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# DEVELOPMENTAL BIOLOGY

First Pan American Congress in Developmental Biology

SDB 66th Annual Meeting

SMBD 8th Annual Meeting

LASDB 3rd International Meeting

CANCÚN, MÉXICO

JUNE 16-20, 2007





## First Pan American Congress in Developmental Biology

SDB 66th Annual Meeting, SMBD 8th Annual Meeting,  
LASDB 3rd International Meeting

Gran Meliá Hotel, Cancún, México

June 16–20, 2007

**Organizing Committee: Co-Chairs** — Gail R. Martin (SDB) and Diana Escalante-Alcalde (SMBD);

**Members** — Richard Behringer (SDB), José Xavier Neto (LASDB) and Mario Zurita (SMBD)

Abstract Program Number in *italics*

### Program

Saturday June 16, 2007

9 AM–5 PM

**Satellite Symposium — non-SDB meeting**

*Somitogenesis: From Models to Therapeutics Symposium*. Organized by Olivier Pourquié, Stowers Institute and Kenro Kusumi, Arizona State Univ.

Separate Registration required.

Lanzarote

1–6 PM

**Congress Registration**

Registration Area

1–5 PM

**Exhibits and Poster Session I set-up**

Goya, Dali and Greco

7–9 PM

**Presidential Symposium**

Miró, Murilo, Picasso and Del Prado

7:00 **Gail R. Martin**, UCSF and **Diana Escalante-Alcalde**, UNAM, Mexico, Co-Chairs — *Introduction*

1

7:15 *Self-regulation of embryonic pattern in Xenopus embryos*  
**Eddy De Robertis**, Lucho Fuentealba, Edward Eivers, Cecilia Hurtado, Andrea Ambrosio, Vincent Taelman, Jean-Louis Plouhinec, Hojoon X. Lee. HHMI and University of California, Los Angeles

2

7:50 *Stem cells and lineage decisions in early mammalian embryo*  
**Janet Rossant**, A Ralston, Y Yamanaka, R Stephenson, J Draper, C Seguin. Dev and Stem Cell Biol, Hosp for Sick Children, Toronto, Canada; Med Genet and Microbio, Univ of Toronto, Canada

3

8:25 *Evo-Devo studies on Latin American fauna*  
**Cliff Tabin**. Harvard Med Sch, Boston, MA

9–11 PM

**Opening Reception and Poster/Exhibit Session I**

Please see Poster Session assignment in the end of the Meeting Program

Goya, Dali and Greco

Poster Session I themes: *Education, Molecular Medicine and Development, Cell Proliferation, Cell-cell Signaling Pathways, Intracellular Signaling Pathways, Gene Regulation, Patterning and Transcription Factors, Cell Motility and Guidance.*

Sunday June 17, 2007

8 AM-5 PM

Congress Registration

Registration Area

7:30-8:45 AM

Breakfast Sessions I

*Morpholinos Tutorial/Roundtable sponsored by Gene Tools*

Mallorca

7:30 **Jon Moulton**, Gene Tools — *Morpholinos: Brief basics then technical roundtable*

8:00 *Funding Opportunities for Collaborative Projects*  
**Ida Chow**, SDB — Moderator. Representatives from US and Latin American funding agencies and organizations, governmental and private

Lanzarote

9 AM-12:30 PM

Concurrent Symposia I

*Development of the Body Plan*

**Gerald H. Thomsen**, Stony Brook U — Chair

Miró, Murilo and Picasso

4

9:00 *Gastrulation in frogs with terrestrial reproduction.*  
**Eugenia M. Del Pino**, Michael F. Venegas-Ferrín, Marco F. Romero-Carvajal, Paola C. Montenegro-Larrea, N. Sudou, M. Taira. Pontif. Cath. Univ. Ecuador, Sch. Biol. C., Quito, Ecuador; Dept. Biol. Sci. Grad. Sch. Sci. Univ. Tokyo, Tokyo, Japan

5

9:30 *Dorsal and ventral patterning during early development of the *Xenopus* embryo.*  
**J. A. Larrain**. Department of Cell and Molecular Biology, Millennium Nucleus in Developmental Biology, FONDA-P-Biomedicine, P. Universidad Católica de Chile

