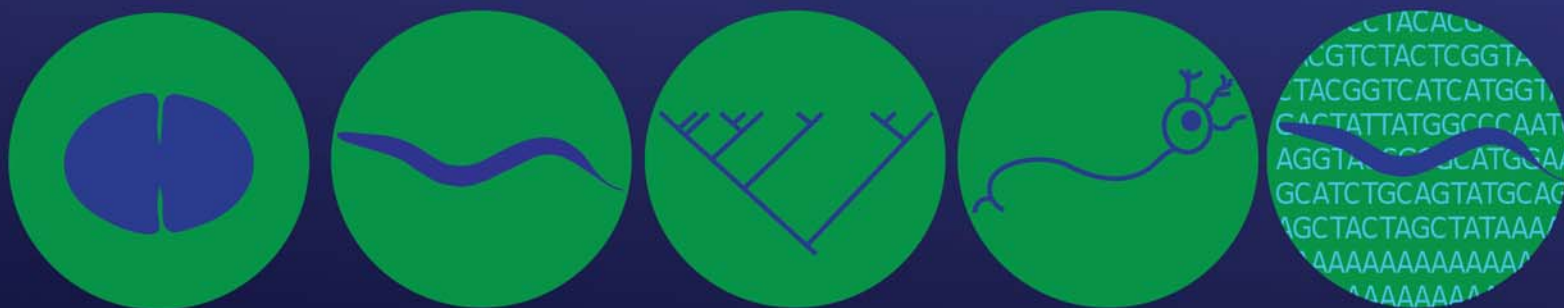




The Genetics Society of America Conferences



18th International *C. elegans* Meeting



June 22–26, 2011
University of California
Los Angeles, California

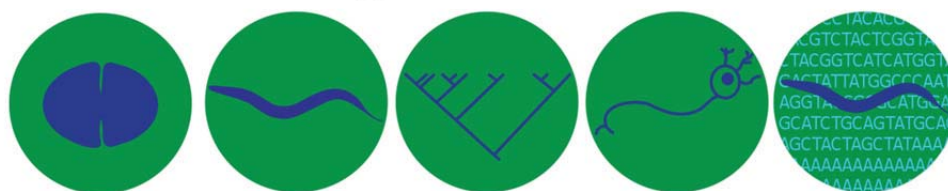
Program Guide



The Genetics Society of America Conferences



18th International *C. elegans* Meeting



2011 *C. elegans* Meeting Organizing Committee

Co-chairs:

Oliver Hobert Columbia University
Meera Sundaram University of Pennsylvania

Organizing Committee:

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Sponsored by The Genetics Society of America
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Web site: <http://www.genetics-gsa.org>

Front cover design courtesy of Ahna Skop

Table of Contents

Schedule of All Events.....	4
Maps	
University of California, Los Angeles, Campus	7
University of California, Los Angeles, Northwest Sector	8
General Information.....	9
Exhibitors	12
Workshops	14
Plenary and Parallel Session Listings	19
Poster Session Listings	36
Author Index	74
Gene Index to Abstracts.....	94
Preregistered Attendee List as of May 25, 2011	104
Company Sponsored Ads.....	115

Please note: Abstracts published in this book should not be cited in bibliographies. Material contained herein should be treated as personal communication and should be cited as such only with the consent of the author.

Schedule of Events

WEDNESDAY, June 22

1:00 pm - 9:00 pm	Registration	Sunset Village Plaza
7:00 pm - 10:00 pm	Plenary Session 1 <i>Chairs:</i> Cynthia Kenyon and Jonathan Hodgkin	Royce Hall
7:00 pm	Invited Speaker Andrew Dillin, Salk Institute, La Jolla, CA Control of protein homeostasis from a distance: the expanding world of stress-kines	
10:00 pm - 11:30 pm	Opening Mixer	Royce Quad

THURSDAY, June 23

8:00 am - 1:00 pm	Registration	Covel Commons
8:00 am - 8:00 pm	"A" Authors may display posters after 8:00 am and the posters MUST be taken down by 11:00 pm.	Wooden Center - Collins Court
9:00 am - 12:00 noon	Parallel Sessions I	
	Physiology I: Aging and Stress <i>Chairs:</i> Sivan Korenblit and Yamei Wang	Ackerman Grand Ballroom
	Neurobiology I: Behavior <i>Chairs:</i> Sreekanth Chalasani and Kotara Kimura	Grand Horizon Ballroom
	Development and Evolution I: Fate, Evolution and Timing <i>Chairs:</i> Takao Inoue and Shih-Peng Chan	De Neve Auditorium
	Cell Biology I: Cell Division and Chromosome Dynamics, Polarity <i>Chairs:</i> Needhi Bhalla and Gyorgi Csankovszki	Northwest Auditorium
12:15 pm - 1:15 pm	Genetics Society of America Careers Lunch	De Neve Private Dining Room
1:30 pm - 4:45 pm	Plenary Session 2 <i>Chairs:</i> Susan Strome and Paul Sternberg	Royce Hall
1:30 pm	Invited Speaker Geraldine Seydoux, Johns Hopkins School of Medicine, Baltimore, MD Breaking symmetry: polarization of the C. elegans embryo	
5:00 pm - 6:30 pm	Concurrent Workshops	
	Monitoring and manipulating C. elegans Behavior <i>Organizers:</i> Chris Fang-Yen and Hang Lu	De Neve Auditorium
	Germline Aging <i>Organizers:</i> Ronald Ellis, David Greenstein and Heidi Tissenbaum	Northwest Auditorium
	Evolution and Ecology <i>Organizers:</i> Asher Cutter and Marie-Anne Felix	Plaza Room
	Unique Advantages of C. elegans for Pioneering Metabolic Studies <i>Organizers:</i> Amy Walker and Marc Van Gilst	Bradley International Ballroom
	Imaging: acquisition, analysis and presentation of information <i>Organizers:</i> Bill Mohler and Zhirong Bao	Grand Horizon Ballroom
7:00 pm - 8:00 pm	Genetics Society of America Faculty Mentoring Social Host: Martin Chalfie	Grand Horizon Ballroom

Schedule of Events

7:30 pm - 8:30 pm	Teaching Workshop I What is Life Like at a Predominantly Undergraduate (i.e. Teaching) Institution and How Can I Get a Job at One? <i>Organizer: Jennifer Miskowski</i>	Northwest Auditorium
8:00 pm - 11:00 pm	Poster Session 1/Exhibits/Art Show <i>8:00 pm - 9:30 pm Presenters of all even "A" posters</i> <i>9:30 pm - 11:00 pm Presenters of all odd "A" posters</i>	Wooden Center - Collins Court
10:00 pm - 12:00 am	Evening Social	Wooden Center - Collins Court

FRIDAY, June 24

8:00 am - 8:00 pm	"B" Authors may display posters after 8:00 am and the posters MUST be taken down by 11:00 pm.	Wooden Center - Collins Court
8:30 am - 12:30 pm	Registration	Covel Commons
9:00 am - 12:00 noon	Parallel Sessions II	
	Physiology II: Aging and Stress, Dauer Larvae and Metabolism <i>Chairs: Supriya Srinivasan and Anat Ben Z'vi</i>	Ackerman Grand Ballroom
	Neurobiology II: Behavior, Synapses and Regeneration <i>Chairs: Roger Pocock and Chieh Chang</i>	Royce Hall
	Gene Regulation and Genomics I: Gene Expression and Genomics <i>Chairs: Antony Jose and Itai Yanai</i>	Grand Horizon Ballroom
	Development and Evolution II: Evolution and Germline/Sex Determination <i>Chairs: Swathi Arur and Matthew Rockman</i>	Northwest Auditorium
12:15 pm - 1:15 pm	Getting published: process and tips - GSA-sponsored lunch	De Neve Private Dining Room
1:30 pm - 4:30 pm	Plenary Session 3 <i>Chairs: Ikue Mori and Leon Avery</i>	Royce Hall
1:30 pm	Invited Speaker Yuichi Iino, Univ. of Tokyo, Japan	
	Sensing Salt: Plasticity in Sensory System and Behavioral Responses	
5:00 pm - 6:00 pm	Plenary Session 4 <i>Chair: David Hall</i>	Royce Hall
5:00 pm	Keynote Speaker Joseph Culotti, Samuel Lunenfeld Research Institute, Toronto, Canada	
	Mechanisms that regulate UNC-6/netrin mediated axon guidance in <i>C. elegans</i>	
7:30 pm - 8:30 pm	Teaching Workshop II Achieving Tenure and Promotion: Tips on Proposals, Publications, and Portfolios. <i>Organizer: Jennifer Miskowski</i>	Northwest Auditorium
8:00 pm - 11:00 pm	Poster Session 2/Exhibits/Art Show <i>8:00 pm - 9:30 pm Presenters of all even "B" posters</i> <i>9:30 pm - 11:00 pm Presenters of all odd "B" posters</i>	Wooden Center - Collins Court
10:00 pm - 12:00 am	Evening Social	Wooden Center - Collins Court

Schedule of Events

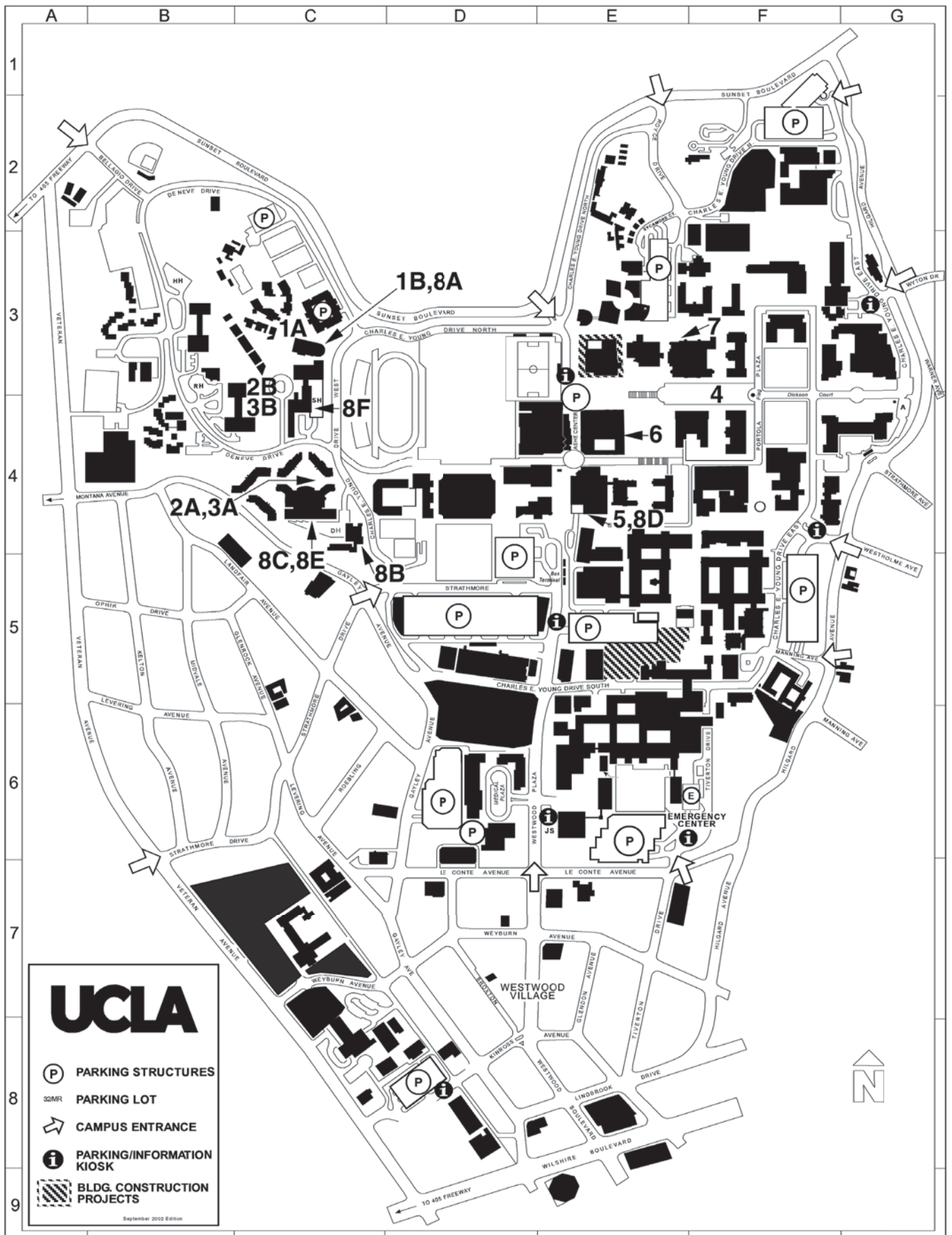
SATURDAY, June 25

8:00 am - 1:30 pm	"C" Authors may display posters after 8:00 am and the posters MUST be taken down by 4:30 pm.	Wooden Center - Collins Court
8:30 am - 12:30 pm	Registration	Covel Commons
9:00 am - 12:00 noon	Parallel Sessions III	
	Physiology III: Metabolism and Pathogenesis <i>Chairs:</i> Alejandro Aballay and Emily Troemel	De Neve Auditorium
	Neurobiology III: Neuronal Development and Death <i>Chairs:</i> Chiou-Fen Chuang and Max Heiman	Grand Horizon Ballroom
	Cell Biology II: Cell Polarity and Morphogenesis <i>Chairs:</i> Martin Srayko and Vincent Galy	Northwest Auditorium
	Gene Regulation and Genomics II: Genomics, RNA Interference and small RNAs <i>Chairs:</i> Chris Hammell and Allison Abbott	Ackerman Grand Ballroom
12:30 pm - 2:30 pm	Teaching Workshop III Educating Scientists for the 21st Century: Focus on High-Impact Learning Strategies <i>Organizer:</i> Jennifer Miskowski	Northwest Auditorium
1:30 pm - 4:30 pm	Poster Session 3/Exhibits/Art Show <i>1:30 pm - 3:00 pm Presenters of all even "C" posters</i> <i>3:00 pm - 4:30 pm Presenters of all odd "C" posters</i>	Wooden Center - Collins Court
4:45 pm - 6:30 pm	Plenary Session 5: Workshop <i>Chairs:</i> Oliver Hobert and Meera Sundaram	Royce Hall
4:45 pm	WormBase Paul Sternberg, CalTech	
5:10 pm	Worm modENCODE Valerie Reinke, Yale University	
5:35 pm	Whole Genome Sequencing Sophie Jarriault, IGBMC; and Maria Doitsidou, Columbia University	
6:00 pm	Manipulating the Genome Jean-Louis Bessereau, INSERM; and Barbara Meyer, Univ. of CA, Berkeley	
6:30 pm - 8:00 pm	Conference Barbecue Refreshments sponsored by Kramer Scientific	Royce Quad
8:00 pm - 8:15 pm	Worm Art Show Awards	Royce Hall
8:30 pm - 9:00 pm	Worm Comedy Show	Royce Hall
9:00 pm - 11:30 pm	Conference Party	Ackerman Grand Ballroom

SUNDAY, June 26

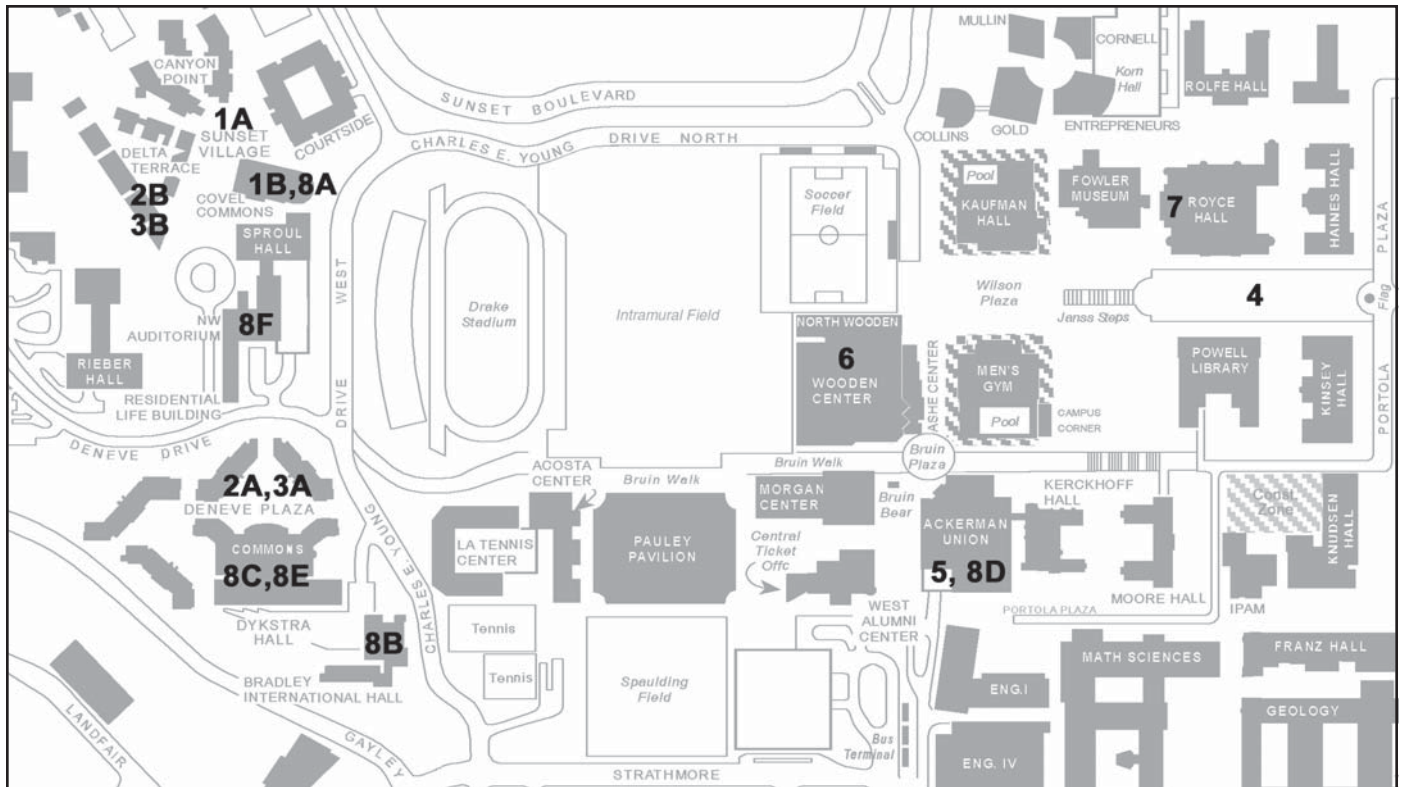
9:00 am - 12:00 noon	Plenary Session 6 <i>Chairs:</i> Barbara Meyer and Victor Ambros	Royce Hall
9:00 am	Invited Speaker Fabio Piano, New York University, NY	
10:45 am - 11:00 am	Early C. elegans development: a systems view Genetics Society of America Awards <i>Student/Postdoc Poster Awards and</i> <i>The GSA Novitski Prize presented to Abby Dernburg</i>	Royce Hall

UNIVERSITY OF CALIFORNIA, LOS ANGELES, CAMPUS



Please refer to legend on next page.

UNIVERSITY OF CALIFORNIA, LOS ANGELES, CAMPUS
Northwest Sector



Legend

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|--|---|
| <p>1. Registration</p> <p style="padding-left: 20px;">A. Sunset Village Plaza</p> <p style="padding-left: 20px;">B. Covell Commons</p> <p>2. Residence Halls</p> <p style="padding-left: 20px;">A. De Neve Plaza</p> <p style="padding-left: 20px;">B. Sunset Village</p> <p>3. Cafeterias</p> <p style="padding-left: 20px;">A. De Neve Plaza</p> <p style="padding-left: 20px;">B. Sunset Village Dining Hall</p> <p>4. Saturday Night Barbecue: Royce Quad</p> <p>5. Conference Party: Ackerman Grand Ballroom</p> | <p>6. Poster Sessions/Exhibits/Art Show: Wooden Center</p> <p>7. Plenary Sessions</p> <p>8. Parallel Sessions/Workshops</p> <p style="padding-left: 20px;">A. Grand Horizon Ballroom</p> <p style="padding-left: 20px;">B. Bradley International Ballroom</p> <p style="padding-left: 20px;">C. De Neve Auditorium</p> <p style="padding-left: 20px;">D. Ackerman Grand Ballroom</p> <p style="padding-left: 20px;">E. De Neve Plaza Room</p> <p style="padding-left: 20px;">F. Northwest Auditorium</p> |
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General Information

Registration and Information Desk

The Conference registration desk will be open according to the following schedule:

Wednesday, June 22	1:00 pm – 9:00 pm	Sunset Village Plaza
Thursday, June 23	8:00 am – 1:00 pm	Covel Commons
Friday, June 24	8:30 am – 12:30 pm	Covel Commons
Saturday, June 25	8:30 am – 12:30 pm	Covel Commons

Instructions for Speakers

Please arrive 60 minutes before the beginning of your session with your CD, zip disk or memory stick to load your presentation on the MAC meeting computer. If you plan to show Quicktime movies, please DO NOT attach them to your presentation. You should include them as separate files on the disk/stick and be prepared to place them back into your presentation after loading on the meeting computer. All plenary speakers should go to the back of Royce Hall and enter through the door marked “Artist’s Entrance”.

