit</b> , Kings College London, <i>chick development</i>
	Afternoon & evening labs	<i>chicks</i>
	Evening lecture (8pm)	<b>Marianne Bronner</b> , Cal Tech, <i>gene regulatory networks</i>
6/26/18 (Tue)	Morning lecture	<b>Richard Behringer</b> , Univ. Texas/MD Anderson, <i>mouse development</i>
	Afternoon & evening labs	<i>mice</i>
6/27/18 (Wed)	Morning lecture	<b>Claudio Stern</b> , Univ. College London, <i>chick neural development</i>
	Afternoon & evening labs	<i>chicks, mice</i>
6/28/18 (Thu)	Morning lecture	<b>Eric Wieschaus</b> , Princeton Univ., <i>pattern formation</i>
	Afternoon & evening labs	<i>chicks, mice</i>
6/29/18 (Fri)	Morning lecture	<b>Paul Trainor</b> , Stowers Inst., <i>craniofacial development &amp; disease</i>
	Afternoon & evening labs	<i>chicks, mice</i>
6/30/18 (Sat)	Morning lecture	<b>Rich Schneider</b> , UCSF, <i>craniofacial development &amp; evolution</i>
	Afternoon & evening labs	<i>chicks, mice</i>

<b>Module 4: Zebrafish &amp; Frogs (July 1 – July 7)</b>		
7/1/18 (Sun)	Morning and afternoon	<i>free time</i>
	Evening lecture (8pm)	<i>zebrafish lab orientation</i>
7/2/18 (Mon)	Morning lab (9am)	<i>zebrafish development</i>
	Afternoon lecture (1pm)	<b>Tatjana Piotrowski</b> , Stowers Inst., <i>lateral line development</i>
	Evening lab (7:30pm)	<i>frogs, zebrafish</i>
7/3/18 (Tue)	Morning & evening labs	<i>frogs, zebrafish</i>
	Afternoon lecture	<b>Richard Harland</b> , UC Berkley, <i>axis formation &amp; neural induction</i>
	Evening lecture (8pm)	<b>Andrew Gillis</b> , Univ. Cambridge, <i>sharks/skates/holocephalans</i>
7/4/18 (Wed)	Morning	<i>parade preparations</i>
	Noon	<i>Woods Hole parade</i>
	Evening	<i>BBQ &amp; fireworks</i>
7/5/18 (Thu)	Morning & evening labs	<i>frogs, zebrafish</i>
	Afternoon lecture	<b>Elke Ober</b> , Univ. Copenhagen, <i>endoderm development</i>
7/6/18 (Fri)	Morning & evening labs	<i>frogs, zebrafish</i>
	Afternoon lecture	<b>Ray Keller</b> , Univ. Virginia, <i>Xenopus gastrulation</i>
7/7/18 (Sat)	Morning & evening labs	<i>frogs, zebrafish; show n' tell 2 (8pm)</i>
	Afternoon lecture	<b>John Wallingford</b> , Univ. Texas Austin, <i>embryonic morphogenesis</i>

<b>Module 5: Flies &amp; Arthropods (July 8 – July 14)</b>		
7/8/18 (Sun)	Morning	<i>free time</i>
	Afternoon (4pm)	<i>softball game versus Physiology and inter-course fiesta dinner</i>
7/9/18 (Mon)	Morning lecture	<b>Michael Akam</b> , Univ. Cambridge, <i>Arthropod development &amp; evolution</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
7/10/18 (Tue)	Morning lecture	<b>Nipam Patel</b> , UC Berkeley, <i>The evolution of animal body plans</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
	Evening lecture (8pm)	<b>Nipam Patel</b> , UC Berkeley, <i>butterfly wing patterning</i>
7/11/18 (Wed)	Morning lecture	<b>Rachel Smith-Bolton</b> , Univ. Illinois, <i>tissue regeneration</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
7/12/18 (Thu)	Morning lecture	<b>Matt Ronshaugen</b> , Univ. Manchester, <i>regulatory RNAs</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
7/13/18 (Fri)	Morning lecture	<b>Sally Horne-Badovinac</b> , Univ. Chicago, <i>organ morphogenesis</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
7/14/18 (Sat)	Morning lecture	<b>Lee Niswander</b> , Univ. Colorado Boulder, <i>limb development</i>
	Afternoon & evening labs	<i>flies, arthropods</i>

<b>Module 6: Ctenophores, Molluscs, and Annelids (July 15 – July 20)</b>		
7/15/18 (Sun)	Morning & afternoon	<i>free time</i>
	Evening lecture (8pm)	<b>Bill Browne</b> , Univ. Miami, <i>ctenophore development and evolution</i>
7/16/18 (Mon)	All day labs	<i>Ctenophores</i>
	Evening lecture (8pm)	<b>Carrie Albertin</b> , Univ. Chicago, <i>cephalopod development</i>
7/17/18 (Tue)	Morning lecture	<b>Jon Henry</b> , Univ. Illinois, Champaign-Urbana, <i>spiralian development</i>
	Afternoon & evening labs	<i>gastropods and cephalopods</i>
7/18/18 (Wed)	Morning lecture	<b>Elaine Seaver</b> , Whitney Lab, Univ. Florida, <i>annelid development</i>
	Afternoon & evening labs	<i>annelids, gastropods, cephalopods</i>
7/19/18 (Thu)	Morning lecture	<b>Brigid Hogan</b> , Duke, (SDB Lifetime Achievement Award recipient) <i>"How to make it as a developmental biologist"</i>
	Afternoon & evening labs	<i>annelids, gastropods, cephalopods</i>
7/20/18 (Fri)	Morning discussion	<b>David Sherwood</b> , Duke; <b>Rich Schneider</b> , UCSF, <i>course wrap-up</i>
	Morning and afternoon	<i>lab clean-up</i>
	Afternoon (4pm)	<i>show n' tell 3</i>
7/21/18	Evening (8pm)	<i>course banquet and party</i>
	Morning (by 10am)	<i>check-out and departure</i>