6

10:00 *Wnt3a/catenin signaling spatially positions segment boundaries by specifying presomitic mesoderm fates and posteriorly repressing boundary formation.*  
**Terry P. Yamaguchi**, M Lewandoski, K. Biris, W C. Dunty, Jr. CDBL, NCI-Frederick, NIH, Frederick, MD

7

10:15 *Signal independent degradation of Cactus by the  $Ca^{2+}$ -dependent protease Calpain A is regulated by maternal Dpp.*  
**Helena M. Araújo**, Adriana Oliveira-Silva, Rodrigo. Agrellos, Marcio R. Fontenele, Katia Carneiro. Dept. Histology and Embriology, Inst of Biomedical Sciences, Federal Univ. of Rio de Janeiro, RJ, Brazil

10:30-11:00

Coffee Break

8

11:00 *Mechanisms of vertebrate dorsal-ventral limb patterning.*  
**Randy L. Johnson**, Qiong Qiu, Li Ying, Lu Pu. Dept. of Biochem. and Mol. Biol, U. Texas M.D. Anderson Cancer Center; Program in Genes and Development, GSBS, U. Texas HSC Houston

9

11:30 *Hox genes and limb morphogenesis.*  
**Marie Kmita**, Denis Duboule, Basile Tarchini. IRCM, Montreal, QC, Canada; University of Geneva, Switzerland

10

12:00 *A unifying model of vertebrate left-right axis formation.*  
**Martin Blum**, T. Weber, T. Beyer, P. Vick, P. Andre, A. Schmidt, S. Bogusch, V. Mauch. University of Hohenheim, Institute of Zoology, D-70593 Stuttgart, Germany

11

12:15 *Retinoic acid and Hox genes in the patterning of amphioxus.*  
**Demian Koop**, Michael Schubert, Linda Holland. Scripps Institution\* for Oceanography, UCSD, San Diego, CA; Institut de Génomique Fonctionnelle de Lyon, Lyon, France

**Cardiovascular and Hematopoietic Development****Brant Weinstein**, NICHD/NIH — Chair

Del Prado

- 9:00 *Understanding the role of hemodynamics in early cardiovascular development.*  
**Mary Dickinson**, Molecular Physiology, Baylor, Houston, TX
- 12 9:30 *Slit and Robo are required for lumen formation in the *Drosophila* embryonic heart.*  
**Edgardo Santiago-Martinez**, Nadine H. Soplop, Rajesh Patel, Sunita G. Kramer.  
Dept of Pathology, UMDNJ-RWJMS, Piscataway NJ; Program in Molecular Genetics, Microbiol. and Immunology, UMDNJ-GSBS, Piscataway NJ
- 13 9:45 *Cellular and genetic dissection of the cardiac electric system.*  
**Didier Stainier**, Neil Chi, Robin Shaw, Jan Huisken, Benno Jungblut, Lily Jan. Dept. of Biochemistry, UCSF, San Francisco, CA; Dept. of Physiology, UCSF, San Francisco, CA
- 14 10:00 *Retinoic acid signaling and the origin of chambered hearts.*  
**José Xavier Neto**, Lab Genetics and Molecular Cardiology/Heart Institute Univ São Paulo, Med School, Sao Paulo-SP, Brazil
- 10:30–11:00 **Coffee Break**
- 15 11:00 *Transcriptional control of second heart field development.*  
**Brian L. Black**, Jione Kang, Ian Harris, Will Schachterle, Anabel Rojas. Cardiovascular Research Institute, University of California, San Francisco, San Francisco, CA
- 16 11:15 *Vessel and blood specification override cardiac specification in anterior mesoderm.*  
**Deborah Yelon**, Jeffrey Schoenebeck, Brian Keegan. Developmental Genetics Program, Skirball Institute, New York, NY
- 17 11:30 *Cellular and molecular mechanisms controlling lymphatic vasculature development in mammals.*  
**Guillermo C. Oliver**, R. Sathish Srinivasan, Nicole Johnson, Miriam Dillard. Dept. of Genetics, St. Jude Children's Research Hospital, Memphis, TN
- 18 12:00 *PlexinD1: a dual role in zebrafish angiogenesis and lymphangiogenesis?*  
**Tara L. Christie**, Sarah Childs. Department of Biochemistry and Molecular Biology, University of Calgary, AB, Canada
- 19 12:15 *Programming haematopoietic stem cells in the embryonic dorsal aorta.*  
**Aldo Ciau-Uitz**, Claire Fernandez, Philip Pinheiro, Roger Patient. MRC MHU, Univ of Oxford, Oxford, United Kingdom
- 12:30–1:30 PM **Science Writing Skills Workshop I**
- 20 *Fundamentals*  
**Marsha Matyas**, American Physiological Society and **Jasna Markovac**, SDB  
Pre-registration required
- 12:30–1:30 PM **Lunch**
- 12:30–6 PM **Exhibits and Posters Open**
- 1:30–3:30 PM **Postdoctoral Symposium**  
**Julie Gordon**, UGA, **Francesca Mariani**, UCSF and **Denhi Schnabel**, UNAM, Mexico — Co-Chairs