Poster Sessions

All posters will be displayed in the Wooden Center – Collins Court. Presenters may mount abstracts beginning at 8:00 am on the day of their presentation. All abstracts will be up for one day. Authors will present according to the following schedule:

Thursday, June 23	8:00 pm – 9:30 pm	Presenters of all even “A” posters
	9:30 pm – 11:00 pm	Presenters of all odd “A” posters
Friday, June 24	8:00 pm – 9:30 pm	Presenters of all even “B” posters
	9:30 pm – 11:00 pm	Presenters of all odd “B” posters
Saturday, June 25	1:30 pm – 3:00 pm	Presenters of all even “C” posters
	3:00 pm – 4:30 pm	Presenters of all odd “C” posters

All presenters should remove their abstracts at the end of their poster session. After that time, remaining posters will be removed and may be lost or thrown away. The meeting does not take responsibility for posters that are not removed on time. Wooden Center – Collins Court will be open at the following times for poster viewing:

Thursday, June 23	8:00 am – 11:00 pm
Friday, June 24	8:00 am – 11:00 pm
Saturday, June 25	8:00 am – 4:30 pm

Abstracts must be removed by 4:30 pm on Saturday, June 25. After that time, remaining posters will be removed and may be lost or thrown away. The posterboards will be removed starting at 4:30 pm on Saturday, June 25.

Mobile Web Site

NEW THIS YEAR - Bookmark the schedule of events and attendee list on your web enabled mobile device. You can access it at: <http://m.celegans.org>

General Information

Poster Competition

Poster prizes will be awarded to graduate students. Judges attempt to visit each poster at the time when the authors are presenting. The competition is open to posters from graduate students that are the first and presenting author on the abstract. Authors indicated at the time of their abstract submission that they wanted to be considered for the competition. An asterisk is next to the poster numbers on the posterboard to indicate they are to be considered for the award.

C. elegans Art Show

The C. elegans Art Show will be in Wooden Center – Collins Court throughout the poster viewing time. The prizes will be awarded on Saturday, June 25 at 8:15 in Royce Hall, prior to the Worm Comedy Show.

Social Events

Opening Mixer, Wednesday, June 22: Meet friends and colleagues at the Opening Mixer in Royce Quad immediately following Plenary Session 1. Complimentary beer, wine and sodas will be available.

Evening Socials, Thursday, June 23 and Friday, June 24: There will be evening socials in the Wooden Center immediately following the poster sessions, 11:00 pm – 12:00 midnight. Complimentary beer, wine and sodas will be available.

Genetics Society of America Careers Luncheon, Thursday, June 23: The GSA Careers Luncheon is an excellent opportunity for undergraduates, graduate students, and postdoctoral fellows to have informal conversations with senior career scientists regarding the unique challenges and rewards of a scientific career. The luncheon is organized by topic table. Topics may include: transition to independence, work-family balance, teaching at undergraduate institutions, non-academic careers for scientists, the when, how, and why of networking, dealing with difficult colleagues, etc. The lunch will be held in the Private Dining Room (PDR) in the De Neve Cafeteria. No need to register. After getting your lunch, you can proceed to the private dining room to get a seat.

Genetics Society of America Faculty Mentoring Social, Thursday, June 23: Martin Chalfie is hosting this event which is organized by senior *C. elegans* faculty for current and recently hired junior faculty members. New faculty members will be introduced followed by informal discussion. Heads of *C. elegans* laboratories are all encouraged to attend. The Social will take place on the Grand Horizon Ballroom Terrace from 7:00 pm to 8:00 pm.

GSA Undergraduate Experience, Thursday, June 23: This event provides students from genetics classes at local undergraduate institutions with the unique opportunity to observe distinguished career scientists present their current research in a conference setting. The students, accompanied by their professors, will receive a background lecture and participate in an interactive discussion before attending part of a plenary session. This informative and engaging program is meant to give students a glimpse into the real world of genetic research. Participation is by invitation only.

Genetics Society of America Journals Luncheon, Friday, June 24: Getting published: process and tips: This lunch is an excellent opportunity for graduate students, postdoctoral fellows and undergraduate students to have informal conversations with GENETICS and G3 journal editors about the peer-review and scientific publishing process in general, and more specifically, in the GSA's two journals.

Saturday Evening Events, June 25: A barbecue is planned for 6:30 pm – 8:00 pm in Royce Quad. Refreshments for the barbecue are provided by Kramer Scientific. The *C. elegans* Art Show awards will be presented at 8:15 pm in Royce Hall followed by the Worm Comedy Show, 8:30 pm – 9:00 pm. The conference party will be held 9:00 pm – 11:30 pm in the Ackerman Grand Ballroom. Beer, wine and soft drinks will be available.

General Information

Meal Times

	De Neve Plaza Commons	Covel Dining Hall
Breakfast	7:00 am – 9:00 am	7:00 am – 10:00 am
Lunch	11:00 am – 2:00 pm	11:30 am – 2:00 pm
Dinner	5:00 pm – 8:00 pm	5:00 pm – 9:00 pm

Internet Access

UCLA provides a complimentary computer lab in De Neve Plaza and in the Covel Business Center (next to Sunset Village) for guests to check their e-mails. The hours are:

Monday – Thursday, June 20 - 23	7:30 am – 8:00 pm
Friday, June 24	7:30 am – 6:00 pm
Saturday, June 25	9:00 am – 6:00 pm
Sunday, June 26	12:00 noon – 5:00 pm

Attendees staying on campus who bring their own laptop computers can access the Internet directly via the Ethernet port in their sleeping rooms. In order to access the Internet, guest must have the Ethernet card on their computer software and an Ethernet cable. If you do not have your own Ethernet card or cable, you may purchase one through the Covel Business Center.

Attendees should go to the Covel Business Center to get a bruin-online guest access account for the WiFi that is available in the meeting rooms and the poster session.

Recreational Facilities

Campus recreation facilities are available for residential meeting attendees. The meal/access card, provided with each room key at check-in, allows admission to all the recreation facilities. The John Wooden Center and Sunset Canyon Recreational Center include swimming pools, weight rooms, tennis courts, racquetball courts and handball courts. Attendees not staying on campus may use the facilities with payment.

Message Boards

Message boards are located in the Poster Session in the Wooden Center – Collins Court.

Meeting Announcements/Employment Opportunities/Seeking Employment Notices

Individuals and institutions offering or seeking employment may post notices and resumes on the “Employment Opportunities” bulletin boards in Wooden Center – Collins Court. Meetings of interest to *C. elegans* researchers may post announcements on the boards provided.

Smoking

Smoking is allowed only in designated outdoor areas.

Exhibitors

As exhibitors at the 18th International *C. elegans* Meeting, the following companies have contributed to the support of this meeting. Registrants are encouraged to visit the exhibits in the Wooden Center – Collins Court during the Poster Sessions.

Gatan, Inc.
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Pleasanton, CA 94588
Tel: 925-463-0200
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Gatan designs and manufactures instruments and products for electron microscopy. Gatan's products are used in a broad range of advanced cell and developmental biology applications. Researchers use Gatan's products to acquire critical information and insight into the ultrastructure of complex organisms. Specific to *Caenorhabditis elegans* analysis, Gatan's ultramicrotome, 3View®, utilizes state-of-the-art serial block face imaging by scanning electron microscopy (SEM) to create detailed three-dimensional reconstruction of the worm ultrastructure.

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Amesbury, MA 01913
Tel: 978-388-7159
Email: abby@kramerscientific.com
Website: www.kramerscientific.com

Kramer Scientific LLC designs Fluorescence Microscopes ideally suited for *C. elegans* research. The M2Bio and FBS10 Systems provide Multiwavelength Fluorescence Microscopy in a hybrid platform that combines Stereo and Compound viewing. The FSM25 is a low cost, highbrightness fluorescence stereo unit for rapid GFP screening with CoolLED illumination.

**Sponsor of the refreshments at the Conference
Barbecue on Saturday, June 25.**

Leica Microsystems
1700 Leider Lane
Buffalo Grove, IL 60089
Tel: (800) 248-0123
E-mail: info@leica-microsystems.com
Website: www.leica-microsystems.com

Leica Microsystems, a world leader in micro imaging, will display the latest in fluorescence stereomicroscopy and compound imaging solutions. Leica's inverted microscopes and digital cameras will also be featured. Fluorescence applications in gene expression, transgenics, and developmental biology will benefit from Leica Microsystems imaging systems.

MBF Bioscience
185 Allen Brook Lane
Williston, VT 05495
Tel: 802-288-9290
Email: info@mbfbioscience.com
Website: www.mbfbioscience.com

MBF Bioscience helps scientists extract better data from their microscope images. We develop image acquisition, analysis and collaboration software which we combine with microscopes, advanced cameras and motorized stages from the world's leading manufacturers to create fully integrated microscope research systems. MBF's customer service provides full support for our systems.

Olympus
3500 Corporate Parkway
Center Valley, PA 18034

Olympus is a precision technology leader, creating innovative opto-digital solutions in healthcare, life science and consumer electronics products. Olympus provides innovative microscope imaging solutions for doctors, clinicians, researchers, and educators. Olympus microscope systems offer unsurpassed optics, superior construction and system versatility to meet the ever-changing needs of microscopists.

Exhibitors

Union Biometrica, Inc.
84 October Hill Road
Holliston, MA 01746
Tel: 508-893-3115
E-mail: thofhuis@unionbio.com
Website: www.unionbio.com

Union Biometrica Large Particle Flow Cytometers automate the analysis, sorting and dispensing of objects too big/fragile for traditional cytometers, e.g., small model organisms like *C. elegans*, large cells/cell clusters, and beads. COPAS or new BioSorter with interchangeable modules to cover the full 10-1500µm range – ideal for shared instrument grants.

WormBase Consortium
Caltech 156-29
1200 E. California Blvd.
Pasadena, CA 91125
Tel: 626-395-2686
Email: help@wormbase.org
Website: www.wormbase.org

WormBase is an international consortium of biologists and computer scientists dedicated to providing the research community with accurate, current, accessible information concerning the genetics, genomics and biology of *C. elegans* and some related nematodes. WormBase curators and web developers will collect questions and suggestions during the poster sessions.

WormImage and WormAtlas
Center for *C. elegans* Anatomy
AECOM
1410 Pelham Parkway
Bronx, NY
Tel: 718-430-2195
Url: www.wormimage.org; www.wormatlas.org

We will demonstrate new versions of the online databases WormImage and WormAtlas. WormImage 2.0 features a new look and search interface, making its extensive collection of TEM data more accessible to users. WormAtlas is available in a new format optimized for access from mobile devices and offers more new content.

Workshops

Thursday, June 23 5:00 PM–6:30 PM

Monitoring and manipulating *C. elegans* Behavior

Room: De Neve Auditorium

Organizers: **Chris Fang-Yen** and **Hang Lu**

This workshop will discuss the latest developments in microfluidics, optogenetics, and tracking methods. Information on how to construct and use these systems will be covered, as well as advantages and limitations of different approaches.

Thursday, June 23 5:00 PM–6:30 PM

Germline Aging

Room: Northwest Auditorium

Organizers: **Ronald Ellis**, **David Greenstein** and **Heidi Tissenbaum**

This workshop is aimed at promoting the development of *C. elegans* as a model for studying human reproductive aging. As females age, the quality of the oocytes they produce declines dramatically. One cause is an increasing chance of errors in chromosome segregation, but other factors are important as well. This maternal-age effect in human reproduction is the single largest cause of human birth defects, miscarriage, and infertility. Human male reproductive aging is also an active area of research because there is evidence that the incidence of autism spectrum disorders correlates positively with paternal age. Because nematodes have tremendous advantages for research, including genetic, genomic and ultrastructural resources, and have already become one of the leading models for studying germ cells, aging, apoptosis and checkpoint regulators, they are ideal for studying how aging affects reproduction. In addition, it is clear that the germ line has a major influence on somatic aging in worms. This workshop is designed to bring together the community of researchers studying aging and the germ line to promote the development of the field.

Speakers include:

Ronald Ellis: Introduction

David Hall: Progressive loss of nuclear integrity in aging germ line

Simon Melov: Age-related cancer of the germ line and stochastic loss of intestinal nuclei

First period for questions and discussion

David Greenstein: *C. elegans* as a model for the maternal-age effect in human reproduction: comparisons and contrasts

Coleen Murphy: IIS and TGF-beta regulation of reproductive aging and oocyte quality

Anton Gartner: Regulation of oocyte quality by checkpoint proteins

Second period for questions and discussion

Workshops

Thursday, June 23 5:00 PM–6:30 PM

Notes

Evolution and Ecology

Room: Plaza Room

Organizers: **Asher Cutter** and **Marie-Anne Felix**

Introduction: "Where do we go from here?" - Asher Cutter, University of Toronto

PART 1: C. elegans POLYMORPHISMS

1. Resources and methods for phenotypic mapping - Matthew Rockman, New York University
2. Resources and methods for genome-typing - Erik Andersen, Princeton University
3. Resources and methods for phenotyping: high-throughput and/or high content - William Ryu, University of Toronto
4. Integrating Variation in Wormbase - Mary Ann Tuli, Wormbase - Sanger Institute

PART 2: C. elegans LAB EVOLUTION

5. Lab evolution of N2 and LSJ2 and consequences for using N2 - Patrick McGrath, Rockefeller University
6. Resources and methods for experimental evolution - Henrique Teotonio, Gulbenkian Institute

PART 3: Caenorhabditis GENUS

7. Caenorhabditis genus genomes: Making comparative genome analysis accessible and usable - Kevin Howe, Wormbase - Sanger Institute
8. Resources and methods for non-elegans Caenorhabditis species in the lab - Joe Ross, University of Maryland

Workshops

Thursday, June 23 5:00 PM–6:30 PM

Unique Advantages of *C. elegans* for Pioneering Metabolic Studies

Room: Bradley International Ballroom

Organizers: **Amy Walker** and **Marc Van Gilst**

Metabolism comprises a complex web of chemical reactions optimized to transform the molecular content of the diet into a new composition most appropriate for building the structures or, and fueling the organism of interest. Although the diets and molecular needs of different organisms vary, the basic problem of recognizing, responding to, and altering the diet into a molecular composition best suited for the animal is a problem faced by all metazoans. Thus, understanding how the worms adapt to their nutritional environment illuminates how these metabolism affect lifespan, stress responses and fertility. In this workshop, we will discuss the advantages of using *C. elegans* to study links between metabolism and other biological processes and how both conserved and novel mechanisms in *C. elegans* can inform our understanding of metabolism in higher organisms.

Speakers:

Amy Walker, MGH/Harvard Medical School

Chris Webster, Washington State University

Marc Van Gilst, Fred Hutchison Cancer Research Center

William Mair, The Salk Institute for Biological Studies

Kaveh Ashrafi, University of California, San Francisco

Thursday, June 23 5:00 PM–6:30 PM

Imaging: acquisition, analysis and presentation of information

Room: Grand Horizon Ballroom

Organizers: **Bill Mohler** and **Zhirong Bao**

This workshop will focus on recent advances in live imaging and the integration of image data with the rest of the knowledge base for the worm. Presentations will highlight extensions of multidimensional imaging to previously out-of-reach stages of the life cycle, automation of data analysis and focused data reduction to enhance understanding, and visual presentation of multidimensional data and associated knowledge to the entire scientific community.

1. Subcellular in vivo time-lapse imaging and optical manipulation of *C. elegans* in standard multiwell plates. Christopher Rohde, Massachusetts Institute of Technology
2. In vivo calcium imaging of the pharyngeal muscles in freely moving animals. Ippei Kotera, University of Toronto
3. Lineage-based systematic single-cell analysis of embryogenesis. Zhirong Bao, Sloan-Kettering Institute
4. The GLOWorm repository & GLOWormJ: a system for distribution and analysis of multidimensional embryological images. William A. Mohler, University of Connecticut Health Center

PART 2: Open Discussion

Introduction of participants - William A. Mohler, University of Connecticut Health Center

Confirmed participants: Daniel Colon-Ramos; Matthew Crane; Denis Dupuy; Claudiu Giurumescu; Max Heiman; Xiao Liu; Rex Kerr; Shuichi Onami; Hari Shroff; Lukas von Tobel; Carolina Wahlby

Discussion

Workshops

Thursday, June 23 7:30 PM–8:30 PM

Notes

What is Life Like at a Predominantly Undergraduate (i.e. Teaching) Institution and How Can I Get a Job at One?

Room: Northwest Auditorium

Organizer: **Jennifer Miskowski**

This workshop should be of interest to graduate students and postdocs who are considering a career at a predominately undergraduate institution (PUI). The challenges facing faculty members at PUIs are substantially different from those typically encountered at a research university and the job search process is also quite different. A panel of *C. elegans* researchers who are employed at different types of PUIs will discuss issues such as teaching loads, research expectations and opportunities, how to find PUI job openings, and hiring criteria at PUIs.

Workshops

Friday, June 24 7:30 PM–8:30 PM

Notes

Achieving Tenure and Promotion: Tips on Proposals, Publications, and Portfolios.

Room: Northwest Auditorium

Organizer: **Jennifer Miskowski**

This workshop will be of primary interest to those currently employed at predominantly undergraduate institutions (PUIs) who are preparing for tenure and promotion, but also applicable to faculty members throughout their career. A panel of PUI veterans will lead a discussion focused on the balance between teaching and research, how to write successful grant proposals, and issues surrounding publications including the idea of the Least Publishable Unit (LPU), recommended journals to target, and personal experiences with various journals, their editorial boards, reviewers, etc.

Saturday, June 25 12:30 PM–2:30 PM

Educating Scientists for the 21st Century: Focus on High-Impact Learning Strategies

Room: Northwest Auditorium

Organizer: **Jennifer Miskowski**

This workshop should be of interest to educators at all levels and types of institutions who have a dedicated commitment to teaching. The presenters at this workshop will share innovative teaching materials and techniques, with an emphasis on those that are used in, or can be adapted to, smaller class sizes. The presentations will include, but are not limited to, *C. elegans*-based approaches, interdisciplinary courses/programs related to developmental biology, active learning exercises, and high-tech applications that have been used effectively in the classroom.

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Wednesday, June 22 7:00 PM–10:00 PM

Royce Hall

Plenary Session 1

Chairs: Cynthia Kenyon and Jonathan Hodgkin

1- 7:00 – Invited Speaker

Control of protein homeostasis from a distance: the expanding world of stress-kines. **Andrew Dillin**.

2- 7:30

Caenorhabditis Genetics Center. **Aric L. Daul**, Theresa Stiernagle, Julie Knott, Ann E. Rougvie.

3- 7:35

WormBook News. **Jane E. Mendel**, Todd Harris, Qinghua Wang, Paul Sternberg, Martin Chalfie.

4- 7:40

Introducing: The Next Generation of WormBase. **Todd W. Harris**, The WormBase Consortium.

5- 7:47

The Million Mutation Project - A *C. elegans* Mutation Resource. **Donald G. Moerman**, Pnina Strasbourger, Owen Thompson, Iasha Chaudhry, Mark Edgley, Brent Ewing, Lisa Fernando, Stephane Flibotte, Amber High, LaDeana Hillier, Joanne Lau, Norris Lee, Angela Miller, Greta Raymant, Jay Shendure, Jon Taylor, Emily H. Turner, Robert Waterston.

6- 7:54

Towards a mutation in every gene: A report from the front lines. **Mark Edgley**, Robert Barstead, Shohei Mitani, Don Moerman, and the Barstead, Mitani and Moerman Labs.

7- 8:01

A recombinant Mos1 transposon can carry large DNA fragments. **Christian Frøkjær-Jensen**, MW Davis, M. Sarov, J. Taylor, ZC Stevenson, D. Moerman, EM Jorgensen.

8- 8:08

LIN-42/PERIOD Controls Cyclical and Developmental Progression of *C. elegans* Molting. **Gabriela C. Monsalve**, Cheryl Van Buskirk, Paul W. Sternberg, Alison R. Frand.

9- 8:20

Developmental Regulation of miRNA Activity. **Dana M. King**, Christopher Hammell.

8:32 - Break

10- 9:00

Hormonal signal amplification mediates environmental conditions during development and controls an irreversible commitment to adulthood. **O. Schaedel**, B. Gerisch, A. Antebi, P. Sternberg.

11- 9:12

NSBP-1, a novel sterol binding protein, mediates the insulin/IGF-1 signaling pathway in response to cholesterol in *Caenorhabditis elegans*. **Mi Cheong Cheong**, Hyoung-Joo Lee, Keun Na, Hyoe-Jin Joo, Young-Ki Paik.

12- 9:24

Germline tumors and loss of intestinal integrity in aging *C. elegans*. **Matthew D. McGee**, Darren Weber, Nicholas Day, Cathy Vitelli,

Danielle Crippen, Laura A. Herndon, David H. Hall, Simon Melov.

