

C. elegans Development & Evolution Conference Program

Wednesday, June 11, 2008

12 noon – 7:30 pm	Registration Check-In	Annex Room
5:00 pm – 7:00 pm	Opening Reception	Tripp Commons
7:00 pm – 10:00 pm	Platform Session #1 <i>Cell Fate: Embryonic</i> Chairs: Martha Soto and Jeremy Nance	Union Theater
7:00	Opening Comments - Diana Chu & Ahna Skop Introduction - Bob Goldstein	
7:05	Keynote: John White Cell Fate: Embryonic	
7:55	Tala H Fakhouri Defining Pluripotency and Differentiation in the Embryonic Soma Using Gene Expression Analysis and Chromatin Studies	(Lab: Mango)
8:10	Itai Yanai Nature, nurture, and gene regulation	(Lab: Hunter)
8:25	Koji Kyoda Computer Analysis of Quantitative Cell Division Patterns of Early Embryos	(Lab: Onami)
8:40	Morris Maduro Your Pop's a Mom: An E to MS transformation in <i>C. briggsae</i> <i>pop-1(RNAi)</i> embryos	(Lab: Maduro)
8:55 – 9:10	Refreshment Break	Union Theater Lobby
9:10	New and Notable: Jessica M Shivas Anterior embryonic polarity is maintained by dynamin-regulated membrane and actin dynamics	(Lab: Skop)
9:30	Vincent Hyenne <i>C. elegans</i> Brat orthologs regulate PAR protein-dependent embryonic polarity and asymmetric cell division	(Lab: Labbé)
9:45	Brian R Daniels Asymmetric Enrichment of PIE-1 in the <i>C. elegans</i> Zygote Mediated by Diffusion-Controlled Association with P granules	(Lab: Wirtz)
10:00	Erik E Griffin Zygotic MEX-5 Asymmetry Results From Protein Redistribution And May Be Regulated By PAR-1 Phosphorylation	(Lab: Seydoux)

10:15 **Kenji Sugioka** (Lab: Sawa)
 Wnts Regulate Spindle Asymmetry to Produce Asymmetry of Cell Fates

Thursday, June 12, 2008

7:00 am – 7:30 pm **Registration Continues** **Annex Room**

7:30 am – 9:00 am **Breakfast Buffet** **Inn Wisconsin**

9:00 am **Platform Session #2** **Union Theater**

Cell Biology and Muscle

Chairs: Jeffrey Simske Greg Hermann, & Craig LaMunyon

9:00 **Keynote: Michel Labouesse**
 Cytoskeleton and Junction Remodelling during *C. elegans* Embryonic Elongation

9:35 **Sung Min Han** (Lab: M. Miller)
 MSP Domains Are Evolutionarily Conserved Ligands For Eph Receptors

9:50 **Benjamin Podbilewicz** (Lab: Podbilewicz)
 EFF-I and AFF-I, Founders of a Family of Cell-Cell Fusion Proteins in Nematodes

10:05 **Laetitia Chotard** (Lab: Rocheleau)
 Characterization of a Potential Rab7 GAP in Vesicular Trafficking

10:20 **Jan Willem H van Grinkel** (Lab: Stoorvogel)
 A Role for EGG-3 Driven Transfer of MBK-2 to Endosomes During Early Embryogenesis

10:35 – 10:55 Refreshment Break **Union Theater Lobby**

10:55 **New and Notable: Martin Harterink** (Lab: Korswagen)
 SNX-3, an essential Wnt signaling component required for retromer dependent recycling of Wntless in *C. elegans*

11:15 **Erin J Cram** (Lab: Cram)
 CACN-1 (W03H9.4) is a novel, conserved regulator of cell migration and morphogenesis

11:30 **Falshruti Patel** (Lab: Soto)
 The Wave/Scar Complex is Required for the Maintenance of Epithelial Apical/Basal Polarity in *C. Elegans* Embryos

