

## Embryology 2012

### Week 1

Saturday 2 June	6:30 PM meet in Swope Lobby; get dinner at local eatery	
Sunday 3 June	7:00 PM Reception & Dinner – 2 <sup>nd</sup> Floor Loeb <b>AS &amp; RB</b> – DB before, now & the future Bring your posters	
Monday 4 June	Morning Lecture	<b>Bernard Degnan</b> , Univ. of Queensland – Animal origins
	Afternoon Introduction	General orientation and MBL Tour; Safety Orientation
	Afternoon Lab	<b>Paul Maddox</b> , Univ. Montreal - Microscopy
	Evening Lab	<b>Jon Henry</b> , Univ. of Illinois, Urbana-Champaign – Tool making <b>Nipam Patel</b> , Univ. of California, Berkeley, <b>Andres Collazo</b> , House Ear Inst., <b>David Matus</b> , Duke Univ. – Image acquisition
Tuesday 5 June	Morning Lecture	<b>Dan Rokhsar</b> , Univ. of California, Berkeley - Genomes
	Afternoon Lab	<b>Athula Wikramanayake</b> , Univ. of Miami - Sea urchin
	Evening Lab	Sea urchin Animal Use Orientation Confocal Microscope Training
Wednesday 6 June	Morning Lecture	<b>Dave McClay</b> , Duke Univ. – Sea urchin
	Afternoon Lab	Sea urchin
	Evening Lab	Sea urchin
	Chalk Talk	<b>Joel Smith</b> – Transcriptomics
Thursday 7 June	Morning Lecture	<b>Joel Rothman</b> , Univ. of California, Santa Barbara – <i>C. elegans</i>
	Afternoon Lab	FluidVis demo <i>C. elegans</i>
	Evening Lab	<i>C. elegans</i>
	Chalk talk	<b>Anne-Marie Ladouceur</b> , Univ. Montreal
Friday 8 June	Morning Lecture	<b>David Sherwood</b> , Duke Univ. - <i>C. elegans</i> cell migration
	Afternoon Lab	<i>C. elegans</i>
	Evening Lab	<i>C. elegans</i>
	Chalk talk	<b>David Matus</b> and <b>Adam Schindler</b>
Saturday 9 June	Morning Lecture	<b>David Fitch</b> , New York Univ. – Nematode evolution
	Afternoon Lab	<i>C. elegans</i>
	Evening Lab	<i>C. elegans</i> & Image processing I

**Week 2**

Sunday 10 June	Morning	9:00 AM All Courses Student Brunch at Swope
	Afternoon	Scavenger Hunt
	Evening	Group dinner
Monday 11 June	Morning Lecture	<b>Stephen Small</b> , New York Univ. – Drosophila embryogenesis
	Afternoon Lab	Flies/Arthropods
	Evening Lab	Flies/Arthropods
Tuesday 12 June	Morning Lecture	<b>Ruth Lehman</b> , Skirball Institute – Drosophila oogenesis
	Afternoon Lab	Flies/Arthropods
	Chalk Talk	Image Processing II
	Evening Lab	Flies/Arthropods
Wednesday 13 June	Morning Lecture	<b>Nipam Patel</b> , Univ. of California, Berkeley – Arthropod development
	Afternoon Lab	Flies/Arthropods
	Evening Lab	Flies/Arthropods
Thursday 14 June	Morning Lecture	<b>Georg Halder</b> , Univ. of Leuven – Imaginal disc development
	Afternoon Lab	Flies/Arthropods
	Evening Lab	Flies/Arthropods
Friday 15 June	Morning Lecture	<b>Matt Ronshaugen</b> , Univ. of Manchester – Regulatory RNAs
	Afternoon Lab	Flies/Arthropods
	Evening Lab	Flies/Arthropods
Saturday 16 June	Morning Lecture	<b>Nipam Patel</b> , Univ. of California, Berkeley – Butterfly Wing Patterning
	Afternoon Lab	Flies/Arthropods
	Evening	Show ‘n Tell 1

**Week 3**

Sunday 17 June	Morning Lab	Free time
	Afternoon Lecture	<b>Tatjana Piotrowski</b> , Stowers Institute for Medical Research - Zebrafish
	Afternoon Lab	Zebrafish
Monday 18 June	Morning Lab	Zebrafish
	Afternoon Lecture	<b>Elke Ober</b> , NIMR Mill Hill – Zebrafish
	Evening Lab	Frog/zebrafish
	Chalk talk	<b>Bruce Appel</b> , Univ. of Colorado – Zebrafish neural development
Tuesday 19 June	Morning Lab	Frog/zebrafish
	Afternoon Lecture	<b>Richard Harland</b> , Univ. of California, Berkeley – <i>Xenopus laevis</i>
	Evening Lab	Frog/zebrafish
	Chalk talk	<b>Andres Collazo</b> , House Ear Institute – Zebrafish inner ear development
Wednesday 20 June	Morning Lab	Frog/zebrafish
	Afternoon Lecture	<b>Ray Keller</b> , Univ. of Virginia – <i>Xenopus</i> gastrulation
	Evening Lab	Frog/zebrafish
Thursday 21 June	Morning Lab	Frog/zebrafish
	Afternoon Lecture	<b>John Wallingford</b> , Univ. of Texas – In vivo live imaging
	Evening Lab	Frog/zebrafish
Friday 22 June	Morning Lab	Frog/zebrafish
	Afternoon Lecture	<b>Clare Baker</b> , Cambridge Univ. – Paddlefish
	Evening Lab	Frog/zebrafish
	Chalk Talk	<b>Tom Humphreys</b> , Univ. of Hawaii Hemichordate regeneration
Saturday 23 June	Morning Lab	Frog/zebrafish
	Afternoon Lecture	<b>Mike Shapiro</b> , Univ. of Utah – Pigeons
	Chalk Talk	<b>Andrew Gillis</b> , Dalhousie Univ. – Sharks/skates/holocephalans
	Evening Lab	Frog/zebrafish