13- 9:36

Modulators of small RNA pathways determine immunity against a natural virus of *C. elegans*. **Eric A. Miska**, Alyson Ashe, J. Piffaretti, G. Wu, I. Nuez, T. Bécicard, Y. Jiang, G. Zhao, C. J. Franz, Leonard D. Goldstein, M. Sanroman, D. Wang, M. A. Félix.

14- 9:48

C. elegans Germline Defense Against Retroelements. **Shannon M. Dennis**, Ujwal Sheth, Jessica L. Feldman, Jeff N. Molk, James R. Priess.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Thursday, June 23 9:00 AM–12:00 NOON

Ackerman Grand Ballroom

Physiology I: Aging and Stress

Chairs: Sivan Korenblit and Yamei Wang

15- 9:00

The conserved microRNA miR-80 negatively regulates *C. elegans* longevity through inhibition of the dietary restriction pathway. **Mehul Vora**, Mitalie Shah, Silvana Ostafi, Monica Driscoll.

16- 9:12

Proteomic Analysis of Age-dependent Changes in Protein Solubility Identifies Genes that Modulate Lifespan. **Pedro R. Rodrigues**, Gregg Czerwieniec, Theodore Peters, Uday S. Evani, Mark Lucanic, Silvestre Alavez, Emily A. Gaman, Sean D. Mooney, Bradford W. Gibson, Robert E. Hughes, Gordon J. Lithgow.

17- 9:24

Asymmetric Arginine Dimethylation Determines Lifespan in *C. elegans* by Regulating Forkhead Transcription Factor DAF-16. **Yuta Takahashi**, Hiroaki Daitoku, Keiko Hirota, Hiroko Tamiya, Atsuko Yokoyama, Kayo Yasuda, Naoaki Ishii, Akiyoshi Fukamizu.

18- 9:36

Reproduction and Longevity are Positively Correlated in *C. elegans*. **Christopher L. Pickett**, Kerry Kornfeld.

19- 9:48

In situ study of oxidative stress using a new optogenetic tool, KillerRed. **Donald Fu**, Ippei Kotera, Po-An Su, Hiroshi Suzuki.

20- 10:00

A heritable effect of environmental stress on embryonic mRNA profiles. **Daniel H. Schott**, Itai Yanai, Craig Hunter.

10:12 - **Break**

21- 10:36

Neurite Sprouting and Synapse Deterioration are Features of the Aging *C. elegans* Nervous System. **Marton Toth**, I. Melentijevic, L. Shah, A. Bhatia, K. Lu, A. Talwar, H. Naji, C. Ibanez-Ventoso, P. Ghose, A. Jevince, L. Herndon, G. Bhanot, C. Rongo, D. Hall, Monica Driscoll.

22- 10:48

TOR signaling and rapamycin modulate aging by regulating SKN-1- and DAF-16-driven transcription. Stacey Robida-Stubbs, Kira Glover-Cutter, Prashant Raghavan, Masaki Mizunuma, Theresa Operana, **TK Blackwell**.

23- 11:00

Death Made Visible: The Necrosis Pathway Generates A Burst Of Blue Fluorescence Marking Organismal Death In *C. elegans*. **Cassandra Coburn**, Keith Nehkre, Filip Matthijssens, Grahame Fischer, Filipe Cabreiro, Caroline Araiz, Bart Braeckman, David Gems.

24- 11:12

The germline influences *C. elegans*' longevity through Wnt signaling. **Monika Suchanek**, Cynthia Kenyon.

25- 11:24

Defining longevity-specific targets of AMPK. **William Mair**, Ianessa Morantte, Ana Rodrigues, Gerard Manning, Marc Montminy, Reuben Shaw, Andrew Dillin.

26- 11:36

Tissue specific 14-3-3 activities in *Caenorhabditis elegans* lifespan regulation. Z. Yang, S. Yu, Z. Yu, D. Zhao, **Y. Wang**.

27- 11:48

NDG-4 determines Aging and Stress Resistance. Jeanette Brejning, Lone Schoeler, Tine Moeller, Helle Jakobsen, **Anders Olsen**.

Notes

Plenary and Parallel Session Listings

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Thursday, June 23 9:00 AM–12:00 NOON

Grand Horizon Ballroom

Neurobiology I: Behavior

Chairs: Sreekanth Chalasani and Kotara Kimura

28- 9:00

Parallel evolution of domesticated *Caenorhabditis* species targets pheromone receptors. **Patrick T. McGrath**, Yifan Xu, Jennifer Garrison, Michael Ailion, Rebecca Butcher, Cornelia Bargmann.

29- 9:12

Behavioral adaptation of soil nematodes facilitates escape from predacious fungi. Sean Maguire, Christopher M. Clark, Jennifer K. Pirri, **Mark J. Alkema**.

30- 9:24

A new family of nematode signaling molecules promotes social aggregation behavior in *C. elegans*. **Jagan Srinivasan**, Stephan von Reuss, Neelanjan Bose, Parag Mahanti, Margaret Ho, Oran O'Doherty, Paul Sternberg, Arthur Edison, Frank Schroeder.

31- 9:36

Two insulin-like peptides antagonistically regulate olfactory learning in *C. elegans*. **Zhunan Chen**, Astrid Cornils, Wolfgang Maier, Joy Alcedo, Yun Zhang.

32- 9:48

The function of TGF- β signaling in olfactory learning of *C. elegans*. **Xiaodong Zhang**, Yun Zhang.

33- 10:00

Probing the potassiome: K⁺ channel function in sleep behavior. **Cheryl L. Van Buskirk**, Julie Cho, Paul W. Sternberg.

10:12 - **Break**

34- 10:36

Long term calcium imaging of AFD thermosensory neuron revealed behavioral strategy for exploratory movements during thermotaxis. **Yuki Tsukada**, Tomoyasu Shimowada, Noriyuki Ohnishi, Atsushi Kuhara, Ikue Mori.

35- 10:48

Recognition of familiar food stimulates feeding via endocrine serotonin signaling in *Caenorhabditis elegans*. **B. Song**, L. Avery.

36- 11:00

Sexual identity of a single sensory neuron pair controls *C. elegans* behavioral choice. **Renee M. Miller**, Kyung-Hwa Lee, Deborah A. Ryan, Douglas S. Portman.

37- 11:12

Integrin Signaling Modulates Touch Sensitivity In Dauer Touch Receptor Neurons. **Xiaoyin Chen**, Martin Chalfie.

38- 11:24

Two novel DEG/ENaC channel subunits expressed in glia play an essential role in *C. elegans* touch sensitivity. **Lu Han**, Ying Wang, Yun Lu, Shai Shaham, Laura Bianchi.

39- 11:36

DEG-1 and not OSM-9 is the major mechanoelectrical transduction channel in ASH. **Shana Geffeney**, Juan Cueva, Dominique Glauser, Joseph Doll, Tim Lee, Misty Montoya, Snetu Karania, Arman Garakani, Beth Pruitt, Miriam Goodman.

40- 11:48

Contribution of cyclic nucleotide gated (CNG) channel subunits to behavioral plasticity in *C. elegans*. **Damien M. O'Halloran**, Xiao-Dong Zhang¹, Chantal Brueggemann, Svetlana Altschuler-Keylin¹, Yawei Yu, Tsung-Yu Chen, Noelle D. L'Etoile.

Notes

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Thursday, June 23 9:00 AM–12:00 NOON

De Neve Auditorium

Development and Evolution I: Fate, Evolution and Timing

Chairs: Takao Inoue and Shih-Peng Chan

41- 9:00

Multiple Wnts redundantly orient polarities of epithelial stem cells in *C. elegans*. Yuko Yamamoto, Hisako Takeshita, **Hitoshi Sawa**.

42- 9:12

EGL-27/MTA1 interacts with SEM-4/SALL and other pluripotency factors to potentiate the Y-to-PDA cell reprogramming event. **A. Ahier**, K. Kagias, N. Fischer, S. Jarriault.

43- 9:24

A biased competition model for distinct tube fates in the *C. elegans* excretory (renal) system. **Ishmail Abdus-Saboor**, Vincent Mancuso, Kelly Howell, Katherine Palozola, Meera Sundaram.

44- 9:36

The F-box protein SEL-10 inhibits signaling pathways critical for vulval development in *C. elegans*. **Claire de la Cova**, Iva Greenwald.

45- 9:48

Sumoylation of *C. elegans* nuclear receptor NHR-25 promotes proper organogenesis. **Jordan D. Ward**, Nagagireesh Bojanala, Teresita Bernal, Marek Jindra, Kaveh Ashrafi, Keith R. Yamamoto, Masako Asahina.

46- 10:00

Hidden and apparent effects of a non-synonymous polymorphism in *C. elegans*. **Fabien Duveau**, Marie-Anne Félix.

10:12 - **Break**

47- 10:36

Changes in the Wnt and Netrin pathways that may give rise to new gonad morphologies. **D. Rudel**, H. Tian, B. Wyatt, R. J. Sommer.

48- 10:48

Conserved Eukaryotic Fusogens can Fuse Viral Envelopes to Cells. **Ori Avinoam**, Karen Fridman, Clari Valansi, Inbal Abutbul, Tzviya Zeev-Ben-Mordehai, Ulrike Maurer, Amir Sapir, Dganit Danino, Kay Grunewald, Judith White, Benjamin Podbilewicz.

49- 11:00

A positive feedback loop involving translational repression and protein degradation maintains totipotency of germline blastomeres. Rueyling Lin, Tugba Guven-Ozkan, Scott Robertson, **Rueyling Lin**.

50- 11:12

Antagonizing germline fate in somatic cells: opposing roles of the MES and synMuv B chromatin regulators. **Lisa N. Petrella**, Wenchao Wang, Caroline A. Spike, Andreas Rechtsteiner, Susan Strome.

51- 11:24

CDK-1 and Wnt regulate cortical release of WRM-1/ β -catenin to control cell-division orientation in early *C. elegans* embryos. S. Kim, **T. Ishidate**, R. Sharma, M. Soto, M. Shirayama, C. Mello.

52- 11:36

The microRNA *mir-235* is essential for the insulin/IGF pathway-dependent quiescence in blast cells during L1 diapause. **Hidefumi Kasuga**, Masamitsu Fukuyama, Hiroaki Kajiho, Kenji Kontani, Toshiaki Katada.

Notes

Plenary and Parallel Session Listings

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Thursday, June 23 9:00 AM–12:00 NOON
Northwest Auditorium

Cell Biology I: Cell Division and Chromosome Dynamics, Polarity

Chairs: Needhi Bhalla and Gyorgi Csankovszki

54- 9:00

LAB-1 cooperates with cohesin to ensure accurate homolog segregation during meiosis I. **Yonatan B. Tzur**, Carlos E. de Carvalho, Ivo van Bostelen, Monica P. Colaiácovo.

55- 9:12

AIR-2 guides condensin I to chromosomes and the spindle. K. Collette, J. Bembenek, N. Golenberg, **G. Csankovszki**.

56- 9:24

Kleisin Subunit Identity Determines Cohesin Loading Mechanism, Distribution, and Function during *C. elegans* Meiosis. **Aaron F. Severson**, Barbara J. Meyer.

57- 9:36

The RGA-3/4 RhoGAP and signalling by the mitotic asters restrict RhoA activity to cell equator during cytokinesis. **Esther Zanin**, Karen Oegema.

58- 9:48

Condensin I and the spindle midzone prevent furrow regression induced by chromosome mis-segregation in *C. elegans* embryos. Koen J. C. Verbrugghe, Joshua N. Bembenek, Györgyi Csankovszki, **Raymond C. Chan**.

59- 10:00

The SCF^{SEL-10} ubiquitin ligase complex is a key regulator of ZYG-1 levels. **Nina Peel**, Michael Dougherty, Kevin O'Connell.

10:12 - **Break**

60- 10:36

Genomic and Epigenetic Regulation of Double Strand Breaks During Meiosis in *C. elegans*. **C. V. Kotwaliwale**, A. Dose, A. F. Dernburg.

61- 10:48

Meiotic chromosome structural proteins influence centriole dynamics and spindle organization during spermatocyte meiosis. **Mara Schvarzstein**, Anne Villeneuve.

62- 11:00

CUL2^{LRR1} ubiquitin ligase mediates the degradation of CDK inhibitors to regulate the cell cycle in *C. elegans* germ cells and cell motility in human cells. **Natalia G. Starostina**, Edward T. Kipreos.

63- 11:12

Synaptonemal Complex mediates crossover interference during meiosis. **Diana E. Libuda**, Rayka Yokoo, Michiko Hayashi, Anne M. Villeneuve.

64- 11:24

Activation of MOM-4 by SRC-1 and Wnt: A mechanistic link between spindle rotation and signaling pathways lowering nuclear POP-1 levels. **Sung Hee Ahn**, Scott Robertson, Rueyling Lin.

65- 11:36

The mRNA splicing regulator SPK-1 is required for cell polarity in one-cell *C. elegans* embryos. **Martin Miki**, Carrie R. Cowan.

66- 11:48

AP-1 controls an apical trafficking pathway required for PAR-6 localisation and epithelial polarity. Massi Shafaq-zadah, Lysiane Brocard, **Gregoire Michaux**.

Notes

Plenary and Parallel Session Listings

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Thursday, June 23 1:30 PM–4:45 PM

Royce Hall

Plenary Session 2

Chairs: Susan Strome and Paul Sternberg

67- 1:30 – Invited Speaker

Breaking symmetry: polarization of the *C. elegans* embryo. **Geraldine Seydoux**.

68- 2:00

A kinase-independent role of Aurora A in the assembly of mitotic spindle microtubules. Mika Toya, Masahiro Terasawa, **Asako Sugimoto**.

69- 2:12

Cracking the Eggshell: Protective Barrier Assembly Following Fertilization of the *C. elegans* Embryo. **Sara K. Olson**, Garrett Greenan, Ana Carvalho, Thomas Müller-Reichert, Karen Oegema.

70- 2:24

Lysosome-Related Organelles in Intestinal Cells Function as a Zinc Storage Site in *C. elegans*. **Hyun C. Roh**, Sara Collier, James Guthrie, J. David Robertson, Kerry Kornfeld.

71- 2:36

Cell Shape and Wnt Signaling redundantly Control the Division Axis of *C. elegans* Epithelial Stem Cells. **Marjolein Wildwater**, Matilde Galli, Nicholas Sander, Geert de Vreede, Sander van den Heuvel.

72- 2:48

repo-1(or430ts): a *C. elegans* mutant with a reversed anterior-posterior body axis. **Reza Keikhaee**, Bruce Nash, John Yochem, Bruce Bowerman.

3:00 - Break

73- 3:30

The phospholipid flippase TAT-5 prevents the budding of extracellular vesicles during *C. elegans* embryogenesis. **Ann M. Wehman**, Barth D. Grant, Jeremy Nance.

74- 3:42

Replication-Coupled Nucleosome Assembly Is Required to Generate a Bilateral Asymmetry in the *C. elegans* Nervous System. **Shunji Nakano**, Bruce Stillman, Bob Horvitz.

75- 3:54

Ras effector switching from Raf to RalGEF promotes divergent fates in vulval patterning. Tanya Zand, Kimberly Monahan, Channing Der, **David Reiner**.

76- 4:06

Distinct and mutually inhibitory binding by two β -catenins, SYS-1 and WRM-1, coordinates TCF/POP-1 nuclear levels and activity. **X. Yang**, S. Huang, M. Lo, W. Xu, S. Robertson, R. Lin.

77- 4:18

Evolution of X-Chromosome Dosage Compensation and Sex Determination Revealed by Targeted Gene Disruption Across Species. **Te-Wen Lo**, Andrew Wood, Bryan Zeitler, Catherine Pickle, Andrew Lee, Caitlin Schartner, Jeffrey Miller, Lei Zhang, Edward Rebar, Philip Gregory, Fyodor Urnov, Barbara Meyer.

78- 4:30

X:A Signal Assessment to Determine Sex. **Behnom Farboud**, Margaret M. Jow, Paola Nix, John M. Gladden, Barbara J. Meyer.

Notes

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Friday, June 24 9:00 AM–12:00 NOON

Ackerman Grand Ballroom

Physiology II: Aging and Stress, Dauer Larvae and Metabolism

Chairs: Supriya Srinivasan and Anat Ben Z'vi

79- 9:00

Ascaroside mediated lifespan increase in *C. elegans* requires the chemosensory neuron ASK, the G-protein coupled receptor DAF-37 and the deacetylase SIR-2.1. Hanno Ludewig, **Yevgeniy Izrayelit**, Donha Park, Rabia Malik, Anna Zimmerman, Axel Bethke, Bennet Fox, Don Riddle, Frank Schroeder.

80- 9:12

The microRNA *mir-71* Acts in the Ectoderm to Promote Germline-Mediated Longevity by Regulating DAF-16 Activity. **Konstantinos Boulias**, Bob Horvitz.

81- 9:24

C. elegans SIRT6/7 homolog SIR-2.4 as a novel regulator of DAF-16 localization and function. **Wei-Chung Chiang**, Daniel X. Tishkoff, Bo Yang, Angela R. Wang, Mark Eckersdorff, David B. Lombard, Ao-Lin Hsu.

82- 9:36

MicroRNA Predictors of Longevity in *C. elegans*. **Zachary Pincus**, Thalyana Smith-Vikos, Frank Slack.

83- 9:48

Molecular aging driven by Wnt signaling in *C.elegans*. **Yelena V. Budovskaya**, Stuart K. Kim.

84- 10:00

Spontaneous Age-Related Neurite Branching in *C. elegans*. **Elizabeth Tank**, Cynthia Kenyon.

10:12 - Break

85- 10:36

Inhibition of mitochondrial respiration extends lifespan via reactive oxygen species that increase HIF-1 activity. **Ara B. Hwang**, Seung-Jae Lee, Eun-A Ryu, Cynthia Kenyon.

86- 10:48

Physiological IRE-1-XBP-1 and PERK/PEK-1 Signaling in *C. elegans* Intestinal Homeostasis and Immunity. **Claire E. Richardson**, Stephenie Kinkel, Dennis H. Kim.

87- 11:00

The serine/threonine kinase SGK-1 promotes longevity by activating DAF-16/FoxO. Chunfang Guo, Kathleen J. Dumas, Travis W. Williams, Kaveh Ashrafi, **Patrick J. Hu**.

88- 11:12

Gut microbiota as a therapeutic target of biguanides to extend *C. elegans* lifespan. **F. Cabreiro**, C. Au, C. Slack, P. Aston, L. Partridge, D. Gems.

89- 11:24

A heterodimeric *C. elegans* G-protein coupled receptor specific for the dauer pheromone Ascr#2/C6. **Donha Park**, Rishi Somvanshi, Inish O'Doherty, Frank Schroeder, Ujendra Kumar, Don Riddle.

90- 11:36

Steroid secrets revealed - Identification of novel endogenous ligands of the nuclear hormone receptor DAF-12 using NMR based comparative metabolomics. **Parag Mahanti**, N. Bose, A. Bethke, J. Judkins, J. Wollam, P. J. Hu, A. Antebi, Frank C. Schroeder.

91- 11:48

A defensive escape behavior reveals xenobiotic surveillance pathways in *C.elegans*. **Justine Melo**, Gary Ruvkun.

Notes

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Friday, June 24 9:00 AM–12:00 NOON

Royce Hall

Neurobiology II: Behavior, Synapses and Regeneration

Chairs: Roger Pocock and Chieh Chang

92- 9:00

Shining light on behavior: An optogenetic dissection of neural circuits in freely behaving *C. elegans*. **Andrew Leifer**, Christopher Clark, Quan Wen, Christopher Fang-Yen, Mark Alkema, Aravinthan Samuel.

93- 9:12

C. elegans selects distinct crawling and swimming gaits via dopamine and serotonin. **Andrés G. Vidal-Gadea**, Stephen Topper, Layla Young, Ashley Crisp, Leah Kressin, Erin Elbel, Thomas Maples, Abram Axelrod, Martin Brauner, Karen Erbguth, Alexander Gottschalk, Dionicio Siegel, Jonathan Pierce-Shimomura.

94- 9:24

Axonal regeneration proceeds through axonal fusion in *C. elegans* neurons. **Brent Neumann**, Ken C. Q. Nguyen, David H. Hall, Adela Ben-Yakar, Massimo A. Hilliard.

95- 9:36

Insulin signaling directly regulates age-dependent axon regeneration. **Alexandra Byrne**, Marc Hammarlund.

96- 9:48

Understanding the molecular mechanisms underlying the age-dependent nerve regenerative response in adult *C. elegans*. **T. Hubert**, Y. Jin.

97- 10:00

Sleep-dependent Changes in the *C. elegans* Neural Network. **Julie Cho**, Alon Zaslaver, Paul Sternberg.

10:12 - **Break**

98- 10:36

Cyclin-dependent kinases control the axon-dendrite polarity of presynaptic components. **Chan-Yen Ou**, Vivian Y. Poon, Andrew B. Hellman, Celine I. Maeder, Kang Shen.

99- 10:48

Direct visualization and functional modulation suggest a role for specific heparan sulfate motifs in cholinergic synaptic transmission in *C. elegans*. **Matthew Attreed**, Hannes Buelow.