11:45 **Marina Meyerzon** (Lab: Starr)
 The Conventional Kinesin Light Chain, KLC-2, Functions in Nuclear Migration

12:00 **Ronen Zaidel-Bar** (Lab: Hardin)
 Mind the GAP: A Slit-Robo GAP Cooperates with Catenins for Proper Gastrulation Cleft Closure

12:30 pm – 2:00 pm	Luncheon Buffet	Inn Wisconsin
2:00 pm – 5:30 pm	Platform Session #3 <i>Evolution</i> Chairs: Hinrich Schulenburg & Asher Cutter	Union Theater
2:00	Keynote: Scott Emmons Evolutionary Studies with the <i>C. elegans</i> Male	
2:35	Patrick Phillips Evolving toxic New York males: Natural and experimental evolution of sexual conflict within <i>Caenorhabditis</i>	(Lab: Phillips)
2:50	Scott Baird Cryptic variation of ray pattern in <i>Caenorhabditis elegans</i>	(Lab: Baird)
3:05	Andrea Gloria-Soria A Evolutionary mechanisms maintaining the <i>npr-1</i> polymorphism in <i>Caenorhabditis elegans</i>	(Lab: Azevedo)
3:20	Gavin Woodruff Fertile Hybrids Between the Hermaphroditic <i>C. briggsae</i> and a New Male/Female Species, <i>C. sp. 9 JUI325</i>	(Lab: Haag)
3:35 – 3:55	Refreshment Break	Union Theater Lobby
3:55	New and Notable: Matt Rockman Genetic basis of gene expression variation among <i>C. elegans</i> isolates	(Lab: Kruglyak)
4:15	Sara Carvalho Adaptation of <i>C. elegans</i> populations to a laboratory environment: different finish lines for the same race?	(Lab: Teotonio)
4:30	Antoine Barriere Extensive Heterozygosity in the Genomes of Obligately Outcrossing Nematodes: Implications for Genome Assembly and the Evolution of Reproductive Modes	(Lab: Ruvinsky)
4:45	Ray Hong Whole-Genome Sequencing and Analyses of a <i>Pristionchus pacificus</i> “Doppleganger” Strain with Divergent Phenotypes	(Lab: Sommer)
5:00	Dee Denver Natural Variation in <i>C. briggsae</i> Mutation Processes	(Lab: Denver)
5:30 pm – 7:00 pm	Dinner Buffet	Inn Wisconsin
7:00 pm – 11:30 pm	Poster Session #1 & Refreshments (EVEN number posters present) Great Hall & Reception Room (4th floor) <i>Mitosis, Cell Cycle & Cytokinesis (81-95, 270)</i> <i>Cell Biology: Organelles, Cells & Tissues (96 – 108)</i> <i>Cell Adhesion & Migration (109 – 116)</i> <i>Polarity & Cell Fate Determination: Embryonic (117 – 130)</i>	I

Polarity & Cell Fate Determination: Post-embryonic (131 – 151)
 Morphogenesis (152 – 166)
 Sex Determination, Gametogenesis & Meiosis (167 – 204)
 Germline (205 – 236)

Main Lounge (2nd floor)

Evolution of Development (237 – 246)
 Microevolution & Evolutionary Genomics (247 – 258)
 Cell Death (259 – 269)

Friday, June 13, 2008

7:30 am – 9:00 am Breakfast Buffet **Inn Wisconsin**

9:00 am – 12:30 pm **Platform Session #4** **Union Theater**

Cell Death

Chairs: Xiachen Wang & Zheng Zhou

9:00

Keynote: Ding Xue

Cell Death

9:35

Sara Andux

Apoptosis Maintains Oocyte Quality in Aging *C. elegans*

(Lab: Ellis)

9:50

Chonglin Yang

Regulation of DNA Damage-induced Apoptosis by Protein Arginine Methylation in *C. elegans*

(Lab: Yang)

10:05

Xin Li

Ephrin Signaling Acts through Ras/MAPK to Promote *C. elegans* Germline Cell Death

