

## 2017 Schedule of Embryology Lectures, Labs, Faculty, and Other Course Activities

<b>Module 1: Intro, Sea Urchins, Worms &amp; Tardigrades (June 4 – June 10)</b>		
6/4/17	Reception & Dinner, 7pm	<b>Rich Schneider &amp; Dave Sherwood</b> – <i>welcome, overview, posters</i>
6/5/17	Morning lecture	<b>Athula Wikramanayake</b> , Univ. Miami, <i>metazoan body plans</i>
	Afternoon lab	<b>MBL Orientation (1:30pm)</b> Rae Nishi (MBL Director of Education), <i>HR, IT, security, education, housing, lab safety, animal care</i>
	Afternoon lecture	<b>Andres Collazo</b> , Caltech, <b>Lisa Cameron</b> , Duke, <i>microscopy</i>
	Evening lab	<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>
6/6/17	Morning lecture	<b>Cindy Bradham</b> , Boston Univ., <i>echinoderm development</i>
	Afternoon & evening labs	<i>sea urchin, confocal training</i>
6/7/17	Morning lecture	<b>Veronica Hinman</b> , Carnegie Mellon, <i>sea star development</i>
	Afternoon & evening labs	<i>sea urchin, confocal training</i>
6/8/17	Morning lecture	<b>David Sherwood</b> , Duke, <i>C. elegans cell behavior &amp; morphogenesis</i>
	Afternoon & evening labs	<i>C. elegans</i>
6/9/17	Morning lecture	<b>Bob Goldstein</b> , UNC Chapel Hill, <i>tardigrades &amp; early C. elegans</i>
	Afternoon & evening labs	<i>C. elegans</i>
	Evening lecture	<b>David Matus</b> , Stony Brook, <i>cell division and invasion</i> ; <b>Amy Maddox</b> , UNC Chapel Hill, <i>germline development</i>
6/10/17	Morning lecture	<b>Geraldine Seydoux</b> , Johns Hopkins, <i>early embryogenesis</i>
	Afternoon & evening labs	<i>C. elegans, tardigrades</i>
<b>Module 2: Zebrafish &amp; Frogs (June 12 – June 17)</b>		
6/11/17	Afternoon	<i>scavenger hunt</i>
	Evening, 7pm	<i>course dinner</i>
	Evening lab, 9pm	<i>zebrafish lab orientation</i>
6/12/17	Morning lab	<i>zebrafish development</i>
	Afternoon lecture	<b>Tatjana Piotrowski</b> , Stowers Inst., <i>lateral line development</i>
	Evening lab	<i>frog, zebrafish</i>
6/13/17	Morning & evening labs	<i>frog, zebrafish</i>
	Afternoon lecture	<b>Richard Harland</b> , UC Berkley, <i>axis formation &amp; neural induction</i>
	Evening lecture	<b>Celeste Nelson</b> , Princeton, <i>biomechanical forces in morphogenesis</i>
6/14/17	Morning & evening labs	<i>frog, zebrafish</i>
	Afternoon lecture	<b>Elke Ober</b> , Univ. Copenhagen, <i>endoderm development</i>
6/15/17	Morning & evening labs	<i>frog, zebrafish</i>
	Afternoon lecture	<b>Ray Keller</b> , Univ. Virginia, <i>Xenopus gastrulation</i>
	Evening lecture	<b>Andrew Gillis</b> , Univ. Cambridge, <i>sharks/skates/holocephalans</i>
6/16/17	Morning & evening labs	<i>frog, zebrafish</i>
	Afternoon lecture	<b>David Grunwald</b> , Univ. Utah, <i>genetic manipulations in zebrafish</i>
6/17/17	Morning & evening labs	<i>frog, zebrafish; show n' tell 1 (8pm)</i>
	Afternoon lecture	<b>John Wallingford</b> , Univ. Texas Austin, <i>embryonic morphogenesis</i>
<b>Module 3: Flies &amp; Arthropods (June 16 – June 24)</b>		
6/19/17	Morning lecture	<b>Maria Leptin</b> , EMBO, <i>Drosophila embryogenesis</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
6/20/17	Morning lecture	<b>Nipam Patel</b> , UC Berkeley, <i>arthropod development</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
	Evening lecture	<b>Richard Fehon</b> , Univ. Chicago, <i>membrane organization &amp; signaling</i>
6/21/17	Morning lecture	<b>Ruth Lehmann</b> , Skirball Institute, <i>Drosophila oogenesis</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
6/22/17	Morning lecture	<b>Rachel Smith-Bolton</b> , Univ. Illinois, <i>tissue regeneration</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
6/23/17	Morning lecture	<b>Matt Ronshaugen</b> , Univ. Manchester, <i>regulatory RNAs</i>
	Afternoon & evening labs	<i>flies, arthropods</i>
6/24/17	Morning lecture	<b>Nipam Patel</b> , UC Berkeley, <i>butterfly wing patterning</i>
	Afternoon lecture	<i>flies, arthropods</i>
	Evening lab	<i>flies, arthropods</i>

