

Society for Developmental Biology 67th Annual Meeting
University of Pennsylvania
Philadelphia, Pennsylvania
July 25 – July 30, 2008

PRELIMINARY PROGRAM

Organizing Committee:

Eric Wieschaus (Chair, SDB President), Phil Benfey, Robb Krumlauf, Arthur Lander, Susan Mango, Scott Poethig

Local Organizers: Dan Kessler, Ida Chow

Friday, July 25

1 – 9 pm

Second SDB Boot Camp for New Faculty

Chair: Karen Bennett, Univ Missouri-Columbia

Saturday, July 26

9 am – 12 noon

Second SDB Boot Camp for New Faculty (cont.)

9 am – 5 pm

Satellite Symposium (non-SDB) - *Transcriptional Control of Neural Development*

Chair: Marthe Howard, Univ Toledo College of Medicine

7 pm - 9 pm

Presidential Symposium

Developmental Biology in the 21st Century

Chair: Eric Wieschaus, Princeton

Scott Fraser, Caltech - *Imaging the cell lineages, motions, and signals that pattern the embryo*

Joseph Ecker, Salk Inst - *Genome meets epigenome: Sequencing of the DNA methylome*

Cynthia Kenyon, UCSF - *Genes that control the rate of aging*

9 pm – 11 pm

Opening Reception and Poster Session

Sunday, July 27

8 am – 9 am

Funding Opportunities in Developmental Biology

Moderator: Ida Chow, SDB

Participants: Representatives of funding agencies

9 am – 12:30 pm

Concurrent Symposia I

Symposium 1: RNA, Localization, Translational and Regulation

Chair: Henry Krause (Canada Representative), Univ of Toronto

Liz Gavis, Princeton - *Localized RNAs, localized translation, and developmental asymmetry*

Marja Timmermans, Cold Spring Harbor Lab - *Pattern formation by small RNA signals*

Jim Priess, F Hutchinson Cancer Res Ctr - *P granules and translational control*

Kimberly Mowry, Brown - *RNA transport in the oocyte cytoplasm: How to get there from here*

4 short talks selected from abstracts

Symposium 2: Neuronal Pathfinding and Identity

Chair: Cathy Krull (Midwest Representative), Univ of Michigan-Ann Arbor

Kang Shen, Stanford - *Wnt and Netrin inhibit synapse formation in C. elegans*

Michael Granato, U Penn - TBA

Leslie Vosshall, Rockefeller – *The form and function of an olfactory sensory map in the fly brain*

Sally A. Camper, Univ of Michigan-Ann Arbor - TBA

4 short talks selected from abstracts

Symposium 3: Evolution and Diversity of Pattern

Chair: Robb Krumlauf (*Developmental Biology* Editor-in-Chief), Stowers Inst for Med Res
Miltos Tsiantis, Oxford - *Evolution of Arabidopsis and related species*
Patrick Lemaire, U de la Mediterranée - *Gene regulatory networks and cell shapes in Ciona intestinalis*
David Parichy, U Washington - *Evolution of strip pattern zebrafish*
Marianne Bronner-Fraser, Caltech - *Ancient evolutionary origin of a neural crest gene regulatory network*
4 short talks selected from abstracts

12:30 pm – 2 pm Lunch Break with posters and exhibits viewing

2 pm - 4 pm **Education Symposium:**
Scientific Publishing (Plenary)
Chair: Gail Martin, UCSF
Co-Chair: Jasna Markovac, Consultant

Workshop 1: Genomics
TBA

Informal Poster Viewing

4 pm – 4:30 pm **SDB Business Meeting**

4:30 pm - 6:30 pm **Plenary Session I**
Chair: Dan Kessler (Mid-Atlantic Representative), U Penn
Ken Irvine, Rutgers - *The Fat signaling pathway*
Dominique Bergmann, Stanford - *Asymmetry and patterning in plant epidermal development*
Bruce Bowerman, U Oregon - *Wnt signaling and binary specification in the marine Annelid Platynereis dumerilii: an ancient mechanism for asymmetric cell division?*

6:30 pm – 7:30 pm **SDB Directors' Reception for Students and Postdocs**

6:30 pm – 8 pm Dinner on your own

8 pm – 11 pm **Poster Session, Commercial Exhibits & Mixer**
Odd Number Posters Presentation

Monday, July 28

8 am – 9 am **Tutorial** - Gene Tools on *Morpholinos*

9 am – 12:30 pm **Concurrent Symposia II**
Symposium 4: Signaling Pathways and Networks

Chair: Tom Schilling (West Coast Representative), UC Irvine
Art Lander, UCI - Systems biology, cell signaling and co-receptors
Phillip Soriano, F Hutchinson Cancer Res Ctr - TBA
Alex Schier, Harvard - *Regulation of Nodal signaling*
TBA
4 short talks selected from abstracts