(Lab: Chamberlin)

10:20

Mike Hurwitz

abl-1 Suppresses the Engulfment of Apoptotic Cells through a Novel Pathway that Contains *abi-1*

(Lab: Horvitz)

10:35 – 10:55

Refreshment Break

Union Theater Lobby

10:55

New and Notable: Anton Gartner

C. elegans SIR-2.1 translocation is linked to a proapoptotic pathway parallel to cep-1/p53-like during DNA damage induced apoptosis

(Lab: Gartner)

11:15

Nan Lu

CED-1 Pathway Promotes the Degradation of Apoptotic Cells in *C. elegans*

(Lab: Zhou)

11:30

Elyse S Blum

TIR-1 and SEK-1/MAPKK Promote the Novel Morphologically Conserved Death of the Linker Cell

(Lab: Shaham)

11:45

Agnes K.Y. Hui

ER Stress induced Autophagy-regulated Cell Death in *C. elegans*

(Lab: Chow)

12:00	Vince Contreras <i>C. elegans</i> eIF4G Isoforms Mediate Germline Apoptosis Through The Expression Of Apaf-1/CED-4	(Lab: Keiper)
12:30 pm – 2:00 pm	Luncheon Buffet	Inn Wisconsin
2:00 pm – 5:30 pm	Platform Session #5 <i>Germline</i> Chairs: Michael Miller & Gyorgyi Csankovszki	Union Theater
2:00	Keynote: Samuel Ward Early worms and how things get built	
2:35	Ekaterina Voronina Nup98/NPP-10: a Conserved Link between Nuclear Pores and P granules	(Lab: Seydoux)
2:50	Jennifer Schisa Large P body-like RNPs in <i>C. elegans</i> Oocytes Form in Response to Arrested Ovulation, Heat Shock, Osmotic Stress, and Anoxia and are Regulated by the Major Sperm Protein Pathway	(Lab: Schisa)
3:05	David Katz Epigenetic Reprogramming by LSD I Contributes to Germline Immortality in <i>C. elegans</i>	(Lab: Kelly)
3:20	Tamara McEwen <i>miR67</i> and <i>miRNA83</i> Appear to Activate the Translation of GLH-1 in the <i>C. elegans</i> Germline	(Lab: Bennett)
3:35 – 3:55	Refreshment Break	Union Theater Lobby
3:55	New and Notable: Maia Dorsett <i>let-42</i> and <i>dynein light chain-1</i> Inhibit the Proliferative Fate in the <i>C. elegans</i> germline	(Lab: Schedl)
4:15	Olivier Cinquin The State of Germ Cell Differentiation in the <i>C. elegans</i> Mitotic Region in Controlled by Position and Timing	(Lab: Kimble)
4:30	Hua Cheng Regulated Trafficking of the MSP/Eph Receptor during Oocyte Meiotic maturation	(Lab: Greenstein)
4:45	Tugba Guven-Ozkan Global transcriptional repression in the <i>C. elegans</i> germline precursors by regulated sequestration of the TFIID component TAF-4	(Lab: Lin)
5:00	Christian Eckmann The NTD containing protein GLD-4 regulates redundantly with GLD-2 germ cell fate decisions in <i>C. elegans</i>	(Lab: Eckmann)
5:30 pm – 7:00 pm	Dinner Buffet	Inn Wisconsin

7:00 pm – 8:30 pm

Workshops

Caenorhabditis evolution
In situ hybridization in *C. elegans* and other species
How to create Scientific images with subconscious appeal

**Playcircle
Beefeaters
Old Madison**

7:00 pm

Poster Session #2 & Refreshments

(**ODD** numbered posters present)

Great Hall & Reception Room (4th floor)