100- 11:00

A novel RAB-2 effector complex regulates sorting of dense-core vesicle cargos at the Golgi. **Michael Ailion**, Mandy Hannemann, Susan Dalton, Andrea Pappas, Shigeki Watanabe, Jan Hegemann, Hsiao-Fen Han, Mingyu Gu, Kim Schuske, Patrick Hullett, Stefan Eimer, Erik Jorgensen.

101- 11:12

HIF-1 Independent Glutamate Receptor Trafficking as a Novel Neuroprotective Response to Hypoxic Insult. Eun Chan Park, **Piya Ghose**, Zhiyong Shao, Lijun Kang, Jo Anne Powell-Coffman, Shawn Xu, Christopher Rongo, (ECP and PG contributed equally to this work).

102- 11:24

Inter-axonal interaction defines synaptic tiling in *C. elegans*. **Kota Mizumoto**, Kang Shen.

103- 11:36

Optogenetics dissection of the nociceptive PVD network: RNAi of PVD-specific genes reveals TRP channels as signal amplifiers. **Steven J. Husson**, Wagner Steuer Costa, Jeffrey N. Stirman, Joseph D. Watson, W. Clay Spencer, Millet Treinin, David M. Miller III, Hang Lu, Alexander Gottschalk.

104- 11:48

Two endocytic pathways revealed by capturing channelrhodopsin induced synaptic transmission. **Shigeki Watanabe**, Qiang Liu, Wayne Davis, Gunther Hollopeter, Mingyu Gu, Erik Jorgensen.

105- 12:00

Lateral facilitation between primary mechanosensory neurons controls nose touch perception in *C. elegans*. **Marios Chatzigeorgiou**, Ithai Rabinowitch, William Schafer.

Notes

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Friday, June 24 9:00 AM–12:00 NOON

Grand Horizon Ballroom

Gene Regulation and Genomics I: Gene Expression and Genomics

Chairs: Antony Jose and Itai Yanai

106- 9:00

Regulation of myosin synthesis, cytosolic protein degradation, and muscular dystrophies by the kinome, phosphatome, and “muscle genes” in *C. elegans*. Susann Lehmann, Freya Shephard, Tim Etheridge, Beth Oczypok, Ademola A. Adenle, Lew Jacobson, **Nate Szewczyk**.

107- 9:12

A High-Resolution *C. elegans* Essential Gene Network Based on Phenotypic Profiling of a Complex Tissue. **Rebecca A. Green**, Huey-Ling Kao, Anjon Audhya, Arur Swathi, Jonathan Mayers, Heidi Fridolfsson, Monty Schulman, Siegfried Schloissnig, Sherry Niessen, Kimberley Laband, Shaohe Wang, Daniel Starr, Anthony Hyman, Tim Schedl, Arshad Desai, Fabio Piano, Kristin Gunsalus, Karen Oegema.

108- 9:24

Two-step evolution of a hybrid operon with both ubiquitous and tissue-specific promoters. Alisson Marques Gontijo, Fabiana Heredia, Sylvie Aubert, Diana M. Vallejo, Veronica Miguela, Maria Dominguez, **Bernard Lakowski**.

109- 9:36

A LIN-35/pRb network controlling pharyngeal development through PHA-1. **David S. Fay**, Kumaran Mani.

110- 9:48

Core promoter T-blocks correlate with gene expression levels in *C. elegans*. **Uladzislau Hryshkevich**, Tamar Hashimshony, Itai Yanai.

111- 10:00

A quantitative RNA code for mRNA target selection by the germ line fate determinant GLD-1. **Jane E. Wright**, Dimos Gaidatzis, Mathias Senften, Brian M. Farley, Eric Westhof, Sean P. Ryder, Rafal Ciosk.

10:12 - Break

112- 10:36

The TransgeneOme of *C. elegans*: a platform for *in vivo* analysis of protein function. **Mihail S. Sarov**, John Murray, Kristin Schanze, Andrei Pozniakovski, Karolin Angerman, Susanne Ernst, Andrea Zinke, Tina Teichgraber, Judith Janette, Siegfried Schloissnig, Susanne Hasse, Matthew Tinney, Elizabeth Vinis, Michaela Rupprecht, Stuart Kim, Valerie Reinke, Francis Stewart, Michael Snyder, Robert Waterston, Anthony Hyman.

113- 10:48

Dissecting *C. elegans* insulins using a systems approach. **Ashlyn Ritter**, Heidi Tissenbaum, Marian Walhout.

114- 11:00

Distinct functional constraints partition sequence conservation in a *cis*-regulatory element. **Kacy Gordon**, Antoine Barrière, Ilya Ruvinsky.

115- 11:12

Chromosome-biased binding and gene regulation by the *C. elegans* DRM complex. Tomoko M. Tabuchi, Bart Deplancke, Naoki Osato, Lihua J. Zhu, M. Inmaculada Barrasa, Melisa M. Harrison, H. Robert Horvitz, Albertha J. M. Walhout, **Kirsten A. Hagstrom**.

116- 11:24

Transcriptome and proteome profiling during oocyte-to-embryo transition in *Caenorhabditis elegans* suggests paternal contribution to early development. **Marlon Stoeckius**, Dominic Grün, Marieluise Kirchner, Nadine Thierfelder, Wei Chen, Matthias Selbach, Fabio Piano, Nikolaus Rajewsky.

117- 11:36

A Core *C. elegans* Transcription Factor Regulatory Network. **John S. Reece-Hoyes**, Amanda Kent, Shaleen Shrestha, Alos Diallo, Jiali Zhuang, Amelie Dricot, Zhiping Weng, David Hill, Chad Myers, Albertha J. M. Walhout.

118- 11:48

Towards molecular understanding of gene localization. **Peter Meister**, Benjamin Towbin, Sabine Rohner, Susan Gasser.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Friday, June 24 9:00 AM–12:00 NOON

Northwest Auditorium

Development and Evolution II: Evolution and Germline/Sex Determination

Chairs: Swathi Arur and Matthew Rockman

119- 9:00

Evidence that cAMP signaling in the somatic gonad transduces the MSP signal for oocyte meiotic maturation via translational regulation by OMA ribonucleoprotein particles. **Seongseop Kim**, Caroline Spike, Todd Starich, J. Amaranath Govindan, Saravanapriah Nadarajan, David Greenstein.

120- 9:12

The sperm activation protease TRY-5 is transferred to hermaphrodites during mating. **Joseph R. Smith**, Gillian Stanfield.

121- 9:24

NRDE-1/MRT-4 defects result in a heritable toxic stress that can remodel germ cell development. **Jacinth Mitchell**, Ashley Hedges, Alicia Simmons, Malik Godwin, Yan Liu, Aisa Nakashima, Kirk Burkhart, Scott Kennedy, Shawn Ahmed.

122- 9:36

Sensory control of germline differentiation via TGF β . **Diana Dalfó**, E. Jane Albert Hubbard.

123- 9:48

Noncanonical control of germline apoptosis by the insulin/IGF-1 signaling pathway. Andrew J. Perrin, Bin Yu, Kelvin Yen, Shu Ito, Heidi Tissenbaum, **W. Brent Derry**.

124- 10:00

P granules extend the nuclear pore complex environment in the *C. elegans* germ line. **Dustin Updike**, Susan Strome.

10:12 - **Break**

125- 10:36

Complementary mechanisms to specify hermaphrodite development during evolution. **Yiqing Guo**, Ronald Ellis.

126- 10:48

Sexual plasticity and behavior in a sexually polymorphic species. **J. Chaudhuri**, V. Kache, A. Pires da Silva.

127- 11:00

Update on *Caenorhabditis* species discovery, biogeography, phylogeny and evolution. **Karin C. Kiontke**, Marie-Anne Félix, Michael Ailion, Christian Braendle, Jean-Baptiste Pénigault, Matthew V. Rockman, David H. A. Fitch.

128- 11:12

Molecular phylogeny and divergence time estimates for beetle-associated *Pristionchus* nematodes. **Ralf J. Sommer**.

129- 11:24

Natural variation in a glutamate-gated chloride channel subunit confers resistance to avermectins. **Rajarshi Ghosh**, Justin Gerke, Erik Andersen, Leonid Kruglyak.

130- 11:36

The genetic basis of natural variation in food preference behavior in *Caenorhabditis elegans*. **Elizabeth E. Glater**, Cornelia I. Bargmann.

131- 11:48

What eQTLs won't tell you about natural variation in gene expression: *cis* and *trans* acting variants, dominance and epistasis. **Daniel A. Pollard**, Matthew V. Rockman.

132- 12:00

Host-parasite Coevolution selects against Males in *Caenorhabditis elegans*. **Leila EL Masri**, Rebecca Schulte, Nadine Timmermeyer, Stefanie Thanisch, Nico K. Michiels, Hinrich Schulenburg.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Friday, June 24 1:30 PM–4:30 PM

Royce Hall

Plenary Session 3

Chairs: Ikue Mori and Leon Avery

133- 1:30 – Invited Speaker

Sensing Salt: Plasticity in Sensory System and Behavioral Responses. **Yuichi Iino**.

134- 2:00

let-70, an E2 ubiquitin-conjugating enzyme, promotes the non-apoptotic death of the linker cell. **Jennifer A. Zuckerman**, Shai Shaham.

135- 2:12

Cell Extrusion Is a Caspase-Independent Mechanism for Programmed Cell Elimination in *C. elegans*. **Dan Denning**, Victoria Hatch, Bob Horvitz.

136- 2:24

CCPP-1 Is A Putative Tubulin Deglutamylase That Regulates The Function And Stability Of Neuronal Sensory Cilia. **Robert O'Hagan**, Brian P. Piasecki, Malan Silva, Prasad Phirke, Ken C. Q. Nguyen, David H. Hall, Peter Swoboda, Maureen M. Barr.

137- 2:36

Novel axon regeneration pathways identified by systematic genetic screening in *C. elegans*. **Lizhen Chen**, Zhiping Wang, Anindya Ghosh-Roy, Thomas Hubert, Dong Yan, Sean O'Rourke, Bruce Bowerman, Zilu Wu, Yishi Jin, Andrew Chisholm.

138- 2:48

The P38/JNK MAP kinase pathway regulates forgetting in *Caenorhabditis elegans*. **A. Inoue**, T. Ishihara.

3:00 - Break

139- 3:30

Behavioral quiescence is regulated by the FRPamide neuropeptide encoding genes *nlp-22* and *-23*. **M. Nelson**, C. Smith, J. George-Raizen, N. Trojanowski, D. Raizen.

140- 3:42

Internal state and sex regulate an ambivalent circuit for pheromone responses. **Heeun Jang**, Kyuhyung Kim, Rebecca Butcher, Piali Sengupta, Cori Bargmann.

141- 3:54

Axonal transport of a new DAF-2 isoform governs associative learning. **Hayao Ohno**, Masahiro Tomioka, Shinya Kato, Yasuki Naito, Hirofumi Kunitomo, Yuichi Iino.

142- 4:06

Multiplex sensorimotor encoding in RIA interneurons. **Michael Hendricks**, Heon-Ick Ha, Nicolas Maffey, Yun Zhang.

143- 4:18

Functional dynamics in the *C. elegans* sensory system. **Alon Zaslaver**, Lisa Yee, Paul Sternberg.

Friday, June 24 5:00 PM–6:00 PM

Royce Hall

Plenary Session 4 – Keynote Speaker

Chair: David Hall

144- 5:00

Mechanisms that regulate UNC-6/netrin mediated axon guidance in *C. elegans*. **Joseph Culotti**, Samuel Lunenfeld Research Institute, Toronto, Canada.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Saturday, June 25 9:00 AM–12:00 NOON

De Neve Auditorium

Physiology III: Metabolism and Pathogenesis

Chairs: Alejandro Aballay and Emily Troemel

145- 9:00

Control of one-carbon cycle genes by SBP-1 links SAME production, PC biosynthesis and lipogenesis. **Amy K. Walker**, René Jacobs, Jennifer L. Watts, Veerle Rottiers, Malene Hansen, Anne Hart, Anders Näär.

146- 9:12

Adult Reproductive Diapause (ARD) Protects Both Germline Stem Cells and Somatic Cells in *C.elegans*. **Giana Angelo**, Alex Lin, Wayne Van Voorhies, Marc Van Gilst.

147- 9:24

Questioning Adult Reproductive Diapause. **Hannah Seidel**, Judith Kimble.

148- 9:36

Calcium signaling is required for epidermal wound repair in *C. elegans*. **Suhong Xu**, Tiffany I. Hsiao, Andrew D. Chisholm.

149- 9:48

Immuno-stimulatory small molecules rescue *Caenorhabditis elegans* from infection with antibiotic-resistant Gram-positive and Gram-negative bacteria. **Read Pukkila-Worley**, Rhonda Feinbaum, Jonah Larkins-Ford, Natalia V. Kirienko, Kevin Chen, Annie L. Conery, Eleftherios Mylonakis, Frederick M. Ausubel.

150- 10:00

Reciprocal genetics of *C. elegans* - *Bacillus* interactions reveal insight into virulence and resistance mechanisms. **Igor Iatsenko**, Robbie Rae, Ralf J. Sommer.

10:12 - Break

151- 10:36

Neuronal control of stress response and innate immunity in *C. elegans*. **Varsha Singh**, Jingru Sun, Alejandro Aballay.

152- 10:48

Resistance is futile: two *Leucobacter* strains have complementary action as virulent surface pathogens of *Caenorhabditis*. **Jonathan Hodgkin**, Marie-Anne Félix, Maria Gravato-Nobre, Delia O'Rourke, Frederick Partridge, Dave Stroud.

153- 11:00

An HDA-4-MEF-2 complex couples DKF-2A (protein kinase D) to regulation of innate immunity. **Ya Fu**, Charles Rubin.

154- 11:12

HLH-30 is a novel transcription factor important for the *C. elegans* host response to *S. aureus*. N. Lhuegbu, **O. Visvikis**, L. G. Luhachack, G. D. Stormo, J. E. Irazoqui.

155- 11:24

A novel RHO-1 signaling pathway is required during the *C. elegans* immune response. **Alexandra Anderson**, Rachel McMullan.

156- 11:36

Pathogenesis of microsporidian infection in *C. elegans*. **Malina A. Bakowski**, Emily R. Troemel.

157- 11:48

The *C. elegans* Early Response to *P. aeruginosa* Infection: Defining a Novel Pathway. **T. L. Dunbar**, Z. Yan, E. R. Troemel.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Saturday, June 25 9:00 AM–12:00 NOON

Grand Horizon Ballroom

Neurobiology III: Neuronal Development and Death

Chairs: Chiou-Fen Chuang and Max Heiman

158- 9:00

C. elegans orthologs of LKB1, STRAD and MO25 regulate asymmetric cell division of the Q.p lineage. **Shih-Chieh Chien**, Gian Garriga.

159- 9:24

A combinatorial code of transcription factors defines the terminal differentiation of dopaminergic neurons. **Maria Doitsidou**, Nuria Flames, Terry Felton, Oliver Hobert.

160- 9:12

Coordinated regulation of cholinergic motor neuron traits through a *C.elegans* terminal selector. **Paschalis Kratsios**, Oliver Hobert.

161- 9:36

Insulin/IGF-1 signaling and endogenous RNAi affect HSN migration and axon guidance in *C. elegans*. **Lisa Kennedy**, Alla Grishok.

162- 9:48

Genetic and Molecular Characterization of VAB-1 Eph Receptor Signaling in Axon Guidance. **Ahmed M. Mohamed**, Jeffery Boudreau, Jun Liu, Ian D. Chin-Sang.

163- 10:00

An Axon's Journey To Find Its Path: The Rac GEF TIAM-1 Controls Axon Pathfinding Downstream of CDC-42 in the UNC-6/Netrin Attractive Pathway. **Rafael S. Demarco**, Erik A. Lundquist.

10:12 - **Break**

164- 10:36

Sensing the environment: novel molecular pathway for the formation of sensory cilia. Chunmei Li, Victor L. Jensen, Katarzyna Kida, Corey L. Williams, Bradley K. Yoder, Oliver E. Blacque, **Michel R. Leroux**.

165- 10:48

A novel regulatory circuit for PtdIns(3)P production on phagosomal surfaces during the degradation of apoptotic cells. N. Lu, **Q. Shen**, TR. Mahoney, Y. Wang, Z. Zhou.

166- 11:00

A screen for neuroprotective genes uncovers a membrane protein human haplotypes of which are associated with an increased risk of Parkinson's Disease. **N. Masoudi**, P. Ibanez, A. Gartner.

167- 11:12

The Neurodegenerative Disease Protein Progranulin Regulates Programmed Cell Death Kinetics and Stress Resistance. **Aimee Kao**, A. Nakamura, M. Judy, R. Eisenhut, L. Herl Martens, A. Huang, A. de Luis, J. Cabello, R. Farese, Cynthia Kenyon.

168- 11:24

Entry to dauer state prevents necrotic neuronal degeneration. **Andrea Calixto**, Felipe A. Court.

169- 11:36

The kinesin-3 family member KLP-4 regulates the abundance of GLR-1 glutamate receptors in the ventral nerve cord of *C. elegans*. **Michael I. Monteiro**, Shikha Ahlawat, Jennifer R. Kowalski, Emily Malkin, Sandhya P. Koushika, Peter Juo.

170- 11:48

Soulless nematodes: KIN-29 mediates the essential function of the CAN neurons. **Catarina Morck**, Gian Garriga.

171- 12:00

Controlling Gene expression with the Q Repressible Binary Expression System In *C.elegans*. **Xing Wei**, Christopher J. Potter, Liqun Luo, Kang Shen.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Saturday, June 25 9:00 AM–12:00 NOON

Northwest Auditorium

Cell Biology II: Cell Polarity and Morphogenesis

Chairs: Martin Srayko and Vincent Galy

172- 9:00

A selective plane illumination microscope for high-speed, long-term *C. elegans* embryogenesis studies. Yicong Wu, Alireza Ghitani, Ryan Christensen, Anthony Santella, Gary Rondeau, Zhirong Bao, Daniel Colón-Ramos, **Hari Shroff**.

173- 9:12

Three-dimensional molecular architecture of a cell using photo-activated localization microscopy and electron microscopy. **Shigeki Watanabe**, Gunther Hollopeter, Robert Hobson, Jackson Richards, Pin-An Chen, Christian Frøkjær-Jensen, Erik Jorgensen.

174- 9:24

Arp2/3 promotes nuclear migration and cell polarity in the *C. elegans* zygote. Huajiang Xiong, William A. Mohler, **Martha C. Soto**.

175- 9:36

Actin binding proteins affect the range of polarizing cortical flows in *C. elegans* zygotes. **Sundar Naganathan**, Justin Bois, Guillaume Salbreux, Stephan Grill.

176- 9:48

The Morphogenetic Mechanisms Mediating Self-Organization and Plasticity during *C. elegans* Gastrulation. **Christian Pohl**, Anthony Santella, Julia M. Moore, Zhirong Bao.

177- 10:00

Filamin is required for the maintenance of F-actin and calcium signaling in the spermatheca. **Ismar Kovacevic**, Erin Cram.

10:12 - Break

178- 10:36

ERM-1 is a negative regulator of LET-23 EGFR signaling. **Juan M. Escobar Restrepo**, Peter Gutierrez, Alessandra Bühler, David Kradofer, Erika Fröhli, Attila Stetak, Alex Hajnal.

179- 10:48

Functional transcriptomics of the migrating linker cell in *C. elegans*. **Mihoko Kato**, Erich Schwarz, Paul Sternberg.

180- 11:00

NHR-67, a key transcription factor that maintains *C. elegans* anchor cell identity and the invasive phenotype. **David Q. Matus**, Adam J. Schindler, Qiuyi Chi, David R. Sherwood.

181- 11:12

The long cellular projections of *C. elegans* pharyngeal gland cells form via retrograde extension under the control of CAM-1/ROR and EGL-15/FGFR signaling. **Jay Kormish**, Wahyu Raharjo, Patricia Rohs, Shinhye Kim, Jeb Gaudet.

182- 11:24

K40 α -Tubulin Acetylation Defines Microtubule Quaternary Structure *in vivo*. **Juan Cueva**, Miriam Goodman.

183- 11:36

ERM-1/ezrin-radixin-moesin interacts with AQP-8/Aquaporin in de novo intracellular lumen and single-cell tube extension. **Liakot A. Khan**, Hongjie Zhang, Nessy Abraham, John T. Fleming, David H. Hall, Matthew J. Buechner, Verena Gobel.

184- 11:48

Genetic architecture of male tail tip morphogenesis. Matthew D. Nelson, Karin C. Kiontke, R. Antonio Herrera, **David H. A. Fitch**.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Saturday, June 25 9:00 AM–12:00 NOON

Ackerman Grand Ballroom

Gene Regulation and Genomics II: Genomics, RNA Interference and small RNAs

Chairs: Chris Hammell and Allison Abbott

185- 9:00

Cell polarity genetic network revealed by suppressor RNAi screens. **Bruno Fievet**, Josana Rodriguez, Julie Ahringer.