Mallorca

Goya, Dali and Greco

Miró, Murilo, Picasso and Del Prado

- 21 1:30 *A new role for an old gene: brachyury and the subdivision of the endomesoderm.*  
**Jenifer C. Croce**, David R. McClay. Duke Univ., Durham, NC
- 22 1:45 *Essential role for PDGF signaling in trigeminal placode formation.*  
**Kathryn L. McCabe**, Marianne Bronner-Fraser. Dept. of Bio. Calif. Inst. of Tech., Pasadena, CA
- 23 2:00 *Lens regulates sensory innervation of the cornea via Semaphorin3A.*  
**Peter Y. Lwigale**, Marianne Bronner-Fraser. Division of Biology, California Institute of Technology, Pasadena, CA
- 24 2:15 *Roles of Hedgehog signaling in mouse retina development.*  
**Kiyo Sakagami**, Xian-Jie Yang. Jules Stein Eye Inst., UCLA, Los Angeles, CA
- 25 2:30 *The regulation of sympathetic nervous system development by the bHLH factor Hand2.*  
**Yuka Morikawa**, Fabien D'Autréaux, Michael Gershon, Peter Cserjesi. Dept. Cell Molecular Biology, Tulane Univ., New Orleans, LA; Dept. Anatomy and Cell Biology, Columbia Univ., New York, NY
- 26 2:45 *Transcriptional regulation of MyH-7b, a novel myosin heavy chain expressed in the vertebrate heart.*  
**Andrew S. Warkman**, Melanie K. Miller, Robert K. Garriock, Susan L. D'Agostino, Paul A. Krieg. Dept. of Cell Biology and Anatomy, Univ. of Arizona, Tucson, AZ
- 27 3:00 *Molecular genetics of zebrafish endochondral ossification.*  
**Brian F. Eames**, Charles B. Kimmel. Inst of Neuroscience, Univ of Oregon, Eugene, OR
- 28 3:15 *Sonic Hedgehog control of pattern and growth can be uncoupled in the developing limb.*  
**Jianjian Zhu**, Minh-Thanh Nguyen, Eiichiro Nakamura, Susan Mackem. Lab. of Pathology, NCI, NIH, Bethesda, MD
- 3-4 PM **LASDB Business Meeting** Mallorca
- 3:30-4 PM **SDB Business Meeting** Miró, Murilo, Picasso and Del Prado
- 3:30-4 PM **Coffee Break**
- 4-6 PM **Plenary Session I** Miró, Murilo, Picasso and Del Prado
- 29 4:00 *Holly Schauer Memorial Lecture — Regulation of developmental timing in plants by miRNAs and trans-acting siRNAs.*  
**Scott Poethig**. Biol Dept, Univ of Pennsylvania, Philadelphia, PA
- 30 4:30 *An evolutionary perspective on cell signaling in embryonic pattern formation.*  
**Gerald H. Thomsen**, D Q. Matus, K Pang, H Marlow, C W. Dunn, T Kalkan, M Q. Martindale. Stony Brook Univ; Kewalo Marine Lab, Univ Hawaii.
- 31 5:00 *Assembly and patterning of vessels during developmental angiogenesis and lymphangiogenesis.*  
**Brant Weinstein**. Lab of Molecular Genetics, NICHD-NIH, Bethesda, MD
- 5:30 *Title unavailable*  
**Liz Robertson**, Oxford, UK
- 6-7 PM **Meet Your SDB Directors Reception for Students and Postdocs** TBA
- 6-8 PM **Dinner on your own**
- 8-11 PM **Poster/Exhibits Session II** Goya, Dali and Greco  
Please see Poster Session assignment in the end of the Meeting Program