Mitosis, Cell Cycle & Cytokinesis (81-95, 270)
Cell Biology: Organelles, Cells & Tissues (96 – 108)
Cell Adhesion & Migration (109 – 116)
Polarity & Cell Fate Determination: Embryonic (117 – 130)
Polarity & Cell Fate Determination: Post-embryonic (131 – 151)
Morphogenesis (152 – 166)
Sex Determination, Gametogenesis & Meiosis (167 – 204)
Germline (205 – 236)

Main Lounge (2nd floor)

Evolution of Development (237 – 246)
Microevolution & Evolutionary Genomics (247 – 258)
Cell Death (259 – 269)

Saturday, June 14, 2008

7:30 am – 9:00 am

Breakfast Buffet

Inn Wisconsin

9:00 am – 12:30 pm

Platform Session #6

Cell Cycle, Mitosis & Cytokinesis
Chairs: Monica Gotta & Danielle Hamill

Union Theater

9:00

Keynote: Julie Ahringer

Cell Cycle, Mitosis & Cytokinesis

9:35

Marjolein Wildwater

(Lab: van den Heuvel)

Regulation of Asymmetric Cell Division During Development of the Post-embryonic Seam Cell Lineage

9:50

Julie C Canman

(Lab: Oegema)

The GAP domain of CYK-4 is required for cytokinesis independent of central spindle assembly in *C. elegans* embryos

10:05

Kirsten Hagstrom

(Lab: Hagstrom)

Mitotic Condensins are Required for RNAi and Chromatin-Based Gene Silencing

10:20

Erkang Ai

(Lab: Skop)

RACK-1 Regulates RAB-11-dependent Endosomal Recycling via Dynactin During Mitosis

10:35 – 10:55

Refreshment Break

Union Theater Lobby

10:55	New and Notable: Risa Kitagawa The san-1/MAD3 Synthetic Lethal Screen Identified a Kinetochore Receptor of MDF-1/MAD1 in <i>C. elegans</i>	(Lab: Kitagawa)
11:15	Mi Hye Song The RNA-Binding Protein SZY-20 and the Kinase ZYG-1 Function Antagonistically to Define Centrosome Size	(Lab: O'Connell)
11:30	David M Rivers PAR proteins direct asymmetry of the cell cycle regulators Polo-like kinase and Cdc25	(Lab: Ahringer)
11:45	Daiju Kitagawa Phosphorylation of SAS-6 by ZYG-1 is required for Centriole Formation in <i>C. elegans</i> Embryos	(Lab: Gönczy)
12:00	Christopher T Richie Characterization of Genetic Suppressors of Separase	(Lab: Golden)
12:30 pm – 2:00 pm	Luncheon Buffet	Inn Wisconsin
2:00 pm	Workshops One-on-One 30-minute sessions working on your illustrations, talks or posters	Capital View
2:00 pm – 5:30 pm	Platform Session #7 <i>Cell Fate: Post-Embryonic, Morphogenesis</i> Chairs: Morris Maduro & Rafal Ciosk	Union Theater
2:00	Keynote: Susan Mango Cell Fate: Post-Embryonic and Morphogenesis	
2:35	Daniel J Marston MRCK drives apical constriction in <i>C. elegans</i> gastrulation by activating myosin	(Lab: Goldstein)
2:50	Sophie Jarriault Deciphering cell plasticity in <i>C. elegans</i>	(Lab: Jarriault)
3:05	Craig E Stone Lipocalin signaling controls morphogenesis in the excretory system	(Lab: Sundaram)
3:20	Grigorios Oikonomou <i>lit-1/NLK</i> functions downstream of <i>daf-6/patched</i> in amphid lumen morphogenesis	(Lab: Shaham)
3:35-3:55	Refreshment Break	Union Theater Lobby
3:55	New and Notable: Elke PF Klerkx Role of VRK-1 in <i>C. elegans</i> vulva and uterus development	(Lab: Askjaer)
4:15	Nirav M Amin The Six2 homeodomain protein CEH-34 functions downstream of Wnt signaling for proper fate specification in the postembryonic mesoderm	(Lab: Liu)