186- 9:12

Identification and validation of *C. elegans* permeability mutants as a tool for drug screening and chemical genetics. **Frederick A. Partridge**, Steven D. Buckingham, Michael L. Youdell, Delia O'Rourke, Dave Stroud, Creg Darby, David B. Sattelle, Jonathan Hodgkin.

187- 9:24

The WormToolbox: automated quantification of image based *C. elegans* phenotypes. **Carolina Wählby**, Lee Kamensky, Zihan Hans Liu, Tammy Riklin-Raviv, Annie L. Conery, Eyleen J. O'Rourke, Katherine L. Madden, Orane Visviks, Vebjorn Ljosa, Javier E. Irazoqui, Polina Golland, Gary Ruvkun, Frederick M. Ausubel, Anne E. Carpenter.

188- 9:36

Sequencing of five *Steinernema* genomes and transcriptomes illuminates parasitism, mutualism, and changes in expression timing in nematodes. **Adler R. Dillman**, Ali Mortazavi, Xiaojun Lu, Heidi Goodrich-Blair, Paul W. Sternberg.

189- 9:48

The genomes of gonochoristic versus hermaphroditic *Caenorhabditis* species. **Erich M. Schwarz** for the *Caenorhabditis* Genome Analysis Consortium.

190- 10:00

Recent chromosome-scale selective sweeps reshaped *C. elegans* genomic diversity. **Erik C. Andersen**, Justin P. Gerke, Joshua A. Shapiro, Jonathan R. Crissman, Raj Ghosh, Joshua S. Bloom, Marie-Anne Félix, Leonid Kruglyak.

10:12 - **Break**

191- 10:36

C. elegans Dosage Compensation Regulates Histone H4 Chromatin State and RNA Pol II Stalling on X. **Michael B. Wells**, Martha J. Snyder, Gyorgyi Csankovszki.

192- 10:48

A role for H4K20me1 in X chromosome dosage compensation. Julie Ahringer, Abby Dernburg, Yan Dong, Andrea Dose, Thea Egelhofer, **Sevinc Ercan**, Chitra Kotwaliwale, Jackie Lang, Jason Lieb, Shirley Liu, Tao Liu, Andreas Rechtsteiner, Susan Strome, Anne Vielle.

193- 11:00

Characterization of novel alleles of the *C. elegans* microRNA specific Argonaute ALG-1. **Anna Y. Zinovyeva**, Christopher C. Hammell, Victor Ambros.

194- 11:12

The *C. elegans* HEN1 ortholog, encoded by C02F5.6, methylates and stabilizes select subclasses of germline small RNAs. **A. C. Billi**, T. Han, S. Mitani, J. K. Kim.

195- 11:24

A memory of developmental experience regulates small RNA populations. **Sarah E. Hall**, Gung-wei Chirn, Nelson C. Lau, Piali Sengupta.

196- 11:36

C. elegans PRG-1 and piRNAs silence target transcripts through a secondary 22G-RNA pathway. **Alexandra Sapetschnig**, Marloes Bagijn, Leonard Goldstein, Eva-Maria Weick, Nicolas Lehrbach, Eric Miska.

197- 11:48

A novel role for Argonaute in the auto-regulation of let-7 miRNA biogenesis. **Dimitrios Zisoulis**, Zoya Kai, Roger Chang, Amy Pasquinelli.

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Saturday, June 25 4:45 PM–6:30 PM
Royce Hall

Plenary Session 5: Workshop

Chairs: Oliver Hobert and Meera Sundaram

4:45 pm WormBase Workshop - Facing New Challenges

WormBase is entering a new decade and facing new challenges of integrating ever increasingly complex and numerous genomic data. We strive to continue to widely capture the fruits of Nematode research, transforming and making information more accessible. This workshop will highlight hands-on tours of use cases, exploring the new WormBase Web design and accessing datasets of large scale.

Speakers:

Next generation WormBase Web GUI, **Todd Harris**
SPELL: a query tool for large-scale, quantitative gene expression data,
Wen Chen
WormMart: broad integration of WormBase data, **Ruihua Fang**

5:10 pm Worm modENCODE workshop

The modENCODE project is an NHGRI-funded consortium dedicated to the comprehensive identification of functional elements encoded in the worm and fly genomes. The *C. elegans* modENCODE project recently completed its fourth year. During this time, five multi-lab groups have generated and made public over 230 genome-wide datasets, including binding site profiles for many transcription factors and chromatin regulatory proteins, as well as histone modification and histone variant profiles. Additionally, the transcriptomes of many different developmental stages and conditions have been collected and analyzed, including those focusing on small RNAs and 3' UTRs. These data have resulted in significant improvements to the *C. elegans* genome annotation, including the discovery of many new genes, as well as providing global insights into genome organization and the mechanisms regulating gene expression. This work has recently been published in a consortium paper (Gerstein et al., 2010 Science 330: 1775), in conjunction with a series of companion papers analyzing individual datasets in more depth. The goal of this workshop is to provide to the *C. elegans* community an overview of these datasets and the resulting global observations, and demonstrate some of the available tools to access and analyze the data in Wormbase and the modENCODE websites (www.modencode.org and intermine.modencode.org).

Speaker:

Valerie Reinke on behalf of the *C. elegans* modENCODE consortium

5:35 pm Whole Genome Sequencing For Mutant Identification

In last few years Whole genome sequencing (WGS) has transformed the foundation of genetic analysis: the discovery of phenotype-causing lesions in the genome. In this workshop, we will discuss how WGS can be used to identify such lesions in *C. elegans*. We will provide a review of this revolutionary technology, with emphasis in the most recent advances. We will present a complete from mutant-to-mutation methodological guide, that includes sample preparation, experimental design concerns, tools for data analysis, methodologies for simultaneous mapping and mutant identification, RAD mapping and chromosomal region pull-downs. Finally, we will discuss strategic choices when dealing with entire mutant collections or complicated cases, such as multigenic trait mutants.

Speakers:

Maria Doitsidou, Columbia University Medical Center
Sophie Jarriault, IGBMC
Sean O'Rourke, University of Oregon
Kate Weber, Medical Research Council

6:00 pm Engineering the Genome

We will review techniques to engineer genomic loci in nematodes.

One approach uses strains carrying the transposon *MosI*, which causes a DNA double-strand break when excised from the genome by the *Mos* transposase. A transgene containing sequences homologous to the broken locus can then be used as a repair template to create desired changes in the genome, including knock-ins (*MosTIC*, *MosI* excision-induced transgene-instructed gene conversion), large deletions (*MosDEL*), and single copy integrants (*MosSCI*). Resources to obtain *MosI*-containing strains in loci of interest will be reviewed.

A second approach achieves heritable, targeted disruption of endogenous genes and *cis*-acting regulatory elements in diverged nematode species using nucleases with engineered target specificity. These site-specific nucleases contain fusions between the DNA cleavage domain of FokI and a custom-designed DNA binding domain: C₂H₂ zinc-finger motifs for zinc finger nucleases (ZFNs) and truncated transcription activator-like effector domains for efficient TALE nucleases (TALENs). ZFNs and TALENs induce a double-strand break at a desired locus that can be repaired by error-prone non-homologous end-joining to yield small insertions and deletions (InDels) at the break site. Efficient procedures were developed in *Caenorhabditis elegans* to permit recovery of mutant lines without selection or reliance on mutant phenotype and were applied to *Caenorhabditis briggsae* with equal efficacy. An individual treated animal can yield numerous mutant offspring, all with independent mutations.

Speakers:

Jean-Louis Bessereau, Institute of Biology of the Ecole Normale Supérieure
Te-Wen Lo, University of California, Berkeley

Notes

Plenary and Parallel Session Listings

Program number is in **bold** above the title. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Sunday, June 26 9:00 AM–12:00 NOON

Royce Hall

Notes

Plenary Session 6

Chairs: Barbara Meyer and Victor Ambros

202- 9:00 – Invited Speaker

Early *C. elegans* development: a systems view. **Fabio Piano**.

203- 9:30

Condensin II is required for RNAi-mediated transcriptional gene silencing. James F. Carey, Weifeng Gu, Craig C. Mello, **Kirsten A. Hagstrom**.

204- 9:42

Small RNAs and chromatin modification are required to promote long-lasting changes in odor-induced neuronal plasticity. **Bi-Tzen Juang**, Chen Gu, Noelle L'Etoile.

205- 9:54

Induction, maintenance and transvection of heritable germline gene silencing in *C. elegans*. **Heng-Chi Lee**, Masaki Shirayama, Craig Mello.

206- 10:06

A novel chromatin associated protein is required for nuclear RNAi and germ cell immortality. **Kirk B. Burkhardt**, Shouhong Guang, Bethany Buckley, Jacinth Mitchell, Shawn Ahmed, Scott Kennedy.

207- 10:18

The Ago-class Argonautes ALG-3 and ALG-4 and 26G-RNAs regulate spermatogenic gene expression to promote thermotolerant male fertility in *C. elegans*. **Colin Conine**, James Moresco, John Yates III, Craig Mello.

10:30 - **Break**

208- 11:00

Multi-tiered transcriptional regulation of the miRNA lsy-6 ensures left-right asymmetry in the ASE neurons. **Luisa Cochella**, Oliver Hobert.

209- 11:12

Two classes of silencing RNAs move between *C. elegans* tissues. **Antony M. Jose**, Giancarlo Garcia, Craig P. Hunter.

210- 11:24

Targeting the dosage compensation complex to X and mechanism of transcriptional regulation by dosage compensation. **William S. Kruesi**, Barbara J. Meyer.

211- 11:36

Roles of the Nuclear Pore and miRNA specific ALG-2 in *C. elegans* Dosage Compensation. **Emily Crane**, Satoru Uzawa, David Mets, Barbara Meyer.

212- 11:48

Dampening of expression oscillations by co-regulation of a microRNA and its target. **Dong hyun Kim**, Alexander van Oudenaarden.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

Physiology: Aging and stress

213A

The *Caenorhabditis elegans* WRN-1 RecQ helicase participates in both DNA damage signaling and DNA Repair. **Byungchan Ahn**, M. Hyun, S. Park, E. Kim, H. Park.

214B

Amyloid-binding compounds extend lifespan in *C. elegans*. **Silvestre Alavez**, Maithili C. Vantipalli, David J. S. Zucker, Ida M. Klang, Gordon J. Lithgow.

215C

The role of the sumoylation pathway in the regulation of protein synthesis during ageing. **Artemisia Andreou**, Nektarios Tavernarakis.

216A

5' Fluorouridine (FUDR) is protective against stress and aggregation-related disease phenotypes. **Suzanne Angeli**, David Zucker, Ida Klang, Pedro Rodrigues, Karla Mark, Gordon Lithgow, Julie Andersen.

217B

Why do elevated levels of the SOD-1 cytosolic superoxide dismutase increase *C. elegans* lifespan? F. Cabreiro, R. Doonan, D. Ackerman, **C. Araiz**, D. Gems.

218C

A Novel Regulator Linking Insulin/IGF-1 Signaling to Proteasome Activity. O. Matilainen, **L. Arpalahti**, C. I. Holmberg.

219A

Quorum sensing in *Caenorhabditis* starvation. **Alex Artyukhin**, Leon Avery.

220B

Uncovering the mechanisms for the antioxidant-like properties of divalent manganese in *Caenorhabditis elegans*. **Cynthia Bach**, Chandra Srinivasan.

221C

Defining healthspan in *Caenorhabditis elegans*. **Ankita Bansal**, Kelvin Yen, Heidi A. Tissenbaum.

222A

The impact of longevity controlling genes and stress-inducing environmental factors in the functionality of the ASH chemosensory neuron in aging worms. **Daphne Bazopoulou**, Trushal V. Chokshi, Nikos Chronis.

223B

Functional studies of Homedomain-Interacting Protein Kinase using *C. elegans* as a model. **S. Berber**, E. Llamasas, H. R. Nicholas.

224C

Regulation of the Xenobiotic Stress Response - Combinatorial Action of Nuclear Receptors? **Leah Blackwell**, Amanda Marra, Tim Lindblom.

225A

Screening of EPA's ToxCast libraries using a *C. elegans* growth assay. **Windy A. Boyd**, Majro V. Smith, Julie R. Rice, Jonathan H. Freedman.

226B

The herbal tonic icariin and its metabolites extend *C. elegans* healthspan via the insulin/IGF-1 pathway. **Wai Jiao Cai**, Pankaj Kapahi, Xin Min Zhang, Zi Yin Shen.

227C

Young *Caenorhabditis elegans* Battling Stress: the Role of Ethanol and Enhanced Fat Storage in L1 Lifespan Extension. **Paola Castro**, Shilpi Khare, Steven Clarke.

228A

The role of the homeodomain protein CEH-23 in longevity of mitochondrial ETC mutants in *Caenorhabditis elegans*. **H. W. Chang**, S. S. Lee.

229B

The Checkpoint Protein PCH-2 Regulates Oocyte Quality in *C. elegans*. **Chen-Shan Chen**, Ronald Ellis.

230C

Deletion of the ribosomal S6 kinase in *daf-2* mutants synergistically extends *C. elegans* lifespan. **Di Chen**, Ben Goldstein, Alan Hubbard, Simon Melov, Pankaj Kapahi.

231A

Insulin-like Signaling in Nutritional Control of L1 Development in *C. elegans*. **Yutao Chen**, Nicole Kurhanewicz, Ryan Baugh.

232B

A nucleolar protein regulates xenobiotic detoxification genes via *skn-1*. **Keith P. Choe**, Hyacinth Empinado, Andrew Deonaraine, Chi Leung.

233C

Characterization of TMEM16 Ca²⁺-activated Cl⁻ channels in *C. elegans*. Tashrique Alam, Katherine Hill-Harfe, Chi Leung, Ying Wang, Brian Harfe, **Keith Choe**.

234A

Toxicity of silver nanoparticles via *pmk-1* dependant GST and HIF-1 activation in *Caenorhabditis elegans*. **Jinhee Choi**, DongYoung Lim, Jiyeon Roh, Hyunjeong Eom.

235B

Functional toxicogenomic analysis of multi-wall carbon nanotube in *Caenorhabditis elegans*. **Jinhee Choi**, Ji-Yeon Roh, Maribel Bruno, Yue Ge.

236C

Role of endocytosis and ER proteostasis in *C. elegans* longevity. **Ritika Das**, Sneha Rath, Nam Lee, Lindsay Stolzenburg, Andrew V. Samuelson.

237A

Protein aggregation as an inherent part of aging. **D. David**, N. Ollikainen, J. Trinidad, M. Cary, A. Burlingame, C. Kenyon.

238B

A model to study drug-induced mitochondrial dysfunction. **Richard de Boer**, Stanley Brul, Hans van der Spek.

239C

Targeting DNA Repair to Enhance Radiosensitivity in Notch-driven Tumor Stem Cells. **X. Deng**, D. Rothenstein, D. Michaelson, SN. Powell, Z. Fuks, EJ Hubbard, RN. Kolesnick.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

240A

Distinct DAF-12 activities influence *C. elegans* lifespan. **Kathleen Dumas**, Chunfang Guo, Hung-Jen Shih, Patrick Hu.

241B

Cyclophilin D Modulation of Longevity and Mitochondrial Physiology. **Julie C. Etzler**, Deborah Holstein, James D. Lechleiter.

242C

Steroid Signaling Mediates Longevity Responses to Dietary Restriction in *C. elegans*. **Mindy Farris**, Victor Pineda, Dhaval Patel, Weiqing Li.

243A

Identification of a Novel Role for Tyrosine Aminotransferase in Insulin Signaling. **Annabel Ferguson**, Yongsoo Kim, Kaitlyn Kormanik, Patrick Hu, Alfred Fisher.

244B

Engineering longevity in *C. elegans*. **Ari E. Friedland**.

245C

Characterization of the neuromedin U receptor (NMUR) family and its role in the development and lifespan of *C. elegans*. **Roxani Gatsi**, Bakhtiyor Adilov, Wolfgang Maier, Martin Regenass, Joy Alcedo.

246A

Investigating the Dynamic Role of Autophagy in *C. elegans* Subjected to Dietary Restriction. **S. Gelino**, M. Hansen.

247B

Investigating the Effect of Anoxia Exposure on Lifespan and the Role of Age in Anoxia Tolerance in *C. elegans*. **Jo M. Goy**, Mary L. Ladage, Pamela A. Padilla.

248C

A Genetic Regulatory Network that Controls the Heat Shock Response in *C. elegans*. **Eric Guisbert**, Daniel Czyz, Klaus Richter, Patrick McMullen, Richard Morimoto.

249A

MTL-1, MTL-2 and CDR-1 are not essential in *C. elegans* resistance to cadmium. **Kathryn L. Haas**, Julie Hall, Jonathan Freedman.

250B

Identification of a pathway involved in the cadmium-responsive transcriptional regulation of metallothionein expression. **Julie Hall**, Jonathan Freedman.

251C

Osmotic stress and loss of Notch ligands extend *C. elegans* lifespan via FOXO and sirtuins. Edward N. Anderson, Mark Corkins, David Sinclair, **Anne C. Hart**.

252A

EMS Mutagenesis of Early Embryos: Does checkpoint status affect the mutational spectrum? James Barry, Whitney Finstad, Numan Khan, Dean Williams, **Phil Hartman**.

253B

The KGB-1 JNK signaling pathway negatively regulates FOS-1 transcription factor in stress response. **Ayuna Hattori**, Tomoaki Mizuno, Naoki Hisamoto, Kunihiro Matsumoto.

254C

A Biochemical Approach for the Identification of new DAF-16 Binding-partners. **Thomas W. Heimbucher**, Fonslow Bryan, Yates Jonathan, Dillin Andrew.

255A

DAF-12 regulates a connected network of genes to ensure robust developmental decisions. **Daniel Hochbaum**, Alfred L. Fisher.

256B

The sexual dimorphic response to dietary restriction. **Sakiko Honjoh**, Yukiko Kajiura, Eisuke Nishida.

257C

C. elegans vang-1 modulates life span and stress resistance via insulin/IGF-1-like signaling. **S. Honnen**, C. Büchter, V. Schröder, A. Kampkötter, O. Bossinger.

258A

Investigating the role of *C. elegans* BRAP-2 in regulation of the oxygen radical detoxification response. **Queenie Hu**, Janet Koon, Terry J. Kubiseski.

259B

High throughput toxicity screen using *C. elegans* and propidium iodide. **Piper R. Hunt**, Nicholas Olejnik, Robert L. Sprando.

260C

CeleST, a sophisticated software package for the simultaneous quantitation of multiple swimming *C. elegans* for aging and locomotion analysis. **C. Ibanez-Ventoso**, C. Restiff, S. Guo, D. Metaxas, M. Driscoll.

261A

Intermittent fasting-induced longevity requires cholesterol in *C. elegans*. **Akiko Ihara**, Sakiko Honjoh, Masaharu Uno, Hiroyuki Yoshimura, Eisuke Nishida.

262B

Genes involved in mevalonate and ubiquinone metabolism are essential for delayed muscle aging. **Luv Kashyap**, Alfred Fisher.

263C

Characterization of *C. elegans* mutants deficient in base excision repair genes. **Yuichi Kato**, Takahito Moriwaki, Atsumi Ikemoto, Kazunari Hashiguchi, Qiu-Mei Zhang-Akiyama.

264A

Telomere lengthening in suppressor mutants of telomerase deficient *Caenorhabditis elegans*. **Chuna Kim**, Beomseok Seo, Junho Lee.

265B

Caenorhabditis elegans HIM-6 has a 3'-5' helicase activity and is responsible for DNA damage processing. **Eunsun Kim**, Moonjung Hyun, Sojin Park, Hyejin Park, Byungchan Ahn.

266C

Delimiting a polymorphic longevity locus on the left arm of Chromosome IV using traditional and high throughput longevity assays. **Gunnar Kleemann**, Joshua Boom, Leonid Kruglyak, Coleen Murphy.

267A

Identification of mutations that delay reproductive or somatic aging of *Caenorhabditis elegans*. **Sandeep Kumar**, Stacie E. Hughes, Cheng Huang, Kerry Kornfeld.

268B

Translational Control of Tumor Formation in *C. elegans*. **Caroline Kumsta**, Malene Hansen.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

269C

The ESRE stress-response network - analysis of an evolutionary conserved pathway. **Aleksandra P. Kuzmanov**, David S. Fay.

270A

NAD⁺ Recycling, Sirtuins, and Stress: A Complex Relationship. **Stephanie E. Lange**, Wendy Hanna-Rose.

271B

Nucleotide Excision Repair and its regulation in *C. elegans* development. Andrea E. Karambelas, Daniel Cupac, Özge Z. Aydin, Gert Jansen, Jan H. J. Hoeijmakers, Wim Vermeulen, **Hannes Lans**.

272C

Autophagy links lipid metabolism to longevity in *C. elegans*. **Louis Lapierre**, Sara Gelino, Alicia Meléndez, Malene Hansen.

273A

Identification of glucose-regulatory genes using a genome-wide RNAi screen. **Dongyeop Lee**, Dae-Eun Jeong, Seung-Jae Lee.

274B

GTP binding protein Nog1 homologue regulates fat storage, development and lifespan. **Ho-Hyun Lee**, Ju-Yeon Lee, Jeong-Hoon Cho.