Poster Session II themes: *Development and Evolution, Functional Genomics, Germ Cells and Gametogenesis, Fertilization, Stem Cells and Tissue Regeneration, Early Embryo Patterning, Organogenesis.*

Monday June 18, 2007

8 AM–5 PM

Congress Registration

Registration Area

7:30–8:45 AM

Breakfast Session II

PDEC roundtable — *Postdoctoral Exchange*

Karen Bennett, U MO-Columbia — Chair

Lanzarote

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*Choosing the best postdoctoral experience: is international training right for you?*

Karen Bennett, U MO-Columbia

33

*International postdoctoral experience: leaving and returning home*

Irene Yan, USP, Brazil

34

*Postdoctoral experience in a foreign country*

Rosa E. Navarro, UNAM, Mexico

9 AM–12:30 PM

Concurrent Symposia II

*Patterning of the Nervous System*

Alexandra Joyner, Sloan-Kettering Institute — Chair

Miró, Murilo and Picasso

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9:00 *Novel players in Notch signaling*

Hugo J. Bellen, Melih Acar, Hamed Jafar Nejad, Anchi Tien, Akhila Rajan. Program in Dev. Biol., BCM, Houston, TX; Department of Human and Molecular Genetics, BCM, Houston, TX; HHMI, BCM, Houston, TX

36

9:30 *Cis-inhibition of Notch signaling in para-boundary cells in the zebrafish hindbrain.*

Kinneret Rand, Motoyuki Itoh, Greg Palardy, Miho Matsuda, Sang-Yeob Yeo, Moloy Goswami, Ajay Chitnis. LMG, NICHD, NIH, Bethesda, MD; Graduate School of Scien., Nagoya Univ. Nagoya, Japan; College of Nat. Scien., Kyungpook National Univ., Republic of Korea

37

9:45 *A critical role for Cadherin6B during the epithelial-to-mesenchymal transition underlying avian neural crest cell migration.*

Lisa Taneyhill, Edward G. Coles, Marianne Bronner-Fraser. Division of Biology, California Institute of Technology, Pasadena, CA

38

10:00 *Asymmetric morphogenesis of the parapineal organ in the developing zebrafish brain.*

Miguel Concha, Carmen G. Lemus, Steffen Hartel, Jenny Regan, Claire Russel, Stephen Wilson. Anatomy and Dev. Biology Program, ICBM, Universidad de Chile, Chile, Dept. of Anatomy and Dev. Biology, University College London, UK

10:30

Coffee Break

39

11:00 *An ENU screen novel genes required in mammalian forebrain development.*

Rolf W. Stottmann, Yujuan Yun, David Beier. Div. Genetics, Brigham and Women's Hospital, Boston, MA

40

11:15 *Fibroblast growth factor signaling controls development of the cerebellar vermis by inhibiting signals permissive for roofplate formation in anterior rhombomere1.*

M. Albert Basson, Diego Echevarria, Christina Peterson, George Minowada, Anamaria Sudarov, Alexandra Joyner, Ivor J. Mason, Salvador Martinez, Gail R. Martin. University of California, San Francisco; King's College London, UK; Instituto de Neurociencias de Alicante, Spain; Skirball Institute, New York

11:30 *Adult neural stem cells are heterogeneous.*

Arturo Alvarez-Buylla. UCSF

41

12:00 *Region-specific differentiation of embryonic stem cell-derived neural progenitors transplanted to the adult mouse hippocampus.*

**Laura Grabel**, Joseph Carpentino, Nathaniel Hartman, Kristi LaMonica, Janice Naegele. Biology Department, Wesleyan University, Middletown, CT

- 42 12:15 *LIM homeodomain factor Lhx5 is required for normal development and migration of Cajal-Retzius cells.*

**Alfredo Varela-Echavarría**, Kimmi Houang, Elisa Tamariz, Heiner Westphal, Yangu Zhao. Instituto de Neurobiología, UNAM, Querétaro, Qro. C.P. 76230, México; Laboratory of Mammalian Genes and Development, NICHD, NIH, Bethesda, MD