Symposium 5: Morphogenesis

Chair: Joe Yost (Southwest Representative), Utah
Maria Leptin, U of Cologne - *The genetic hierarchy that controls gastrulation in Drosophila*

David McClay, Duke - *Gene regulatory networks governing morphogenesis*

John Wallingford, U Texas - *Shroom family proteins: Master regulators of epithelial cell shape change in vertebrate embryos*

Bob Goldstein, U North Carolina - *Combining modern and classical methods to study morphogenesis mechanisms in C. elegans*

4 short talks selected from abstracts

Symposium 6: Stem Cells and Differentiation

Chair: Blanche Capel (Southeast Representative), Duke

Susan Mango, Utah - *Making and shaping the foregut*

Fiona Watt, Cambridge Res Inst - *Stem cell renewal and lineage selection in adult epidermis*

Haifan Lin, Yale - *The role of the piRNA pathway in stem cell self-renewal*

Phil Newmark, U Illinois - *Planarian germ cells*

4 short talks selected from abstracts

12:30 pm – 2 pm Lunch Break with posters and exhibits viewing

2 pm - 4 pm **Postdoc Symposium (Plenary)** *Session sponsored by Genentech*
Co-Chairs: Brian Eames, U Oregon; Natalie Denef, Princeton; Stefanie Kadison, U Michigan-Ann Arbor
8 talks to be selected from best regional postdoc presentations and submitted abstracts

Workshop 1: Bioinformatics

TBA

Informal Poster Viewing

4:30 pm – 6:30 pm **Plenary Session II: Awards Lectures**

4:30 Liz Robertson, Oxford - E.G. Conklin Medal, introduced by Marianne Bronner-Fraser, President-elect

5:10 Igor Dawid, NICHD - *Developmental Biology-SDB Lifetime Achievement Award*, introduced by Eric Wieschaus, President

5:50 Leland Johnson, Augustana Coll and U Maine Darling Marine Ctr - Viktor Hamburger Outstanding Educator Prize, introduced by Bill Wood, PDEC Chair

6:30 pm – 8 pm Dinner on your own

8 pm – 11 pm **Poster Session, Commercial Exhibits & Mixer**
Even Number Posters Presentation

Tuesday, July 29

8 am – 9 am **Tutorials** - TBA

9 am – 12:30 pm **Concurrent Symposia III**

Symposium 7: Organ Systems in Vertebrate Development

Chair: Deborah Yelon (Northeast Representative), NYU

Lee Niswander, U Colorado Health Sci - *Morphogenesis of the neural tube*

Olivier Pourquié, Stowers - *Segmental patterning of the vertebrate axis*

Christiane Nüsslein-Volhard, Max Planck - *Skin, scales and fins: Genetic analysis of the development of adult integumentary structures in the zebrafish*

Ben Stanger, U Penn - TBA

4 short talks selected from abstracts

Symposium 8: Gene Expression and Epigenetics

Chair: Mary Mullins (Secretary), U Penn

Mike Levine, Berkeley - *Developmental gene control by Pol II elongation in Drosophila*

Ueli Grossniklaus, U Zurich - *Molecular mechanisms of plant reproduction*

Magdalena Zernicka-Goetz, U Cambridge - *Cell fate, plasticity and pluripotency in the mouse embryo*

Brad Cairns, Utah - TBA

4 short talks selected from abstracts

Symposium 9: Mitosis and Cell Polarity

Chair: David Raible (Northwest Representative), Univ of Washington

Jeremy Nance, New York U - *Cell polarization and gastrulation in the C. elegans embryo*

Clare Tomlin, Berkeley - *Planar polarity and modeling*

Karen Oegema, UCSD - *Using the C. elegans embryo to dissect cell division mechanisms*

Darren Gilmour, EMBL - TBA

4 short talks selected from abstracts

12:30 pm – 2 pm Lunch Break with poster and exhibit viewing

2 - 5 pm

Plenary Session III

Chair: Eric Wieschaus (President), Princeton

Oliver Hobert, Columbia - *Gene regulatory mechanisms controlling neuronal diversity in C. elegans*

Kevin Eggan, Harvard - *Mechanisms of nuclear reprogramming*

Gerald Grunwald, Jefferson Med Sch - History and intro to Mutter's Museum

Eileen Shore, U Penn - genetic and developmental defects in BMP signaling and *fibrodysplasia ossificans progressiva*

Dominique Bergmann (Junior Faculty Representative), Stanford – Presentation of Best Student Poster Competition Awards

6 pm - ?

Closing Reception at Mutter Museum

Wednesday, July 30

Departure

8:30 am - 3 pm

SDB Board of Directors Meeting