**Week 4**

Sunday 24 June	Whale watching trip in Provincetown	
Monday 25 June	Morning Lecture	<b>Richard Behringer</b> , Univ. of Texas – Mouse
	Afternoon Lab	Chick
	Chalk Talk	<b>Federica Bertocchini</b> , Univ. College London – Early chick development
	Evening Lab	Chick
Tuesday 26 June	Morning Lecture	<b>Lee Niswander</b> , Univ. of Colorado – Limb development
	Afternoon Lab	Chick
	Evening Lab	Mouse
Wednesday 27 June	Morning Lecture	<b>Marianne Bronner</b> , Caltech – Chick Neural crest
	Afternoon Lab	Mouse
	Chalk Talk	<b>Marianne Bronner</b> , Caltech – Lamprey
	Evening Lab	Chick/mouse
Thursday 28 June	Morning Lecture	<b>Paul Trainor</b> , Stowers Institute for Medical Research – Mouse development and disease models
	Afternoon Lab	Chick/mouse
	Chalk Talk	Mouse TAs
	Evening Lab	Chick/mouse
Friday 29 June	Morning Lecture	<b>Claudio Stern</b> , Univ. College London – Chick Neural Development
	Afternoon Lab	Chick/mouse
	Evening Lab	Chick/mouse/zoo
Saturday 30 June	Morning Lecture	<b>Lori Sussel</b> , Columbia Univ. – Pancreas
	Afternoon Lab	Chick/mouse
	Evening	Show 'n Tell 2

**Week 5**

Sunday 1 July	Student choice	
Monday 2 July	Morning Lecture	<b>Alejandro Sanchez Alvarado</b> , Stowers Institute for Medical Research - Planaria
	Afternoon Lab	Planaria
	Evening Lab	<b>Mark Martindale</b> , Univ. of Hawaii – Ctenophores
Tuesday 3 July	Morning Lab	Ctenophore
	Afternoon	<b>Gemma Dredge &amp; Plankton tow</b>
	Afternoon Lab	Planaria/ctenophore
	Evening Lab	Planaria/ctenophore
Wednesday 4 July	Morning	Free time
	Afternoon	<b>Parade</b>
	Evening	<b>BBQ &amp; Fireworks</b>
Thursday 5 July	Morning Lecture	<b>Brigitte Galliot</b> , Univ. of Geneva - Hydra
	Afternoon Lab	Hydra
	Dinner	<b>Ethics Discussion</b> – Meigs next to Swope
	Evening Lab	Hydra
Friday 6 July	Evening	<b>Karen Crawford</b> Chalk talk - Squid
	Morning Lecture	<b>Jon Henry</b> , Univ. of Illinois – Spiralian
	Afternoon Lab	Crepidula/Cerebratulus/Squid
Saturday 7 July	Evening Lab	Crepidula/Cerebratulus/Squid
	Morning Lecture	<b>Mark Martindale</b> , Univ. of Hawaii - Nematostella
	Afternoon Lab	Planaria/Crepidula/Cerebratulus/Squid
	Evening	<b>Softball Game vs Physiology &amp; BBQ</b>

**Week 6**

Sunday 8 July	Free time	
	Evening	<b>Student Fiesta</b>
Monday 9 July	Morning Lecture	<b>Bob Zeller</b> , San Diego State Univ. - Ascidians
	Afternoon Lab	Ascidians
	Evening Lab	Ascidians
Tuesday 10 July	Morning Lecture	<b>Elaine Seaver</b> , Univ. of Hawaii - Annelids
	Afternoon Lab	Annelids
	Evening Lab	Annelids/Ascidians
Wednesday 11 July	Morning Lab	Annelids/Ascidians
	Afternoon Lab	Annelids/Ascidians
	Afternoon	<b>George Daley</b> , Children's Hospital Boston <b>Katsuma Dan Lecture – 4 pm</b>
	Evening Lab	Annelids/Ascidians
Thursday 12 July	Morning Lab	Annelids/Ascidians
	Afternoon	<b>WHOI tour</b>
	Afternoon Lab	Annelids/Ascidians
	Evening Lab	Annelids/Ascidians
Friday 13 July	Morning Lecture	<b>Ida Chow</b> , Society for Developmental Biology – Education and Leadership in Developmental Biology
	Morning	Marine Flatworm Field Collection - Waquoit
	Afternoon Lab	Complete experiments/Lab clean-up
	Evening Lab	Complete experiments/Lab clean-up
Saturday 14 July	Morning	<b>Billie Swalla</b> , Univ. of Washington – Chordate evolution
	Afternoon	Show N' Tell 3
	Evening Lab	Course Party
Sunday 15 July	Departure	