275C

AMP-dependent protein kinase regulates nutrition dependent diapause in *C. elegans*. **Inhwan Lee**, Young-Jai You.

276A

OASIS, an open-access and user-friendly online application for survival analysis. Jae-Seong Yang, Hyun-Jun Nam, Mihwa Seo, Seong Kyu Han, Yonghwan Choi, Hong Gil Nam, **Seung-Jae Lee**, Sanguk Kim.

277B

Exploring the function of progeroid *WRN* gene homologues in *C. elegans*. **Hayley Lees**, Lynne Cox, Alison Woollard.

278C

A dominant mutation in *xrep-3* encoding the bZIP transcription factor SKN-1 abnormally induces GST expression in *Caenorhabditis elegans*. Koichi Hasegawa, **Chi K. Leung**, Keith P. Choe, Johji Miwa.

279A

Homeostatic regulation of the WDR-23/ SKN-1 stress response. **Chi K. Leung**, Keith P. Choe.

280B

Differential roles of thioredoxin reductases in *C. elegans*. **Weixun Li**, Jeong Hoon Cho, Jaya Bandyopadhyay, Sunkyoung Lee, Joohong Ahnn.

281C

The affect of chronic hypoxia on developmental trajectory, lifespan, and egg-laying behavior. **B. Little**.

282A

Lifespan extension with protection against β -Amyloid toxicity with FDA approved drugs discovered in a two species screen. **Alex Lublin**, Harshil Patel, Isoda Fumiko, Nguyen Linda, Hajje Daher, Swartz Marc, Mobbs Charles.

283B

A large scale small molecule screen identifies a group of structurally related compounds that extend the lifespan of *C. elegans*. **Mark Lucanic**, Ivan Yu, Dipa Bhaumik, Jill Graham, Aaron Miller, Robert Hughes, Gordon Lithgow.

284C

High Saturated Fat Diet Disrupts Mitochondrial Function via Reactive Oxygen Species Pathways in *C. elegans*. **Maya Magana**, Stephanie Bryner, Lucinda Carnell, Carin Thomas.

285A

The Nuclear Receptor NHR-8 Regulates Sterol Metabolism, Development, and Lifespan in *C. elegans*. **Daniel Magner**, Joshua Wollam, Dangling Li, Adam Antebi.

286B

The transcriptional changes associated with food type-dependent lifespan effects. **Wolfgang Maier**, Roxani Gatsi, Martin Regenass, Joy Alcedo.

287C

A transgenerational effect on lifespan. **Frederick G. Mann**, Stuart Kim.

288A

INS-18, one of *Caenorhabditis elegans* insulin-like peptides, is required for the crosstalk of TGF- β signaling with insulin/IGF-I signaling. **Y. Matsunaga**, K. Gengyo-Ando, S. Mitani, T. Iwasaki, T. Kawano.

289B

Exploring real-time *in vivo* redox biology in *Caenorhabditis elegans*. Patricia Back, Winnok De Vos, **Filip Matthijssens**, Bart Braeckman.

290C

Identification of longevity targets in *C. elegans* translation mutants. **Philip McQuary**, Joyce Chu, Malene Hansen.

291A

The role of autophagy in lifespan extension by resveratrol and spermidine. **Evgenia Megalou**, Nektarios Tavernarakis.

292B

Adaptation to hydrogen sulfide modulates protein homeostasis. Emily Fawcett, Kate Stoll, **Dana L. Miller**.

293C

The analysis of mismatch repair in *C. elegans*. **Takahito Moriwaki**, Yuichi Kato, Satoru Ishikawa, Kazunari Hashiguti, Qiu-Mei Zhang-Akiyama.

294A

C. elegans HSF-1 is a dynamic nuclear protein whose activity is affected by sumoylation in response to proteotoxic stress. **Elizabeth Morton**, Todd Lamitina.

295B

Unexpected antagonistic pleiotropy in the *sod-4* extracellular superoxide dismutase gene in *C. elegans*. **S. Murakami**, H. Murakami, A. Yeh, B. V. Nia, D. Lim.

296C

Clarifying misconceptions about age-related memory impairment (AMI). **S. Murakami**.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

297A

Characterization of cellular functions of UFD-2 and UFD-3, C-terminal adaptors for CDC-48, in *C. elegans*. **Yuki Murayama**, Yohei Sasagawa, Teru Ogura, Kunitoshi Yamanaka.

298B

Studies on Toxicity of Nano Iron Employing Model System *Caenorhabditis elegans*. Supinder Kaur, Shreesh Raj Sammi, Pooja Jadia, **Aamir Nazir**.

299C

Dietary Epigenetics and Neurodegenerative Diseases: Effect of Calorie Restriction on Dopaminergic Neurodegeneration in *Caenorhabditis elegans*. Pooja Jadia, Shreesh Raj Sammi, Supinder Kaur, **Aamir Nazir**.

300A

AMPK activation is protective in models of neuron dysfunction and death in Huntington's disease. Rafael Vazquez-manrique, Karine Cambon, Nicolas Offner, Aurélie Darbois, Anne-marie Orfila, Nicole Déglon, **Christian Neri**.

301B

Neuroprotection by Sirtuin sir-2.1 from Expanded Polyglutamines Requires β -catenin in *C. elegans* and the Age-at-Onset of Huntington's Disease is Modified by the β -catenin Repressor GSK-3 β . J. Alex Parker, Cendrine Tourette, Nicolas Offner, Rafael Vazquez-Manrique, Arnad Mukhopadhyay, Aurelie Darbois, Sophie Menet, Anne-Marie Orfila, Guillaume Dolbeau, Susanne Swenke, Patrick Maison, Michael Orth, Alexis Brice, Alexandra Durr, Anne-Catherine Bachoud-Levi, Heidi Tissenbaum, **Christian Neri**, European Huntington's Disease Network.

302C

Circadian rhythms in *C. elegans*. **Maria Olmedo**, Martha Merrow.

303A

Why Make Fat?: The Impact of de novo Fatty Acid Synthesis on Reproduction and Longevity. **Carissa Perez Olsen**, Marc R. Van Gilst.

304B

Insulin Signaling and Dietary Restriction Differentially Regulate Glucose Metabolism to Impact *C. elegans* Healthspan. **Brian D. Onken**, Monica Driscoll.

305C

The FLH family of transcription factors is epistatic with the insulin/IGF-1 signaling pathway and modulates L1 diapause and stress resistance in *C. elegans*. **Maria Ow**, Victor Ambros.

306A

Characterization of exceptional longevity pathways in *C. elegans*. **Jennifer Paek**, Stephanie Chan, Xiao Xiao, Jacqueline Lo, Sean P. Curran.

307B

Aluminium Toxicity and Elemental Composition Changes in *Caenorhabditis elegans*. **Kathryn E. Page**, David W. Killilea, Keith N. White, Catherine R. McCrohan, Gordon J. Lithgow.

308C

Genetic Analysis of Age-Dependent Defects of *C. elegans* Touch Receptor Neurons. **C.-L. Pan**, C.-Y. Peng, C.-H. Chen, Steven L. McIntire.

309A

Detection of DNA Strand Breaks detection in *Caenorhabditis elegans* using Comet assay. **Sojin Park**, Moonjung Hyun, Eunsun Kim, Hyejin Park, Byungchan Ahn.

310B

Insulin receptor signaling prolongs lifespan under high glucose conditions by restoring glyoxalase-1 activity. **Michael Pfeiffer**, Andreas Schlotterer, Youssef Ibrahim, Georgi Kukudov, Thomas Flemming, Angelika Bierhaus, Peter Nawroth, Michael Morcos.

311C

Caenorhabditis elegans APN-1 plays a vital role in maintaining genome stability. Chadi Zakaria, Henok Kassahun, Xiaoming Yang, Jean-Claude Labbé, Hilde Nilsen, **Dindial Ramotar**.

312A

'Gerontometabolites' Define A Unique Metabolic Signature In Long-Lived Mit Mutants. Jeffrey J. Butler, **Shane L. Rea**.

313B

Lifespan extension via eIF4G inhibition is mediated by post-transcriptional remodeling of stress response gene expression in *C. elegans*. **Aric N. Rogers**, Di Chen, Gregg Czerwieniec, Gawain McColl, Krysta Felkey, Simon Melov, Bradford W. Gibson, Alan Hubbard, Gordon Lithgow, Pankaj Kapahi.

314C

Investigating the spatial and temporal dynamics of protein oxidation in *C. elegans*. **Catalina Romero**, Javier Apfeld, Walter Fontana.

315A

Epidermal Growth Factor Signaling Activates The Ubiquitin Proteasome System To Modulate *C. elegans* Lifespan. Gang Liu, Jason Rogers, Coleen Murphy, **Christopher Rongo**.

316B

The R148.3 (OcaB) gene controls longevity and fat accumulation in the nematode *C. elegans*. **Catherine Roy-Bellavance**, Évelyne Rondeau, Stéphanie Miard, Frédéric Picard.

317C

The effects of nickel toxicity upon survival, growth, and reproduction in nematodes. C. D. Douglas, J. M. Besser, C. G. Ingersoll, **D. Rudel**.

318A

SKN-1-independent oxidative stress signaling from mitochondria to the nucleus. **Eva D. Runkel**, Shu Liu, Ralf Baumeister, Ekkehard Schulze.

319B

Understanding the emergence of dynamic response of the reproductive system of *Caenorhabditis elegans* to chronic heat stress. Patrick D. McMullen, Erin Z. Aprison, Peter Winter, Luis A. Amaral, Richard I. Morimoto, **Ilya Ruvinsky**.

320C

The recruitment of HSR-9 (53BP1) in response to double-strand DNA breaks requires methylation of histone H4 Lysine 20 in *C. elegans*. **Jinsun Ryu**, Sang Jo Kang, Hyeon-Sook Koo.

321A

Deciphering HIF-1 regulatory networks: An interdisciplinary approach to diagnosing stress resistant phenotypes. **Jenifer Saldanha**, Archana Parashar, Qi Ye, Santosh Pandey, Jo Anne Powell-Coffman.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

322B

Insulin signaling pathway genes facilitating thermotolerance and protein homeostasis. Sara Farrell, Lindsay Stolzenburg, Jesse Llop, David Johnson, **Andrew V. Samuelson**.

323C

Caenorhabditis elegans NDX-1 has an 8-oxo-7, 8-dihydrodeoxyguanosine 5'-diphosphate pyrophosphatase activity that contributes to prevent against oxidative stress. **U. Sanada**, Qiu-Mei Zhang-Akiyama.

324A

Gene by environment interaction reveals proteostasis sub network for adult health and longevity. **A. R. Sanchez**, S. Takano, P. L. Larsen.

325B

Variable Pathogenicity Determines Individual Lifespan in *C. elegans*. **Adolfo Sanchez-Blanco**, Stuart Kim.

326C

MicroRNA Modulation of *C. elegans* aging. **Mitalie Shah**, Mehul Vora, Monica Driscoll.

327A

Regulation of Autophagy by RNF-5, an E3 Ubiquitin Ligase. **S. Sheffy Levin**, L. Broday.

328B

Monascus-fermented dioscorea enhances oxidative stress resistance via insulin signaling pathway. **Yeu Ching Shi**, Tzu-Ming Pan, Vivian Liao.

329C

The *C. elegans* WRN-2 having the exonuclease domain of Werner syndrome protein is required for efficient cell cycle arrest in response to ionizing radiation. **Hyo ju Shin**, Se jin Lee, Hyeon-Sook Koo.

330A

The DAF-2 somatic longevity pathway interfaces with PRG-1-mediated germ cell immortality. **Matt A. Simon**, Eric Miska, Shawn Ahmed.

331B

Non-monotonic relationship between tissue levels of 4-hydroxynonenal (4-HNE) and lifespan in *C. elegans*. Kevin E. McElhanon, Kira C. Bennett, Ludwika Zimniak, Piotr Zimniak, **Sharda P. Singh**.

332C

The role of ubiquitin-conjugating enzymes in polyglutamine protein aggregation. **Gregory A. Skibinski**, Lynn Boyd.

333A

Modeling membrane protein misfolding in *C. elegans*. Liping He, **Jennifer Skirkanich**, Lorenza Moronetti, Todd Lamitina.

334B

The Lifespan Machine comes of age: Time-dependent changes in the action of insulin signaling are revealed by high-resolution mortality data. **Nicholas Stroustrup**, Javier Apfeld, Walter Fontana.

335C

Identification of DNA maintenance genes specifying the extended longevity of the Mit mutants. **Alessandro Torgovnick**, Alfonso Schiavi, Roberto Testi, Shane Rea, Natascia Ventura.

336A

Studies towards understanding the function of the transcription factor DAF-16. **Jennifer M. A. Tullet**, Caroline Araiz, Eugene Schuster, David Gems.

337B

The mechanisms underlying an age-dependent reversal in the protective capacities of the non-neuronal JNK-homolog KGB-1. **Kwame Twumasi-Boateng**, Tim Wang, Linda Tsai, Lianqun Wu, Michael Shapira.

338C

A conserved JNK/AP-1 module is a key mediator of intermittent fasting-induced longevity in *C. elegans*. **Masaharu Uno**, Sakiko Honjoh, Eisuke Nishida.

339A

A genome-wide RNAi screen identifies alternative pathways for activating phase 2 detoxification gene expression in response to arsenite. Helen M. Crook, Monika Oláhová, **Elizabeth A. Veal**.

340B

Electron transport chain disruption extends lifespan and reduces fat accumulation through p53-dependent induction of autophagy. A. Schiavi, A. Torgovnick, E. V. Megalou, R. Testi, N. Tavernarakis, **N. Ventura**.

341C

Reproductive Aging in *C. elegans* Males. I. Chatterjee, **P. Vijay**, C. Ibanez-Ventoso, J. Bair, M. Driscoll, A. Singson.

342A

Investigating the function of NAD⁺ salvage biosynthesis in energy production and storage. **Wenqing Wang**, Kelsey J. Krebs, Marisa J. Pacella, Wendy Hanna-Rose.

343B

The effects of altered omega-3 fatty acid composition on lifespan and stress. Joel Greggain, Christopher Webster, **Jennifer Watts**.

344C

Regulation of oocyte quality by the level of germ cell death. **Qing Wei**, Sara Andux, Ronald Ellis.

345A

Identifying natural genetic variation in stress and aging pathways in *Caenorhabditis remanei* populations. **John H. Willis**, Patrick Phillips.

346B

A GATA transcriptional circuit guides aging in *C. elegans*. **Xiao Xu**, Stuart Kim.

347C

Identification of molecular compensation system of *sod*-genes expression in nematode *C. elegans*. Koumei Yazaki, **Sumino Yanase**, Taro Sakamoto, Yasuhito Nakagawa, Naoaki Ishii.

348A

A Mitochondrial Superoxide Signal Triggers Increased Longevity in *C. elegans*. **Wen Yang**, Siegfried Hekimi.

349B

Nuclear Envelope Proteins: Regulation of Meiotic Recombination and Role in Reproductive Aging. **Alice Y. Ye**, Needhi Bhalla.

350C

Dissecting the interaction between insulin/IGF-1 and TOR signaling pathways. **Kelvin Yen**, Heidi Tissenbaum.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

351A

Deciphering mechanisms by which EGF signaling protects against the aging process. **Simon Yu**, Hiroaki Iwasa, Jian Xue, Monica Driscoll.

352B

The role of GATA transcription factors *elt-5* and *elt-6* in aging. **Stephanie M. Zimmerman**, Yelena V. Budovskaya, Stuart K. Kim.

Physiology: Dauer larvae and metabolism

353C

Small molecule modulators of dauer signaling pathways and life span. **Ben Becker**, Adam Antebi.

354A

CYP-35A5 and NHR-88 act together to coordinate brood size. **Alison Brooks**, Marc Van Gilst.

355B

Role of G-protein coupled receptor signaling in *C. elegans* fat metabolism. **Claudio Comunian**, Tallie Noble, Supriya Srinivasan.

356C

Do Dauers differ ? - Comparative analysis of Dauer proteome and metabolome signatures in three nematode species. Zisong Chang, Guido Mastrobuoni, Hans-Joachim Knölker, Stefan Kempa, **Christoph Dieterich**.

357A

Functions of Acyl-CoA Binding Proteins in *C. elegans*. **Ida C. Elle**, Pernille K. Birck, Thuc T. Le, Nils J. Faergeman.

358B

Defining the role of ABC transporters in vitamin B12 metabolism using the model organism *Caenorhabditis elegans*. **Julie-Anne Fritz**, Megan McDonald, Padmaja Dharwadkar, Deborah Scheuchner, Floyd Snyder, Avalyn Lewis, Liang Li, Roy Gravel.

359C

Prostaglandin signaling in dauer formation and aging. **Makoto Horikawa**, Adam Antebi.

360A

GPCR signaling in free-living and parasitic nematode models: the cholecystokinin story. **T. Janssen**, L. Peeters, I. Beets, L. Temmerman, E. Meelkop, N. Suetens, W. Grant, L. Schoofs.

361B

ENPL-1/GRP94 interacts with ASNA-1 and promotes Insulin/IGF secretion in *Caenorhabditis elegans*. Balasubramanian Natarajan, Peter Naredi, **Gautam Kao**.

362C

Data mining of global interactome studies yields new modulators of *C. elegans* insulin signaling. Ola Billing, Balasubramanian Natarajan, Ateequr Rahman Mohammed, Peter Naredi, **Gautam Kao**.

363A

Neuronal secretion of *C. elegans* DAF-28/insulin requires functional mitochondria. Ola Billing, Peter Naredi, **Gautam Kao**.

364B

HRG-9 regulates systemic heme homeostasis in *C. elegans*. **T. Korolnek**, I. Hamza.

365C

Y47D7A.16: a riboflavin transporter in *C. elegans* and homolog of human Riboflavin Transporter 2. **Craig W. Lamunyon**, Arundhati Biswas, Jason Rothman, Hamid Said.

366A

DHS-21, a dicarbonyl/L-xylulose dehydrogenase (DCXR) ortholog, regulates longevity and reproduction in *C. elegans*. **Son T. Le**, Tae-Woo Choi, Gunasekaran Singaravelu, Sun-Kyung Lee, Joohong Ahnn.

367B

Regulation of insulin and neuropeptide signaling by the Bardet-Biedl Syndrome complex. **Brian H. Lee**, Kaveh Ashrafi.

368C

Dafadine Promotes Dauer-Formation and Lifespan-Extension of *C. elegans* by Inhibiting the Cytochrome P450 DAF-9. **Genna M. Luciani**, Lilia Magomedova, Rachel Puckrin, Malene L. Urbanus, Iain M. Wallace, Guri Giaever, Corey Nislow, Carolyn L. Cummins, Peter J. Roy.

369A

Local triglyceride synthesis by DGAT-2 promotes lipid droplet expansion. Ningyi Xu, Shaobing Zhang, Ronald Cole, Sean McKinney, Fengli Guo, **HoYi Mak**.

370B

Role of lipid signaling molecules in energy balance in *C. elegans*. **Thomas P. Mathews**, Tallie Noble, Benjamin F. Cravatt, Supriya Srinivasan.

371C

Histidine Protects Against Zinc and Nickel Toxicity in *C. elegans*. **John T. Murphy**, Janelle J. Bruinsma, Daniel L. Schneider, Sara Collier, James Guthrie, Asif Chinwalla, J. David Robertson, Elaine R. Mardis, Kerry Kornfeld.

372A

Starvation-signalling in *gpb-2*. **Robert H. Pollok**, Chanhee Kang, Leon Avery.

373B

Knockout of the folate transporter *fol-1* induces sterility and metabolic defects that are alleviated by supplementation with other B vitamins. **Jason A. Rothman**, Craig LaMunyon.

374C

The role of rsks-1 in regulation of fat metabolism. **Ming Sheng**, Josefin Nyström-Friberg, Staffan Lundstedt, Simon Tuck.

375A

Determining the role of heterotrimeric G proteins in dauer entry. **Julien Shoenfeld**, Bryan Danzi, Edith Myers.

376B

Glycogen debranching enzyme AGL-1 regulates embryogenesis and lifespan through AMP Kinase dependent and independent pathways. **Jeffrey S. Simske**.

377C

S-adenosylmethionine synthetase SAMS-1 regulates brood size in *C. elegans*. **Hiroko Tamiya**, Keiko Hirota, Yuta Takahashi, Hiroaki Daitoku, Naoaki Ishii, Akiyoshi Fukamizu.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

378A

Genetic Regulation of Starvation Induced Adult Reproductive Diapause (ARD). **Bargavi Thyagarajan**, Giana Angelo, Marc Van Gilst.

379B

Increasing *C. elegans* lifespan by inhibiting *E. coli* folate metabolism, but not *E. coli* proliferation. **Bhupinder Virk**, David Dixon, David Weinkove.

380C

PNC-1 regulation NAD⁺ synthesis but not absolute NAD⁺ levels promotes muscle development and function in *C. elegans*. **Tracy L. Vrablik**, Wenqing Wang, Wendy Hanna-Rose.

381A

Purification and characterization of *C. elegans* cytoplasmic malate dehydrogenase. Wei Gu, Penelope L. Lindsay, Justin W. Spengler, **Katherine M. Walstrom**.