**Tissue Morphogenesis and Homeostasis**

**Del Prado**

**Mark Krasnow**, Stanford — Chair

- 43 9:00 *GDNF/Ret signaling and renal branching morphogenesis.*  
**Frank Costantini**. Dept. of Genetics and Development, Columbia University, New York, NY

- 44 9:30 *The role of Wnt9b in kidney tubule maintenance.*  
**Courtney M. Karner**, Thomas J. Carroll. Departments of Internal Medicine (Nephrology) and Molecular Biology, University of Texas Southwestern Medical Center, Dallas, TX

- 45 9:45 *Early regional specification of the endoderm toward a pancreatic fate is under the control of the BMP signaling.*  
**Francesca M. Spagnoli**, Ali H. Brivanlou. Lab. Vertebrate Embryology, The Rockefeller University, New York

- 46 10:00 *The role of Slit family guidance cues in breast.*  
**Lindsay Hinck**. MCD Biology, UC Santa Cruz, CA

10:30 **Coffee Break**

- 47 11:00 *Planar cell polarity and the coordination of cell behaviors during axis elongation.*  
**James T. Blankenship**, Justina Sanny, Ori Weitz, Jennifer Zallen. Dept. of Dev. Biol., Sloan-Kettering Institute, New York, NY

- 48 11:15 *Multiple functions of Snail family members in palate development and craniofacial morphogenesis.*  
**Stephen A. Murray**, Kathleen F. Oram, Thomas Gridley. The Jackson Laboratory, Bar Harbor, ME

- 49 11:30 *Cell-autonomous accumulation of the Drosophila HIF- $\alpha$  homologue Sima in tracheal cells contributes to tracheal extra-sprouting in hypoxia.*  
**Pablo Wappner**, Andres Dekanty, Lazaro Centanin. Instituto Leloir, Buenos Aires, Argentina.

- 50 12:00 *Regulation of growth by the Fat tumor suppressor pathway.*  
**Ken Irvine**, Eunjoo Cho, Yongqiang Feng, Hiroyuki Ishikawa, Binnaz Kucuk, Yaopan Mao, Hyangye Oh, Cordelia Rauskolb. Howard Hughes Medical Institute, Waksman Institute and Department of Molecular Biology and Biochemistry, Rutgers The State University of New Jersey, Piscataway NJ

- 51 12:15 *Fgf8 is essential for development of the male reproductive tract.*  
**Yutaka Ueda**, M Lewandoski, S Plisov, C Wilson, N Sharma, C Elder, A Perantoni. Lab Comp Carcinog and, <sup>2</sup>Cancer and Dev Biol Lab, NCI, Frederick, MD

12:30–1:30 PM

**Science Writing Skills Workshop II**

**Mallorca**

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*Critical Issues*

**Jasna Markovac**, SDB and **Marsha Matyas**, APS

Pre-registration required

12:30–1:30 PM

**Lunch**

12:30–6 PM	Exhibits and Posters Open	Goya, Dali and Greco
1:30–3:30 PM	Professional Development and Education Symposium	Miró, Murilo, Picasso and Del Prado
53	<i>Communicating Science without the Jargon</i>	
	1:30 Scott Gilbert, Swarthmore, Chair — <i>Bringing developmental biology to the public</i>	
	1:50 Eugenie Scott, National Center for Science Education — <i>Reaching the general public</i>	
	2:10 Joe Palca, National Public Radio — <i>How media cover science</i>	
	2:30 Christina Nichols, Acad for Educ Development — <i>Cultural and language nuances</i>	
	2:50 Open discussion	
3:30–4 PM	Coffee Break	
4–6 PM	Plenary Session II	Miró, Murilo, Picasso and Del Prado
54	4:00 <i>Cerebellum patterning: from folds and stripes to circuits.</i> Alexandra L. Joyner, Roy V. Sillitoe, Sema Sgaier, Yulan Cheng, Anamaria Sudarov. Developmental Biology Program, Sloan-Kettering Institute, New York	
	4:30 <i>Genetic dissection of branching morphogenesis.</i> Mark Krasnow. Biochemistry, Stanford University, Stanford, CA	
55	5:00 <i>Comparing the regulation of segmentation and limb formation in insects.</i> Thom Kaufman. Dept. of Biol., Indiana University, Bloomington, IN	
	5:30 Luis Herrera Estrella, CINVESTAV, Mexico — <i>Regulation of root development in response to nutrient availability</i>	
6–7 PM	LASDB Board of Directors Meeting	Mallorca
6–7 PM	MBL Embryology Alumni Mixer	Menorca
6–8 PM	Dinner on your own	
8–11 PM	Poster/Exhibits Session III Please see Poster Session assignment in the end of the Meeting Program	Goya, Dali and Greco

