# Thursday April 27th

Education Session: 6:30-8:30

6:30-6:45 **Welcome and Introductory Remarks** by Cathy Savage-Dunn and David Matus

6:45-8:15 Alan Alda Center for Communicating Science

8:15-8:30 Fast Track Talks

Poster Session and Mixer: 8:30-10:30

## Friday April 28th

Breakfast: 7:00-8:30

**Session I: Morphogenesis and Motility 9:00-12:00** 

Chair:	Mansi Srivastava
9:00-9:20	<b>Anna-Katerina Hadjantonakis</b> , Memorial Sloan Kettering Cancer Center, Member, FGFR signaling and the emergence of pluripotency in the mouse embryo.
9:20-9:35	<b>Natalia Shylo</b> , Yale University, Graduate Student, Tmem107 mouse models provide key insights into the phenotypic variability of cilia-mediated developmental patterning.
9:35-9:50	<b>Elizabeth Bearce,</b> Boston College, Graduate Student, TACC3, a microtubule plus-end tracking protein, regulates neural crest cell motility in vitro and in vivo.
9:50-10:05	<b>Mayu Inaba</b> , University of Connecticut Health, Assistant Professor, Cellular protrusion mediated niche-stem cell communication.
10:05-10:30	Coffee Break
Chair:	Lionel Christiaen
10:30-10:50	<b>Kathryn Kavanagh</b> , University of Massachusetts, Dartmouth, Assistant Professor, Shared developmental rules predict patterns of size evolution in vertebrate segmented structures.
10:50-11:05	<b>Tyler Huycke</b> , Harvard Medical School, Graduate Student, Genetic and mechanically mediated patterning of gut smooth muscle.
11:05-11:20	<b>Diana Rubel</b> , Stony Brook University, Undergraduate Student, Deletion of B3glct disrupts craniofacial, skeletal, and cardiac development in mice.
11:20-11:35	<b>Amanda Baumholtz</b> , McGill University, Graduate Student, Claudins regulate cell shape and localization of signaling proteins at the apical cell surface during neural tube closure.
11:35-11:50	<b>Jenny Lanni</b> , Wheaton College, Assistant Professor, Essential function of ion pump Slc12a7a/KCC4a in regulating zebrafish fin proportion and pigment stripe formation.

Lunch: 12:00-1:30

## Session II: Genomics and Gene Regulation 1:45-5:15

Chair:	Carrie Adler
1:45-2:05	<b>Marcos Simoes-Costa,</b> Cornell University, Assistant Professor, Gene regulatory control of neural crest axial identity and cell fate.
2:05-2:25	<b>Cesar Arenas-Mena</b> , CUNY College of Staten Island, Associate Professor, The origins of developmental gene regulation.
2:25-2:40	<b>Sushma Teegala</b> , Queens College, CUNY, Graduate Student, Tbx2 is required for the suppression of mesendoderm during early Xenopus development.
2:40-3:00	<b>Kenneth Birnbaum</b> , New York University, Associate Professor, The link between injury and development in plant regeneration.
3:00-3:30	Coffee Break
Chair:	Mara Schvarsztein
3:30-3:50	<b>Lionel Christiaen</b> , New York University, Associate Professor, Regulation of cardiopharyngeal fate specification in a simple chordate.
3:50-4:05	<b>Jeffrey Farrell</b> , Harvard University, Postdoctoral Fellow, A pre-gastrulation damage response uncovered by single-cell RNAseq.
4:05-4:20	Fast Track Talks
4:20-4:50	Coffee Break (sponsored by Nightsea)

Keynote Address: 4:55-6:00

**Monica Driscoll**, Rutgers University, Professor, Neurons Can Take Out the Trash: A Novel Facet of Proteostasis and Mitochondrial Quality Control.

Dinner: 6:15-7:30

Poster Session and Mixer: 8:00-10:00

Saturday April 29th

Breakfast: 7:00-8:30

## Session III: Germline, Stem Cells and Regeneration 9:00-12:00

Chair:	Benjamin Martin
9:00-9:20	<b>Mansi Srivastava</b> , Harvard University, Assistant Professor, The evolution of mechanisms for animal regeneration.
9:20-9:35	<b>Austen Barnett</b> , Harvard University, Postdoctoral Fellow, The role of Hox genes in germ cell development in a basally-branching insect.
9:35-9:50	Amelie Raz, MIT, Graduate Student, Acoel regeneration mechanisms indicate ancient and widespread role for muscle in regenerative patterning.
9:50-10:10	<b>Mara Schvarsztein</b> , CUNY Brooklyn College, Assistant Professor, Chromosome inheritance in gamete and development.

10:10-10:35	Coffee Break
Chair:	Chitra Dahia
10:30-10:50	<b>Prashanth Rangan</b> , SUNY Albany, Assistant Professor, RNA secondary structure regulates translation control of a germ line RNA in <i>Drosophila</i> .
10:50-11:05	<b>Nicholas Palmisano</b> , Queens College, CUNY, Graduate Student, The recycling GTPase, RAB-10, regulates autophagy flux in <i>Caenorhabditis elegans</i> .
11:05-11:20	<b>Nicholas Leigh,</b> Harvard Medical School, Postdoctoral Fellow, von Willebrand Factor D and EGF-Domains is essential for axolotl limb regeneration.
11:20-11:40	<b>Carolyn Adler</b> , Cornell University, Assistant Professor, A divergent neurexin-1 homolog controls muscle regeneration in planarians.

Lunch: 12:00-1:30

## Session IV: Signaling and Organogenesis 1:45-4:45

Chair:	Anna-Katerina Hadjantonakis
1:45-2:05	<b>Kristi Wharton</b> , Brown University, Professor, The varied BMP signaling output critical for development requires regulated proprotein processing.
2:05-2:20	<b>Matthew Harris</b> , Harvard Medical School, Graduate Student, When fish fly: using mutational phenocopy and phylogenetics to understand allometry in evolution.
2:20-2:35	<b>Jennifer Fish</b> , University of Massachusetts, Lowell, Assistant Professor, Tissue interactions and differing threshold requirements for Fgf8 contribute to variation in disease penetrance.
2:35-3:00	Coffee Break
Chair:	Kenneth Birnbaum
Chair: 3:00-3:20	Kenneth Birnbaum  Benjamin Martin, Stony Brook University, Assistant Professor, Combinatorial signaling interactions pattern the dorsal-ventral mesodermal axis by controlling bHLH transcription factor activity.
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Keynote Address: 4:45-5:50

Leonard Zon, Harvard Medical School, Professor, Pathways Regulating Stem
Cell Induction, Self-Renewal and Engraftment.

**Business Meeting: 5:50-6:10** 

Dinner: 6:30-8:30

**Student and Postdoc Presentation Awards: 8:00-8:30** 

Sunday April 30th

Breakfast: 8:00-9:00

Departure