382B

Rationing of Energy Stores in *C. elegans* during Dauer Stage. **Meng Xie**, Richard Roy.

383C

Suppressors of *daf-18* L1 arrest phenotype and investigating a role for DAF-18 protein phosphatase activity. **Michael R. Zanetti**, Peter E. Hand, Ian D. Chin-Sang.

Physiology: Pathogenesis

384A

Indolequinazoline Alkaloids Evodiamine and Rutaecarpine Suppress Multivulva of an Activating Ras Mutant. **Kosuke Amagasa**, Kahori Asano, Yusuke Morioka, Asuka Kambe, Hideshi Inoue.

385B

Role of FSHR-1 targets in regulating the *Caenorhabditis elegans* innate immune response. **Hannah L. Anthony**, Jonathan D. Hibshman, Jennifer R. Powell.

386C

O-GlcNAc cycling is a regulator of innate immunity in *Caenorhabditis elegans*. **Michelle R. Bond**, Michael W. Krause, John A. Hanover.

387A

Comparative Metabolite Profiling Identifies Toxic Phenazines Produced by *Pseudomonas aeruginosa*. **Brent Cezairliyan**, Nawaporn Vinayavekhin, Daniel Grenfell-Lee, Grace Yuen, Alan Saghatelian, Frederick Ausubel.

388B

Characterization of the pathogenicity of Enterohaemorrhagic *E. coli* in *C. elegans*. Ting-Chen Chou, Cheng-Ju Kuo, Hao-Chieh Chiu, Ching-Ming Wu, **Chang-Shi Chen**.

389C

SIR-2.3 is involved in Cry5B pore-forming toxin defense in *C. elegans*. **Huan-Da Chen**, Cheng-Yuan Kao, Raffi V. Aroian, Chang-Shi Chen.

390A

Characterization of the Intestinal Autophagy Response Against *Vibrio cholerae* hemolysin. **Hediye N. Cinar**, Surasri N. Sahu, Oluwakemi Odusami.

391B

Testing the "glycine zipper" model for the formation of toxic β -amyloid oligomers. **Vishantie Dostal**, Gin Fonte, Christine M. Roberts, Patrick Gonzales, Christopher D. Link.

392C

Characterization of Viruses that infect *Caenorhabditis* Nematodes. **Carl J. Franz**, Yanfang Jiang, Guang Wu, Tony Belicard, Marie-Anne Felix, David Wang.

393A

Muscle degeneration: a protein misfolding problem? April R. Reedy, Angela Rea-Boutrios, Maité Carre-Pierrat, Laurent Segalat, **Kathrin Gieseler**.

394B

Mitochondrial Fission Protects *C. elegans* from Amyloid-Beta Toxicity. **Patrick K. Gonzales**, Christopher D. Link.

395C

Molecular characterization and suppression of *srf-2*, a DUF23 surface-antigenicity gene that affects bacterial infection. **Maria J. Gravato-Nobre**, Simon Spiro, Tom Baker, Dave Stroud, Jonathan Hodgkin.

396A

Host seeking and the evolution of olfactory behavior in parasitic nematodes. **Elissa A. Hallem**, Adler R. Dillman, Manon L. Guillermin, Paul W. Sternberg.

397B

Manganese-transporters have an important roles in innate immune system in *Caenorhabditis elegans*. **Hwan-Jin Kim**, Ju-Yeon Lee, Joeng-Hoon Cho.

398C

A novel, high-throughput, liquid killing assay of *P. aeruginosa* infection of *C. elegans* provides insight about pathogenesis and host defense. **Natalia V. Kirienko**, Jonah Larkins-Ford, Carolina Wählby, Frederick M. Ausubel.

399A

Screening of natural products as anti-infectives towards *Staphylococcus aureus* using an *in vivo* *Caenorhabditis elegans* infection model. **Cin Kong**, Man-Wah Tan, Sheila Nathan.

400B

Genetic analysis of *Caenorhabditis elegans* responses to grassland soil bacteria reveals both specific and general functions. **Vinod Kurumathurmadam Mony**, Michael Herman.

401C

Identifying host factors required for Sindbis virus replication using *C. elegans*. **Michael Laha**, Hugo Decker, Ellen Bradley, Charles Rice, Margaret MacDonald, Shai Shaham.

402A

Innate immune response to microsporidian infection. **Amy T. Ma**, Emily R. Troemel.

403B

Identifying *P. aeruginosa* factors that activate *C. elegans* immunity. **Deborah L. McEwan**, Frederick M. Ausubel.

404C

Protective role of *dj-27*, a thioredoxin family member, on *C. elegans* models of Alzheimer's and Parkinson's Diseases. **F. Munoz-Lobato**, CD Link, S. Hamamichi, KA Caldwell, GA Caldwell, A. Miranda-Vizuete.

405A

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

Genetic architecture of natural variation in *Caenorhabditis elegans* pathogen avoidance. **R. Nakad**, B. Snoek, S. Ellendt, T. G. Mohr, K. Dierking, J. E. Kammenga, H. Schulenburg.

406B

Morphological Study of Muscle Degeneration in *C.elegans*. **Nicolas Brouilly**, Claire Lecroisey, Laura Pierson, Kathrin Gieseler.

407C

Mutations in *bus-10*, encoding a putative membrane protein, alter both susceptibility and resistance to different bacterial infections. **Delia M. O'Rourke**, Rebecca Price, Nicholas Lillios, Maria Gravato-Nobre, Jonathan Hodgkin.

408A

Regulation of PMK-1 p38 MAPK-dependent immunity by the transcription factor ATF-7 in *C. elegans*. **Daniel J. Pagano**, Dennis H. Kim.

409B

Genomic Analysis of Immune Response Against *Vibrio cholerae* Hemolysin in *Caenorhabditis elegans*. **Surasri Sahu**, Jada Lewis, Isha Patel, Serdar Bozdogan, Joseph LeClerc, Hediye Cinar.

410C

A Feeding RNAi Screen to identify novel genes in anti-viral immunity in *C. elegans*. **Shruthi Satish**, Zhihuan Gao, Stephanie Coffman, YuanYuan Guo, Michael Cantrell, Gina Broitman-Maduro, Morris Maduro, Shou-wei Ding.

411A

Characterization of pathogenesis of *S. aureus* and involvement of checkpoint response in *C. elegans*. **Lone V. Scholer**, Steffen Noerregaard, Frederik D. Hansen, Kurt Fuursted, Anders Olsen.

412B

Towards a SNP map for *Heterorhabditis bacteriophora*. **Hillel Schwartz**, Paul Sternberg.

413C

LIN-7 PDZ Modulates DAF-2-mediated Innate Immunity Signaling and Infection Sensitivity in *Caenorhabditis elegans*. **Xiao-Hui Sem**, Jason Kreisberg, Mikael Rhen, Patrick Tan.

414A

Key residues of Cry5B structure and function: mutagenesis by alanine screening. **Jillian Sesar**, Yan Hu, Raffi V. Aroian.

415B

Caenorhabditis elegans commensals provide protection from *P. aeruginosa* infection. Sirena Montalvo-Katz, Oliver Huang, Susannah Tringe, **Michael Shapira**.

416C

Fat Burning in Sleeping Worms: Regulation of Multiple Signaling Pathways by Kruppel Like Factors. **Shahid S. Siddiqui**, Sarwar Hashmi, Jun Zhang, Chen Yang, Immanuel Dhansingh, David Gozal.

417A

Microarray analysis of pathogen response in *C. elegans* and *P. pacificus* reveals differences in molecular effectors of innate immunity. **Amit Sinha**, Igor Iatsenko, Robbie Rae, Ralf J. Sommer.

418B

Expression patterns of an FSHR-1 transcriptional target gene upon infection of *C. elegans* by *P. aeruginosa*. **Jordann A. Smak**, Jennifer R. Powell.

419C

Responses of *C. elegans* to Pathogenic Challenge. **Gregory Stupp**, Steven L. Robinette, Ramadan Ajredini, Paul A. Gulig, Arthur S. Edison.

420A

Molecular characterization of *Coprinopsis cinerea* lectins-mediated toxicity against *C. elegans*. **Katrin Stutz**, Alex Butsch, Silvia Bleuler-Martinez, Mario Schubert, Markus Aebi, Markus Künzler, Michael O. Hengartner.

421B

A *C. elegans* model for cell autonomous, non-autonomous, and delayed hypoxic injury. **Chun-Ling Sun**, C. Michael Crowder.

422C

G-protein coupled receptor OCTR-1 controls innate immunity by regulating non-canonical unfolded protein response genes. **Jingru Sun**, Varsha Singh, Rie Kajino-Sakamoto, Alejandro Aballay.

423A

A Calpain based muscle repair/remodelling system in *C. elegans*. Beth Oczypok, Tim Etheridge, Brandon Fields, Lew Jacobson, **Nate Szewczyk**.

424B

Understanding the effects of the intracellular pathogen *Nematocida parisii* infection of the *C. elegans* intestine on intracellular trafficking and cytoskeleton components. **Suzy Szumowski**, Emily Troemel.

425C

C. elegans clhm-1 encodes a novel voltage-gated, Ca^{2+} permeable ion channel that regulates cell excitability. **Jessica E. Tanis**, Zhongming Ma, Predrag Krajacic, Liping He, J. Kevin Foskett, Todd Lamitina.

426A

Non-lytic, actin-based exit of intracellular parasites from *C. elegans* intestinal cells. Kathleen A. Estes, **Emily R. Troemel**.

427B

Development of *C. elegans* models for Amyotrophic Lateral Sclerosis. **Alexandra Vaccaro**, Arnaud Tauffenberg, Alex Parker.

428C

The interaction between *C. elegans* and the emerging nosocomial pathogen *Stenotrophomonas maltophilia*. **Corin White**, Vinod Mony, Brian Darby, Michael Herman.

429A

Enterococcus infection of *Caenorhabditis elegans* as a model of innate immunity. **Grace J. Yuen**, Read Pukkila-Worley, Frederick M. Ausubel.

430B

Dissecting the molecular pathway underlying IFT modeling. **Qing Zhang**, Yuxia Zhang, Qing Wei, Jinghua Hu.

Neurobiology: Neuronal development

431C

The Role of the Argonaute Protein, ALG-1, in *C. elegans* Neural Development. **Cristina Aguirre-Chen**, Christopher M. Hammell.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

432A

The atypical Cdc-42-like GTPases CHW-1 and CRP-1 redundantly regulate axon pathfinding and cell migration. **Jamie K. Alan**, Erik A. Lundquist.

433B

Dissections of *lin-11* neuronal enhancers in *C. elegans* and *C. briggsae*. **Siavash Amon**, Bhagwati Gupta.

434C

Rapid and reversible arborization of IL2 neurons during dauer development. Nathan E. Schroeder, **Rebecca J. Androwski**, Maureen M. Barr.

435A

To branch or not to branch? Role of *png-1* in limiting axon branching in *C. elegans*. **Nasrin Babadi**, Claudia Arauz, Anna Su, Antonio Colavita.

436B

Cholinergic motor neurons are required for the positioning of GABA receptor clusters at the neuromuscular junction. **Belinda Barbagallo**, Michael Francis.

437C

An Investigation into the Affect of Neuronal Activity on Proper Neural Connectivity in *C. elegans*. **Ben Barsi-Rhyné**, Kristine Miller, Joori Park, Emma Holdrich, Miri VanHoven.

438A

Investigation of the UNC-6/Netrin and UNC-40/DCC-Mediated Synaptic Partner Recognition Pathway in *C. elegans*. **Kelli L. Benedetti**, Aruna Varshney, Akshi Goyal, Dianicha Santana-Nuñez, Pooja Prasad, Joori Park, Miri VanHoven.

439B

A Family of Eight Small 2-Ig Domain Proteins Functions to Protect Neuronal Architecture. **Cassandra Blanchette**, Claire Bénard.

440C

A *prkl-1* suppressor screen to identify new planar cell polarity components involved in neuronal polarity. **D. Carr**, J. Visanuvimol, L. Sanchez-Alvarez, A. Colavita.

441A

Loss of the soluble guanylate kinase *guk-1* results in multiple developmental defects. **Margaret R. Casazza**, Douglas Portman.

442B

Integrin Cooperates with UNC-40 to Guide Muscle Arm Extension. **Kevin K. Chan**, Peter J. Roy.

443C

UNC-119 acts to maintain neuronal differentiation. **Brittney Chilton**, Andrew Gorzalski, Fern Bosada, Scott Clark.

444A

An F-box protein FSN-1 Regulates Retrograde Insulin Signalling. Wesley Hung, Christine Hwang, Edward Liao, **Jyothsna Chitturi**, Ying Wang, Hang Li, Mei Zhen.

445B

Sex pheromone perception in *C. elegans* is under the regulation of TGF β and IGF signals acting in the nervous system. KC Fan, **KL Chow**.

446C

DAF-18/PTEN regulates neurodevelopmental axon outgrowth through isoform-specific DAF-16/FOXO activity. **R. Christensen**, A. Byrne, M. Hammarlund, D. A. Colón-Ramos.

447A

A screen for mutants with defective hypodermal attachment of mechanosensory neurons. **Brian Coblitz**, Martin Chalfie.

448B

Mechanisms of BAG sensory cilia specification. **Astrid Cornils**, Piali Sengupta.

449C

The LAMMER kinase MADD-3 Functions Cell-Autonomously to Direct Muscle Arm Extension. **Serena A. D'Souza**, Louis Barbier, Rachel Puckrin, Peter Roy.

450A

Regulation of axon extension and termination by RPM-1. **Maria Fernanda daSilva**, Scott Clark.

451B

Identification of novel loci interacting with the Kallmann Syndrome gene *kal-1*. **Carlos A. Diaz-Balzac**, Nathali Gomez, Hannes Buelow.

452C

Syndecan modulates growth cone migration and morphology during axon regeneration. **Tyson Edwards**, Marc Hammarlund.

453A

COEL-1, a metazoan specific protein, is required for proper function of microtubules in Touch Receptor Neurons. **M. Y. Frederic**, V. F. Lundin, M. D. Whiteside, D. K. Tu, D. L. Baillie, J.-M. Bellanger, H. Hutter, F. S. Brinkman, M. R. Leroux.

454B

Characterization of intracellular calcium signaling within damage *C. elegans* neurons. Lin Sun, Samuel Chung, Fay Gao, Kevin Roodhouse, **Christopher V. Gabel**.

455C

An EMS screen in *C. elegans* for genes affecting RID axon guidance. **Q. Ge**, X. Li, X. Huang.

456A

Development and Function of RIS, a *Caenorhabditis elegans* GABAergic interneuron. **Marie Gendrel**, Diana Cai, George Baison, Darym Alden, Oliver Hobert.

457B

Mechanisms of UNC-86-mediated gene regulation in the BDU neurons. **Patricia Gordon**, Oliver Hobert.

458C

EGL-13, a SOX transcription factor, regulates neuronal cell fate determination of the BAG neurons. **Jakob Gramstrup Petersen**, Roger Pocock.

459A

RAE-1 a novel PHR binding protein regulates axon termination and synapse formation. **B. Grill**, L. Chen, E. D. Tulgren, S. T. Baker, M. Anderson, W. Bienvenut, Y. Jin, C. C. Garner.

460B

The role of Eph signaling in amphid commissure guidance. **Emily N. Grossman**, Andrew D. Chisholm.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

461C

Axon guidance defects displayed by *zfp-1* and *lin-35* mutants depend on the presence of the transgene *oxIs12*. **Stephan Gysi**, Michael Hengartner.

462A

A new class of mutants alters dendrite length in URX oxygen-sensing neurons. Ian G. McLachlan, Valeri J. Thomson, Shai Shaham, **Maxwell G. Heiman**.

463B

Wnt signals and Frizzled receptors regulate dendrite formation in *C. elegans*. Leonie Kirszenblat, Divya Pattabiraman, Brent Neumann, **Massimo A. Hilliard**.

464C

Regulation of expression of the Netrin axon guidance system. **Kelly L. Howell**, Oliver Hobert.

465A

The *C. elegans* CDK8 Mediator module regulates specific axon guidance decisions in the ventral cord and suppresses SAX-3/ROBO activity during dorsal axon navigation. Andreas Steimel, Jinky Suh, Angela Hussainkhel, Samineh Deheshi, Jennifer Grants, Richard Zapf, Donald Moerman, Stefan Taubert, **Harald Hutter**.

466B

New methods to study nerve bundle organization. **Richard Ikegami**, Gian Garriga.

467C

Searching for factors required for BAG cell fate determination. **Vaida Juozaityte**, Konstantinos Kagias, Roger Pocock.

468A

Sexual specification of ventral cord neurons. **Andrea K. Kalis**, Djem Kissiov, Breanna Tetreault, Jennifer Ross Wolff.

469B

Roles of 2-Ig domain proteins ZIG-1, ZIG-5, ZIG-8 and their interactions with SAX-7 in neuronal maintenance. **Anagha Kulkarni**, Claire Bénard.

470C

Cell fate determination of oxygen sensing neurons in *C. elegans*. **Kasper Langebeck-Jensen**, Teresa Rojo, Roger Pocock.

471A

Genome-wide RNAi screening for *vhp-1* suppressors in *C. elegans*. **Chun Li**, Naoki Hisamoto, Paola Nix, Shuka Kanao, Tomoaki Mizuno, Michael Bastiani, Kunihiro Matsumoto.

472B

Neuron developmental defects caused by ethanol exposure. **Conny H. C. Lin**, Sasha Sa, Ken Ke-Chih Huang, Catharine Rankin.

473C

DM-domain genes *dmd-3* and *mab-23* specify critical cell fate characteristics in the male *C. elegans* ray sensorimotor circuit. M. Siehr, A. Sherlekar, P. Koo, X. Bian, D. Portman, **R. Lints**.

474A

Sensory Nerve Ending Regeneration during Development of the *C. elegans* Dopaminergic PDE Neurons. **Xuemin Lu**, Tori Hatch, Rita Droste, Robert Horvitz.

475B

Identifying Genes that turn Skin Cells into Neurons. **G. Minevich**, M. Doitsidou, S. Gowtham, H. Korswagen, O. Hobert.

476C

UNC-40 is required for neuronal morphogenesis and synapse distribution in the serotonergic NSM neuron in *C. elegans*. **Jessica C. Nelson**, Daniel Colón-Ramos.

477A

C. elegans as model system to study Nephhrin/Neph protein functions. Nicola Wanner, Tobias B. Huber, **Elke Neumann-Haefelin**.

478B

UNC-73/Trio, the Rac GTPases, UNC-33/CRMP and UNC-44/Ankyrin are required for limiting the extent of growth cone filopodia protrusion and ectopic axon branching. **Adam Norris**, Erik Lundquist.

479C

A copine like protein CPNA-2 regulates neural localization of UNC-6/Netrin in *Caenorhabditis elegans*. Taro Asakura, Kumiko Fujita, Yoshio Goshima, **Ken-ichi Ogura**.

480A

Wnt, Frizzled, CAM-1/ROR and LIN-18/RYK signaling establish anteroposterior neuronal polarity. **Daniel Oliver**, Scott Clark.

481B

microRNA regulation of neuronal guidance in *C. elegans*. **Mikael Egebjerg Pedersen**, Goda Snieckute, Roger Pocock.

482C

A Forward Genetic Screen to Identify New Synaptic Partner Recognition Genes. Shanté O'Hanlon, Anabel Ortiz, **Minh Pham**, Mekala Raman, Miri VanHoven.

483A

CEH-28 regulates neuroendocrine function of the M4 pharyngeal neuron by activating *dbl-1* expression. **Kalpana Ramakrishnan**, Paramita Ray, Peter Okkema.

484B

HLH-3 expression is necessary during embryogenesis for proper HSN differentiation and function. **Saleel V. Raut**, Aixa Alfonso.

485C

A genetic analysis of the axon guidance of the *C. elegans* pharyngeal neuron M1. **Osama M. Refai**, Evvi Rollins, Patricia Rohs, Jeb Gaudet.

486A

PLR-1 regulates Wnt signaling by reducing cell surface levels of Frizzled and CAM-1/ROR. **Ryan Robinson**, Scott Clark.

487B

MIG-10/Lamellipodin and Abelson-interactor-1(ABI-1) act together to mediate directed migration and outgrowth in *C. elegans*. M. McShea, S. Zhang, M. Kuhlwein, S. Hashmi, M. Dubuke, C. Grant, K. L. Schmidt, E. G. Stringham, **E. F. Ryder**.

488C

MADD-2 Regulates Guidance to the Midline through an UNC-40/DCC pathway in *C. elegans*. **Ashwin Seetharaman**, Mariam Alexander, Guillermo Selman, Peter Roy.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

489A

The glutamatergic nervous system of *C. elegans*. **E. Serrano**, O. Hobert.

490B

Doublets' well kept secret: the sister singlets. **Malan Silva**, Robert O'Hagan, Ken Nguyen, David H. Hall, Maureen Barr.

491C

Netrin instructs presynaptic assembly through a synaptic MIG-10 isoform and the actin cytoskeleton. **Andrea K. Stavoe**, Jessica C. Nelson, Daniel A. Colón-Ramos.