4:30	Kota Mizumoto LIT-1/Nemo-like kinase regulates nuclear asymmetry of WRM-1/Beta-catenin during asymmetric seam cell division	(Lab: Sawa)
4:45	Attila Stetak The MAGI-1 protein functions as an organizer of LET-23 localization to the adherens junctions	(Lab: van den Heuvel)
5:00	Ryan B Smit The Role of HLH-6 in <i>C. elegans</i> Pharyngeal Gland Development and Function	(Lab: Gaudet)

5:30 pm – 7:00 pm	Dinner Buffet	Inn Wisconsin
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7:00 pm	Poster Session #3 & Refreshments ODD numbered posters presenting 7-8 pm EVEN numbered posters presenting 8-9 pm	
	Great Hall & Reception Room (4th floor) <i>Mitosis, Cell Cycle & Cytokinesis (81-95, 270)</i> <i>Cell Biology: Organelles, Cells & Tissues (96 – 108)</i> <i>Cell Adhesion & Migration (109 – 116)</i> <i>Polarity & Cell Fate Determination: Embryonic (117 – 130)</i> <i>Polarity & Cell Fate Determination: Post-embryonic (131 – 151)</i> <i>Morphogenesis (152 – 166)</i> <i>Sex Determination, Gametogenesis & Meiosis (167 – 204)</i> <i>Germline (205 – 236)</i>	
	Main Lounge (2nd floor) <i>Evolution of Development (237 – 246)</i> <i>Microevolution & Evolutionary Genomics (247 – 258)</i> <i>Cell Death (259 – 269)</i>	

7:00 pm	Workshops One-on-One 30-minute sessions working on your illustrations, talks or posters	Capital View
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9:30 pm – 12 midnight	Dance	Tripp Commons
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Sunday, June 15, 2008

7:30 am – 9:00 am	Breakfast Buffet	Inn Wisconsin
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9:00 am – 12:30 pm	Platform Session #8 <i>Gametogenesis, Meiosis & Sex Determination</i> Chairs: Raymond Chan & Enrique Martinez-Perez	Union Theater
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9:00	Keynote: Barbara Meyer Gametogenesis, Meiosis, & Sex Determination	
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9:35	Emily L Petty HTZ-1, the <i>C. elegans</i> H2A.Z Histone Variant, Functions in Dosage Compensation	(Lab: Csankovszki)
9:50	Steven W L'Hernault The Mind Bomb Homolog SPE-16 is Required for Sperm Maturation and Facilitates LIN-12/Notch Signaling During a Cell Fate Decision in <i>C. elegans</i>	(Lab: L'Hernault)
10:05	Meredith H Price Meiotic Spindle Assembly and Function in <i>C. elegans</i>	(Lab: Bowerman)
10:20	Michael F Palopoli Molecular Basis of the Copulatory Plug Polymorphism	(Lab: Palopoli)
10:35-10:55	Refreshment Break	Union Theater Lobby
10:55	New and Notable: Susanna Mlynarczyk-Evans Visualizing Homologous Chromosome Pairing in <i>C. elegans</i> Meiosis	(Lab: Villeneuve)
11:15	Aimee Jaramillo-Lambert Analysis of sex-specific differences in <i>C. elegans</i> meiosis	(Lab: Engebrecht)
11:30	Cynthia R Wagner GAK-1, an autosomal binding protein, is required for proper X chromosome segregation	(Lab: Yanowitz)
11:45	Ceyda Bilgir PGL-1, a protein associated with P granules, is required for meiotic homologous	(Lab: Nabeshima)
12:00	Takamune T Saito HIM-18 is required for genome integrity in the <i>C. elegans</i> germline	(Lab: Colaiacovo)
12:20	Closing Comments & Collections of Evaluations- Monica Colaiacovo/Diana Chu/Ahna Skop	
12:30 pm – 2:00 pm	Luncheon Buffet	Inn Wisconsin

Keynote speakers were kindly sponsored by the Company of Biologists Ltd