<b>Module 4: Chick &amp; Mouse (June 26 – July 1)</b>		
6/26/17	Morning lecture	<b>Andrea Streit</b> , Kings College London, <i>chick development</i>
	Afternoon & evening labs	<i>chick</i>
6/27/17	Morning lecture	<b>Richard Behringer</b> , Univ. Texas/MD Anderson, <i>mouse development</i>
	Afternoon & evening labs	<i>mouse</i>
6/28/17	Morning lecture	<b>Claudio Stern</b> , Univ. College London, <i>chick neural development</i>
	Afternoon & evening labs	<i>chick, mouse</i>
6/29/17	Morning lecture	<b>Tatjana Sauka-Spengler</b> , Univ. Oxford, <i>gene regulatory networks</i>
	Afternoon & evening labs	<i>chick, mouse</i>
	Evening lecture	<b>Olivier Pourquié</b> , Harvard, <i>molecular oscillators, segmentation</i>
6/30/17	Morning lecture	<b>Paul Trainor</b> , Stowers Inst., <i>craniofacial development &amp; disease</i>
	Afternoon & evening labs	<i>chick, mouse</i>
7/1/17	Morning lecture	<b>Rich Schneider</b> , UCSF, <i>craniofacial development &amp; evolution</i>
	Afternoon & evening labs	<i>chick, mouse; show n' tell 2 (8pm)</i>
<b>Module 5: Nematostella, Hydra, Acoels, Planaria, Molluscs, &amp; Annelids (July 3 – July 8)</b>		
7/3/17	Morning lecture	<b>Matt Gibson</b> , Stowers Inst., <i>cnidarian development</i>
	Afternoon & evening labs	<i>Nematostella</i>
7/4/17	Morning	<i>free time</i>
	Noon	<i>Woods Hole parade</i>
	Evening	<i>BBQ &amp; fireworks</i>
7/5/17	Morning lecture	<b>Brigitte Galliot</b> , Univ. Geneva, <i>hydra development &amp; regeneration</i>
	Afternoon & evening labs	<i>hydra</i>
	Evening lecture	<b>Mansi Srivastava</b> , Harvard, <i>acoelomate development &amp; regeneration</i>
7/6/17	Morning lecture	<b>Alejandro Sanchez Alvarado</b> , Stowers Inst., <i>planaria &amp; regeneration</i>
	Afternoon & evening labs	<i>acoelomates &amp; planaria</i>
	Evening lecture	<b>Jon Henry</b> , Univ. Illinois, Champaign-Urbana, <i>spiralian development</i>
7/7/17	Morning lecture	<b>Elaine Seaver</b> , Whitney Lab, Univ. Florida, <i>annelid development</i>
	Afternoon & evening labs	<i>molluscs, Capitella, Chaetopterus, etc.</i>
7/8/17	Morning & afternoon labs	<i>molluscs, Capitella, Chaetopterus, cnidaria, acoelomates, planaria</i>
<b>Module 6: Urochordates, Hemichordates, Cephalochordates, and Ctenophores (July 9 – July 15)</b>		
7/9/17	Evening (7pm)	<i>Student Fiesta</i>
7/10/17	Morning lecture	<b>Bob Zeller</b> , San Diego State Univ., <i>urochordate development</i>
	Afternoon & evening labs	<i>Ciona</i>
7/11/17	Morning lecture	<b>Chris Lowe</b> , Stanford Univ., <i>hemichordate development</i>
	Afternoon lab	<i>hemichordates</i>
	Evening lab	<i>Ciona, hemichordates</i>
7/12/17	Morning lecture	<b>Linda Holland</b> , Scripps Institute, <i>cephalochordate development</i>
	Afternoon lab	<i>Amphioxus</i>
	Evening lab	<i>Amphioxus, Ciona, hemichordates</i>
	Evening lecture	<b>Bill Browne</b> , Univ. Miami, <i>ctenophore development and evolution</i>
7/13/17	Morning lab	<i>Ctenophores</i>
	Afternoon & evening labs	<i>Ctenophores, Ciona, hemichordates, cephalochordates</i>
7/14/17	Morning lecture	<b>Dave McClay</b> , Duke, ( <i>SDB Lifetime Achievement Award recipient</i> ) <i>How to survive as a developmental biologist</i>
	Afternoon & evening labs	<i>finishing up experiments</i>
7/15/17	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>
	Evening (8pm)	<i>course party</i>