Poster Session III themes: *Cell Fate Specification, Morphogenesis, Late Abstracts, Student Best Poster Competition Finalists.*

Tuesday June 19, 2007

8 AM–5 PM	Congress Registration	Registration Area
7:30–8:45 AM	Breakfast Sessions III	
56	<i>LEADER-BEN Tutorial — Submitting learning/teaching objects for the SDB digital library</i> Diana Darnell, U AZ and SDB, and Marsha Matyas, APS Tutorial sponsored by the International Journal in Developmental Biology <i>Claves artísticas y técnicas para publicar un buen artículo</i> David Fogarty, IJDB	Lanzarote Mallorca
9 AM–12:30 PM	Concurrent Symposia III <i>Reproduction</i> Judith Kimble, U Wisconsin-Madison — Chair	Miró, Murilo and Picasso
	9:00 <i>From sexual to apomictic development in flowering plants.</i> Jean Philippe Vielle-Calzada, CINVESTAV, Mexico	
57	9:30 <i>Examination of the role of the Arabidopsis MADS-box transcription factors AGL6 and AGL13 in reproduction.</i> Stephen E. Schauer, Ramarmurthy Baskar, Lukas Brand, Arturo Bolaños, Monica Grobei, Michael Federer, Urs Jauch, Valeria Gagliardini. Institute of Plant Biology, University of Zürich, Zürich, Switzerland.	



- 58 9:45 *Establishment of oocyte polarity in vertebrates.*  
**Mary Mullins**, Tripti Gupta. Dept of Cell and Dev Biol, University of Pennsylvania, Philadelphia, PA
- 10:00 *The battle of the sexes: patterning the gonad.*  
**Blanche Capel**. Dept of Cell Biol, Duke University Medical Center, Durham, NC
- 10:30 **Coffee Break**
- 59 11:00 *Formation of the female reproductive tract, a unique form of tubulogenesis.*  
**Grant D. Orvis**, Richard R. Behringer. Dept. of Molecular Genetics, UT M.D. Anderson Cancer Center, Houston, TX
- 60 11:15 *Multiphasic role of Shh during external genital development and cloacal septation.*  
**Ashley W. Seifert**, Brian Harfe, Martin Cohn. Dept. of Zool., Univ. of FL, Gainesville, FL; Dept. of MGM, Univ. of FL, Gainesville, FL
- 11:30 *Regulation of differentiation in an adult stem cell lineage.*  
**Minx Fuller**. Stanford Univ School of Medicine, Stanford, CA
- 61 12:00 *Role of autonomous and non-autonomous sex determination signals in sexually dimorphic development of the Drosophila embryonic gonad.*  
**N R. Crnkovich**, T J. DeFalco, S Le Bras, A L. Casper, M B. Van Doren. Dept of Biology, Johns Hopkins University, Baltimore, MD
- 62 12:15 *VBH-1 is a DEAD Box RNA helicase required for germ cells function in C. elegans.*  
**Rosa E. Navarro**, Laura S. Salinas, Daniel Paz, Ernesto Maldonado. Depto. de Biol. Cel., IFC, Universidad Nacional Autónoma de México. México; Depto. de Genética Molecular, IFC, Universidad Nacional Autónoma de México. México

