

# SDB Mid-Atlantic Regional Meeting 2002

Friday, April 19, 2002

- 9:00 — 12:30 Education Workshop for local teachers  
**Ida Chow, John Doctor, Scott Gilbert and Karen Crawford**
- 12:45 -1:45 Registration
- 1:45 — 2:00 **WELCOME AND OPENING REMARKS**  
**Maxine Singer** President, Carnegie Institution of Washington
- 2:00 — 3:30 Plenary Symposium Model Systems and Medicine**  
chair: Marnie Halpern
- 2:00 - 2:30 **John Gearhart** Johns Hopkins Medical Institute, Baltimore, MD  
*Human embryonic stem cells - the end of the beginning*
- 2:30 - 3:00 **Denise Montell** Johns Hopkins Medical Institute, Baltimore, MD  
*Genetic analysis of invasive cell behavior: Drosophila border cell migration as a model for tumor metastasis*
- 3:00 - 3:30 **Maximilian Muenke** National Human Genome Research Institute, NIH,  
Bethesda, MD  
*Holoprosencephaly, the most common developmental forebrain anomaly in humans*
- 3:30 — 4:00 **COFFEE BREAK**
- 4:00 — 6:00 Session I Genetic and Genomic Developmental Analyses**  
chair: Erika Matunis
- 4:00 — 4:20 **Erika Matunis** Carnegie Institution of Washington, Baltimore, MD  
*Stem cells and spermatogenesis in Drosophila*
- 4:20 — 4:35 **Tetsuya Tanaka** National Institute on Aging, NIH, Baltimore, MD  
*Gene expression profiles of embryonic stem cells and trophoblast stem cells.*
- 4:35 — 4:55 **Scott Poethig** University of Pennsylvania, Philadelphia, PA  
*Regulation of organ polarity in Arabidopsis*
- 4:55 — 5:15 **Wendy Hanna-Rose** Pennsylvania State University, State College, PA  
*Vulval development in C. elegans*
- 5:15 — 5:30 **Hui Chen** University of Maryland, Baltimore County, Baltimore, MD  
*NKX-3.1 interacts with prostate derived Ets factor and regulates the activity of the PSA promoter*
- 5:30 — 5:45 **Vera Voronina** West Virginia Univ., Morgantown, WV & NCI, Frederick  
*Conditional Inactivation of the Rx Homeobox Gene Results in Viable Anophthalmic*

*Animals*

5:45 — 6:05 **Eric Baehrecke** Univ. of Maryland Biotech. Instit., College Park, MD  
*Regulation of programmed cell death in Drosophila*

6:10 — 9:00 **Reception**  
**Poster Presentations/Exhibit Viewing**

**Saturday, April 20, 2002**

8:00 — 8:30 **CONTINENTAL BREAKFAST**

8:30 — 10:30 **Session II Morphogenesis and Cell Biology**  
chair: Mark Van Doren

8:30 — 8:50 **Mark Van Doren** Johns Hopkins University, Baltimore, MD  
*Sexually dimorphic development of the Drosophila gonad*

8:50 — 9:05 **Daniela Drummond-Barbosa** Carnegie Inst. of Washington, Baltimore,  
*Nutritional regulation of stem cells and their progeny in the fly ovary*

9:05 — 9:25 **Nancy Jenkins** National Cancer Institute, NIH, Frederick, MD  
*A molecular genetic approach to the study of vesicle transport in the mouse*

9:25 — 9:40 **Raymond Habas** NICHD/NIH  
*Daam1 couples Wnt signaling to the planar cell polarity pathway.*

9:40 — 10:00 **Douglas DeSimone** University of Virginia, Charlottesville, VA  
*Cell behaviors, integrins and Xenopus embryogenesis*

10:00 — 10:20 **Michael Kuehn** NCI, NIH, Bethesda, MD  
*Mutation of Senp1 reveals an essential role for SUMO-1 deconjugation in mouse development*

10:20 — 10:45 **COFFEE BREAK**

10:45 — 12:30 **Session III Neural Development**  
chair: Sally Moody

10:45 — 11:05 **Sally Moody** George Washington University, Washington, DC  
*foxD5 gene function in the neural plate of Xenopus*

11:05 — 11:20 **Thomas Brody** NINDS, NIH, Bethesda, MD  
*A search for targets of the Drosophila neuroblast temporal network*

11:20 — 11:40 **Ajay Chitnis** NICHD, NIH, Bethesda, MD  
*The role of hdl and tcf3b in determining the shape of a Wnt/b catenin activity gradient in the neurectoderm*

- 11:40 — 11:55     **Joshua Gamse**         Carnegie Institution of Washington, Baltimore, MD  
*Establishing left-right asymmetry in the zebrafish diencephalon*
- 11:55 — 12:10     **Barbara Lom**         Davidson College, Davidson, NC  
*Location, location, location: Retinal and tectal BDNF exert opposing effects on retinal ganglion cell dendritic arborization in vivo*
- 12:10 — 12:30     **Brian Howell**        NINDS, NIH, Bethesda, MD  
*Genetic control of neuronal migration during brain development.*
- 12:30 — 2:30      **LUNCH** (and poster/exhibit viewing)
- 2:30 — 5:30      **Session IV**     **Pattern Formation and Evolution**  
                            chair: Dan Kessler
- 2:30 — 2:45      **Jason Pellettieri**     Johns Hopkins Medical Inst., Baltimore, MD  
*pom-1 is required for anterior/posterior polarity in the C. elegans embryo and is related to a regulator of cell polarity in S. pombe*
- 2:45 — 3:05      **Dan Kessler**         University of Pennsylvania, Philadelphia, PA  
*A double negative: FoxD3 regulation of Nodal in Xenopus mesoderm formation*
- 3:05 — 3:25      **Zhongchi Liu**         University of Maryland, College Park, MD  
*A regulatory mechanism for specifying domain-specific floral homeotic gene expression in Arabidopsis*
- 3:25 — 3:40      **Alex Schreiber**        Carnegie Institution of Washington, Baltimore, MD  
*Epithelial-mesenchyme interactions during Xenopus metamorphosis*
- 3:40 — 4:00      **Rick Elinson**         Duquesne Univ., Pittsburgh, PA  
*Amphibian diversity and egg evolution*
- 4:00 — 4:30      **Coffee Break**
- 4:30 - 5:30      **Keynote Address**
- Christopher Wright**     Vanderbilt Medical School, Nashville, TN  
*Plasticity of pancreatic development*