**Development of the Integument and Sensory Perception**

**Del Prado**

**Barry Dickson**, Inst Molec Pathology, Austria — Chair

- 9:00 *Molecular signaling in feather morphogenesis: lessons for stem cell patterning.*  
**Cheng-Ming Chuang**, USC
- 63 9:30 *Evidence that a late-emerging population of trunk neural crest cells forms the turtle plastron and nuchal bones.*  
**Scott F. Gilbert**, Erin Betters, Melinda Yin, Callie Plafkin, Gunes Bender, Kendra McDow. Department of Biology, Swarthmore College, Swarthmore, PA; Department of Biology, Millersville University, Millersville, PA; Division of Science, Friends Central High School, Wynnwood, PA
- 64 9:45 *Drosophila Homer is required for retinal apoptosis.*  
**Erica J. Hutchins**, Jamie C. Rusconi. Department of Biological Sciences, University at Albany, Albany, NY
- 65 10:00 *Regulation of cell fate and patterning in the mammalian cochlea.*  
**Matthew W. Kelley**, Mireille Montcouquiol, Chad Woods, Jennifer E. Jones, Bonnie E. Jacques, Chandrakala Puligilla, Alain Dabdoub, Elizabeth C. Driver. Section on Developmental Neuroscience, NIDCD, NIH, Bethesda, Maryland
- 10:30 **Coffee Break**
- 66 11:00 *Development and regeneration in the zebrafish lateral line.*  
**Miguel L. Allende**, Pedro Hernandez, Francisco Olivari, Andres Sarrazin, Viviana Nuñez, Pablo Sandoval, Viviana Gallardo. CGC, Facultad de Ciencias, Universidad de Chile

67 11:15 *An insertional mutation in the vesicle traffic vps18 gene produces visual acuity loss in zebrafish embryos.*  
**Ernesto Maldonado**, Rosa E. Navarro. Department of Molecular Genetics, Instituto de Fisiología Celular, Universidad Nacional Autónoma de México, UNAM, MEXICO; Department of Cell biology, Instituto de Fisiología Celular, Universidad Nacional Autónoma de México, UNAM, MEXICO

68 11:30 *The mind of a male worm-development of the C. elegans male's nervous System.*  
**Scott Emmons**. Dept of Molecular Genetics, Albert Einstein College of Medicine, Bronx, NY

69 12:00 *Lens: a ground state for all sensory placodes and its inhibition by FGF and neural crest derived signals.*  
**Andrea Streit**, Andrew Bailey, Sujata Bhattacharyya, Marianne Bronner-Fraser. Craniofacial Development, King's College London, London, UK; Division of Biology, Caltech, Pasadena, CA

70 12:15 *Embryonic Sonic hedgehog-expressing taste placodes are taste bud progenitors.*  
**Shoba Thirumangalathu**, Linda A. Barlow. Dept. of Cell and Developmental Biology. U Colorado Health Sci Ctr, Aurora, CO

12:30–1:30 PM **Lunch**

1:30–3:30 PM

**Plenary Session III**

**Miró, Murilo, Picasso and Del Prado**

1:30 *Controlling the balance between proliferation and differentiation in the C. elegans germ line*  
**Judith Kimble**, U Wisconsin-Madison

71 2:00 *Genetic dissection of Drosophila courtship behaviour*  
**Barry J. Dickson**, Laszlo Tirian, Georg Dietzl. IMP (Research Institute of Molecular Pathology) Vienna, Austria

72 2:30 *Gastrulation in amniote embryos: positioning and shaping the primitive streak*  
**Claudio D. Stern**, Octavian Voiculescu, Federica Bertocchini, Isaac Skromne, Ray E. Keller. Dept. Anatomy and Dev Biol., Univ. College London, London, UK; Dept Gen and Dev, Columbia University, New York; Dept Organismal Biology, Univ Chicago, Chicago, IL; Dept Biology, Univ Virginia, Charlottesville, VA

73 3:00 *Role of Wnt signalling in neural crest development: from induction to migration*  
**Roberto Mayor**, Helen Matthews, Lorena Marchant, Carlos Carmona-Fontaine, Sei Kuriyama. Department of Anatomy and Developmental Biology, University College London, UK

3:30–4 PM **Coffee Break**

4–6 PM

**Awards Lectures**

**Miró, Murilo, Picasso and Del Prado**

**Edwin G. Conklin Medal** — Presented by Gail Martin, SDB President  
**Janet Rossant**, Hospital for Sick Children and Univ of Toronto

**Developmental Biology-SDB Lifetime Achievement Award** — Presented by Eric Wieschaus, SDB President-elect  
**Eric Davidson**, CALTECH

**Hamburger Outstanding Educator Prize** — Presented by **Bill Wood**, SDB Professional Development and Education Committee Chair  
**Eugenie Scott**, National Center for Science Education

7:30–11 PM

**Awards Reception and Closing Banquet**

**Goya, Dali and Greco**

Wednesday, June 20, 2007

Departure  
 8 AM–2 PM

**SDB Board of Directors Meeting**

**Tapies**