492A

Regulatory logic of pan-neuronal gene expression in *C. elegans*. **Nikolaos Stefanakis**, Inés Carrera, Oliver Hobert.

493B

The Arp2/3 complex and UNC-115/abLIM act downstream of CDC-42 in neuronal lamellipodia and filopodia formation. **Eric C. Struckhoff**, Erik A. Lundquist.

494C

UNC-40/DCC, PTP-3/LAR, and MIG-21 regulate anterior-posterior polarization and migration of the Q neuroblasts. **Lakshmi Sundararajan**, Erik Lundquist.

495A

The Role of 3-O Sulfation of Heparan Sulfate in Neuronal Development in *C. elegans*. **Eillen Teele**, Hannes Buelow.

496B

HBL-1 patterns synaptic remodeling in *C. elegans*. **Katherine L. Thompson-Peer**, Jihong Bai, Joshua Kaplan.

497C

The Messiness of Combinatorial Control. **Irini Topalidou**, Martin Chalfie.

498A

The prolyl 4-hydroxylase dpy-18 is required for specific axon guidance events. **Nanna Torpe**, Roger Pocock.

499B

PPM-1, a PP2C α/β phosphatase, regulates axon termination and synapse formation in *C. elegans*. **E. Tulgren**, S. Baker, L. Rapp, A. Gurney, B. Grill.

500C

Sox genes in early nervous system development. **Berta Vidal Iglesias**, Oliver Hobert.

501A

Identifying new players involved in dorsal-ventral axon guidance in *C. elegans*. **Jinbo Wang**, Xia Li, Mei Zhen, Xun Huang.

502B

Ciliogenesis in *Caenorhabditis elegans* requires genetic interactions between *nphp-2* and transition zone associated genes. **Simon RF Warburton-Pitt**, Andrew R. Juaregui, Chunmei Li, Michel R. Leroux, Maureen M. Barr.

503C

Understanding the molecular mechanisms that mediate axon outgrowth termination in *C. elegans*. **William Wung**, Johann Zaroli, Kelli Benedetti, Phil Knezevich, Joori Park, Nathan Cook, Miri VanHoven.

504A

The RFX Transcription Factor DAF-19 Couples Toll-interleukin 1 Receptor Domain Protein TIR-1 Signaling to Regulation of Neuronal Activities in *C. elegans*. **Y. Xie**, M. Moussaif, S. Choi, J. Sze.

505B

Tectonic contributes to transition zone complexes required for proper ciliogenesis. **Laura Yee**, Rachel Bowie, Oliver Blacque, Kaveh Ashrafi, Jeremy Reiter.

506C

Characterization of a L1 axon guidance phenotype in the mechanosensory neurons and the role of lethal genes in axon guidance. **Fabian P. S. Yu**, Ahmed M. Mohamed, Ian D. Chin-Sang.

507A

Searching for Negative Regulators of Neurite Outgrowth in *Caenorhabditis elegans*. **Bo Zhang**, Song Song, Xun Huang, Mei Ding.

508B

The C2H2 Zn finger transcription factor LSY-27 is involved in controlling a lateralized neuronal differentiation program in *C. elegans*. **Feifan Zhang**, Maggie O'Meara, Oliver Hobert.

509C

Identification of the sex pheromone receptors in AWA neuron. **Yuan Zhou**, King-Lau Chow.

Neurobiology: Synaptic function and circuits

510A

Interaction of an alpha-catulin homologue, CTN-1, with dystrobrevin (DYB-1) determines the localization of BK channels in *Caenorhabditis elegans* muscles. **Linu S. Abraham**, Hyun J. Oh, Hongkyun Kim.

511B

Sink or Swim: A Screen for Dopamine-Dependent Modulation of Swimming Behavior. **Sarah R. Baas**, J. Andrew Hardaway, Shannon L. Hardie, Sarah Whitaker, Bing Zhang, Randy D. Blakely.

512C

The Stomatins UNC-1 and STO-6 Function in the *C. elegans* Motor Circuit. **Louis Barbier**, Michelle Po, Taizo Kawano, Mei Zhen.

513A

Degeneracy and neuromodulation in the thermosensory circuit regulates robustness in thermosensory behaviors in *C. elegans*. **Matthew Beverly**, Sriram Anbil, Harold Bell, Piali Sengupta.

514B

Genetic and Neural Pathways Underlying Light-induced Inhibition of Pharyngeal Pumping by *C. elegans*. **Nikhil Bhatla**, Bob Horvitz.

515C

Genetic, pharmacological and calcium imaging analysis of mutants affecting HSN activity. **Robyn Branicky**, William R. Schafer.

516A

The receptor tyrosine phosphatase *clr-1* is required for axon regeneration in *C. elegans*. **Rebecca Brown**, Marc Hammarlund, Stephen Strittmatter.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

517B

A screen for suppressors of RHO-1 neuronal signaling identifies the dopamine reuptake transporter DAT-1. **Kimberley Bryon**, Andrew Porter, Rachel McMullan, Stephen Nurrish.

518C

Comparative connectomics reveals the neurobiological basis for predatory feeding behavior in *Pristionchus pacificus*. **Daniel J. Bumbarger**, Metta Riebesell, Ralf J. Sommer.

519A

Dopamine-mediated effects of phenylethylamine in living worms and isolated embryonic neurons. Bryan Safratowich, Rochelle Wickramasekara, **Lucia Carvelli**.

520B

CALM-1 is a Calcium Dependent Regulator of Synaptic Adhesion During Neuronal Development. **Raymond Caylor**, Brian Ackley.

521C

Muscarinic signaling in motor neurons facilitates neurotransmission and is dependent on Ca⁺⁺ and sphingosine kinase, *sphk-1*. **Jason P. Chan**, Derek S. Sieburth.

522A

How larvae wiggle: functional analysis of the L1 larva locomotory circuit. **Sway P. Chen**, Anji Tang, Quan Wen, Aravinthan D. T. Samuel.

523B

Sensory inputs regulate excitatory synaptic transmission at neuromuscular junctions. **S. Choi**, Z. Hu, J. M. Kaplan.

524C

C. elegans: A Neurological Model to Characterize a Small Conductance Calcium-Activated K⁺ Channel. **CK Chotoo**, DC Devor, CJ Luke.

525A

A computational model of associative learning and chemotaxis in the nematode worm *C. elegans*. **Netta Cohen**, Peter Appleby.

526B

The *C. elegans* ERG (Ether-a-Go-Go Related Gene) K⁺ channel is a synaptically localized inhibitor of vulval muscle electrical excitability. **Kevin M. Collins**, Michael R. Koelle.

527C

Synaptic Change During *C. Elegans* Lethargus. **Nooreen S. Dabbish**, David M. Raizen.

528A

Monoamine Oxidase Inhibitors in Monoamine Receptor Mutants. **Janet Duerr**, Nanda Filkin, Kiel Kreuzer, Joseph Ipacs, Theresa White.

529B

The Role of Palmitoylation in Neuronal Exocytosis in *Caenorhabditis elegans*. **Matthew Edmonds**, Timothy Frost, Mary Doherty, Alan Morgan.

530C

Suppressors of neuronal RHO-1 reveal multiple downstream pathways. **Muna Elmi**, Andrew Porter, Rachel McMullan, Stephen Nurrish.

531A

Circuits for Copulation in the *C. elegans* Male Tail. A. Bloniarz, T. Jarrell, Y. Wang, M. Xu, D. H. H. Hall, **S. W. Emmons**.

532B

Function of VAV-1 in nervous system control of locomotion.

Amanda Fry, Kenneth Norman.

533C

The functional connectivity of male-specific CEM neurons in *C. elegans*. **Lan Fu**, King L. Chow.

534A

Dopamine signaling for regulating experience-dependent odor avoidance. **Kosuke Fujita**, Kotaro Kimura.

535B

A Co-operative Regulation of Neuronal Excitability by UNC-7 Innexin and NCA/NALCN Leak Channel. Magali Bouhours, Michelle Po, **Shangbang Gao**, Lin Xie, Wesley Hung, Hang Li, John Georgiou, John Roder, Mei Zhen.

536C

Analysis of the Molecular Mechanism of Serotonin Signaling in *C. elegans*. **Guliz Gurel**, Michael Koelle.

537A

Identification of chloride transporters that regulate GABA signaling. **B. Han**, A. Bellemer, M. Koelle.

538B

Partners in Fatty Acid Beta Oxidation: Role of KLF-3 in Fat Burning and Reproductive Behavior of *C. elegans*. **Sarwar Hashmi**, Jun Zhang, Xiao-Liang Chen, Mahmood Hussain, I. Dhansingh, Shahid Siddiqui.

539C

A new connectivity model for the locomotion network. **Gal Haspel**, Michael J. O'Donovan.

540A

Contribution of LEV-8 Subunit to the Kinetics of Activation and Desensitization of *C. elegans* Muscle Levamisole-Sensitive Nicotinic Receptors. **Guillermina S. Hernando**, Diego H. Rayes, Cecilia B. Bouzat.

541B

Braking fusion: synaptotagmin relieves the complexin block on synaptic release. **RJ. Hobson**, S. Watanabe, Q. Liu, EM. Jorgensen.

542C

Microbial proton pumps as hyperpolarizers complement the optogenetics toolbox in *Caenorhabditis elegans*. **Steven J. Husson**, Jana F. Liewald, Jeffrey N. Stirman, Hang Lu, Alexander Gottschalk.

543A

C. elegans mutants defective in neuropeptide amidation enzymes are abnormal in egg-laying behavior. **Steven J. Husson**, Liesbet Temmerman, Bart Landuyt, Ellen Meelkop, Niels Ringstad, H. Robert Horvitz, Alexander Gottschalk, Liliane Schoofs.

544B

Integration of temperature signals in interneurons of *C. elegans*. **Shingo Ikeda**, Tsubasa Kimata, Ikue Mori.

545C

Neuronal modeling toward quantitative understanding of nervous system of *C. elegans*. **Yuishi Iwasaki**, Masahiro Kuramochi, Kazumi Sakata, Shigekazu Oda, Yuichi Iino, Ryuzo Shingai.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

546A

Stress response to food deprivation is modulated by non-synthesizing 5-HT neurons that absorb non-synaptic 5-HT, via 5-HT transporter, MOD-5/SERT, in *C. elegans*. **Gholamali Jafari**, Bin Liang, Andrey Kullyev, Ji Ying Sze.

547B

Forward screen for mutants lacking a food block on olfactory adaptation. **Laine Janzen**, Amanda Cha, Ghazal Ghafari, Stephanie Summers, Sara Llamas, Pilar Stinson, Noelle L'Etoile, Jared Young.

548C

Progress Towards a Reconstruction of a *C. elegans* Male Anterior Nervous System. **T. Jarrell**, Y. Wang, A. Bloniarz, M. Xu, C. Brittin, K. Nguyen, D. H. H. Hall, S. W. Emmons.

549A

Temporal processing of olfactory information in *C. elegans* chemosensory neurons. **Saul Kato**, Yifan Xu, Christine Cho, L. F. Abbott, Cornelia Bargmann.

550B

Characterization of the novel TOM-1 binding partner, VPS-39, in *C. elegans*. **Susan M. Klosterman**, Szi-Chieh Yu, Anna O. Burdina, Janet E. Richmond.

551C

AGS-3 alters *C. elegans* behavior after food deprivation via RIC-8 activation of the neural G protein $G_{\alpha o}$. Catherine Hofer, **Michael Koelle**.

552A

Oxidative stress induces loss of GFP labeled neurons and delayed development to adulthood in an *unc-13* mutant. Caitlyn McLarnon, Caitlin McGee, Lauren King, Christopher Frymoyer, Elizabeth Roth, Laura Gurenlian, Alicia N. Minniti, Nibaldo C. Inestrosa, **Rebecca E. Kohn**.

553B

Investigation of Anaphase Promoting Complex Function in Regulating Synaptic Transmission at the *C. elegans* Neuromuscular Junction. **Jennifer R. Kowalski**, Hitesh Dube, Tina Jumani, Peter Juo.

554C

An approach towards identification of cell recognition molecules involved in synapse specificity in the nematode *Caenorhabditis elegans*. **Maria I. Lazaro-Pena**, Adam Bloniarz, Travis Jarrell, Scott W. Emmons.

555A

ABI-1 controls acetylcholine receptor clustering and rpy-1 expression level. **Bo Yun Lee**, Seugnhee Nam, Junho Lee.

556B

Short-term synaptic depression and vesicle pool refilling at the *C. elegans* neuromuscular junction. **Qiang Liu**, Shigeki Watanabe, Erik Jorgensen.

557C

C. briggsae *puf-2* regulates pharyngeal muscle physiology and is essential for postembryonic development. **Qinwen Liu**, Eric Haag.

558A

Screening for ACR-16 clustering mutants. **Ashley A. Martin**, Feyza Sancar, Janet E. Richmond.

559B

The *sup-1* gene encodes a novel transmembrane protein that interacts with the UNC-17 vesicular acetylcholine transporter in *C. elegans*. **Ellie Mathews**, Greg Mullen, Jonathan Hodgkin, Janet Duerr, Jim Rand.

560C

C. elegans Presenilin Regulates Muscle Cell Excitability. **Erin E. McClure**, Ken R. Norman.

561A

Epileptogenesis: Using *C. elegans* to elucidate the mechanism of a neural circuitry switch. **Allyson V. McCormick**, James H. Thomas, Brian C. Kraemer.

562B

The DAF-7/TGF- β signaling pathway regulates the abundance of the glutamate receptor GLR-1 in the ventral nerve cord. **Annette McGehee**, Peter Juo.

563C

Affinity Purification and Identification of Complexes of Interacting Proteins Directly from the *C. elegans* Nervous System. Christopher Hoover, Stacey Edwards, Michael Kinter, Caroline Kinter, **Kenneth Miller**.

564A

Forward Genetic Analysis of Dense Core Vesicle Maturation and Function. Stacey Edwards, Christopher Hoover, **Kenneth Miller**.

565B

Functional imaging of neuronal activity for 2-nonanone stimulation. **Yosuke Miyanishi**, Junichi Nakai, Kotaro Kimura.

566C

The Novel Conserved Gene *C44B9.1* Regulates *C. elegans* Behavior through G Protein Signaling and Likely Regulates Synaptic Vesicle Release. **N. Paquin**, A. Froehlich, D. Omura, H. R. Horvitz.

567A

Mutants that fail to respond to exogenous serotonin identify new serotonin signaling genes. **Judy S. Pepper**, Michael R. Koelle.

568B

An ADAMTS-Like protein is required for acetylcholine receptor localization. **Berangere Pinan-Lucarre**, Valerie Robert, Jean-Louis Bessereau.

569C

ACR-12 receptor signaling complexes regulate motor circuit activity. **Hilary Prescott**, Marian Haburcak, Michael Francis.

570A

A neuropeptide-mediated stretch response links muscle contraction to changes in neurotransmitter release. Zhitao Hu, **Edward Pym**, Kavita Babu, Amy Vashlishan Murray, Joshua Kaplan.

571B

A Gq and CaMKII-dependent serotonergic circuit in *C. elegans* aversive olfactory learning. **Yuqi Qin**, Xiaodong Zhang, Yun Zhang.

572C

Transgenic expression of mammalian neuroligin rescues the phenotypes of *C. elegans* neuroligin-deficient (*nlg-1*) mutants. Jerrod Hunter, Greg Mullen, Ellie Mathews, Jessica Heatherly, **Jim Rand**.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

573A

UNC-41/stonin functions with AP2 to recycle synaptic vesicles in *C. elegans*. Greg Mullen, Kiely Grundahl, Mingyu Gu, Shigeki Watanabe, Robert Hobson, John McManus, Ellie Mathews, Erik Jorgensen, **Jim Rand**.

574B

The core apoptotic executioner proteins CED-3 and CED-4 promote initiation of neuronal regeneration in *Caenorhabditis elegans*. B. Pinan-Lucarre, C. V. Gabel, **C. P. Reina**, M. Driscoll.

575C

Control of acetylcholine receptor maturation and ER homeostasis by a new transmembrane complex. **Magali Richard**, Thomas Boulin, Janet Richmond, Jean-Louis Bessereau.

576A

Single-neuron photoactivation by cell-specific expression of Channelrhodopsin-2 using the cre-lox system to analyze habituation in sensory neural circuits. **Cornelia Schmitt**, Alexander Gottschalk.

577B

Carbon dioxide avoidance is mediated by a diverse set of sensory neurons in *C. elegans*. **Z. Soltesz**, A. J. Bretscher, M. de Bono.

578C

Notch signaling regulates synaptic transmission at the neuromuscular junction. **Altar Sorkaç**, Komudi Singh, Michael DiIorio, Anne Hart.

579A

WDR-23 mediates synaptic transmission by regulating the transcription factor SKN-1 in motor neurons. **Trisha Staab**, Trevor Griffen, Derek Sieburth.

580B

A conserved role of α -adducin (ADD-1) in memory, synaptic plasticity, and in AMPA-type glutamate receptor dynamics. Vanja Vukojevic, Leo Gschwind, Christian Vogler, Philippe Demougin, Dominique de Quervain, Andreas Papassotiropoulos, **Attila Stetak**.

581C

Subcellular localization and protein interactions of PTL-1 in *Caenorhabditis elegans*. **Kathleen M. Susman**, Joshua Sturm, Celia McKee, Eunice Chou, Nancy J. Pokrywka.

582A

New Approach in Systems Neuroscience in *C. elegans*. **Hiroshi Suzuki**.

583B

MOD-5/SERT Function in 5-HT-absorbing Neurons Controls Behavioral Response to Food Deprivation. G. Jafari, Y. Xie, A. Kullyev, B. Liang, **J. Sze**.

584C

A genome-wide RNAi screen for levamisole sensitivity identifies new regulators of post-synaptic signaling. **Jessica E. Tanis**, Timothy Chaya, Todd Lamitina.

585A

Gustatory plasticity in *C. elegans* involves sensitisation of ASH nociceptive neuron and desensitisation of ASE gustatory neuron. **Oluwatoroti Umuerrri**, Martijn Dekkers, Gert Jansen.

586B

Modulation of Neuropeptide Release by Locomotion. **Amy B. Vashlishan Murray**, Kavita Babu, Edward C. G. Pym, Zhitao Hu, Joshua M. Kaplan.

587C

An Open-Source Neuromechanical Model of *C. Elegans* Locomotion. **Thomas Voegtlin**, Netta Cohen.

588A

Regulation of a rhythmic behavior in *C. elegans* by neuropeptide signaling. **Han Wang**, Kelly Girskis, Krishnakali Dasgupta, Derek Sieburth.

589B

The Role of Nicotinic Acetylcholine Receptors in Antipsychotic-induced Phenotypes in *Caenorhabditis elegans*. **T. Xu**, X. Wang, L. Hao, BM Cohen, EN Buttner.

Neurobiology: Behavior

590C

Genetic analysis of acute ethanol responsive behaviors in *C. elegans*. **Joseph Alaimo**, Keith Shelton, Andrew Davies, Jill Bettinger.

591A

Calcium-dependent regulation of proton signaling during a rhythmic behavior in *C. elegans*. **Erik Allman**, Keith Nehrke.

592B

Investigating neural coding and interacting circuits. **Evan L. Ardiel**, Andrew C. Giles, Ithai Rabinowitch, William R. Schafer, Catharine H. Rankin.

593C

A Possible Role for *nhr-239* in Sensory Response. **G. Michael Baer**, Christopher Alvaro, Benjamin Perlman, Bruce Wightman.

594A

Characterization of an evolutionary conserved vasopressin/oxytocin-like signaling system in *C. elegans*. **Isabel Beets**, Ellen Meelkop, Liesbet Temmerman, Tom Janssen, Marleen Lindemans, Liliane Schoofs.

595B

A role for heterochronic genes in regulating *C. elegans* quiescence. **Heather L. Bennett**, Komudi Singh, Edward Anderson, Mark E. Corkins, Anne C. Hart.

596C

Membrane lipid environment is important for the development of acute functional tolerance to ethanol. **Jill C. Bettinger**, Mia H. Bolling, Kapo Leung, Joseph T. Alaimo, Andrew G. Davies.

597A

Huffing and drinking are not the same: Screening for targets of toluene and ethanol. Ryan I. Friedberg, ChungLung Chan, Hersh Gupta, Victoria E. Brings, Charlotte M. Wincott, Keith L. Shelton, **Jill C. Bettinger**, Andrew G. Davies.

598B

Lethargus is a highly regulated behavior, characterized by quiescence and motion-bouts and a typical posture. S. Iwanir, S. Nagy, N. Tramm, C. Wright, **D. Birón**.

599C

Spontaneous recovery from habituation to tap is interstimulus interval-dependent. **Ricardo Bortolon**, Catharine H. Rankin.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

600A

A *C. elegans* movement assay for the assessment of neurotoxicity and genetic mutations. **Windy A. Boyd**, Daniel W. Snyder, Grace E. Kissling, Jonathan H. Freedman.

601B

Maintenance of the identity of the chemosensitive BAG neurons requires an ETS family transcription factor. **Julia P. Brandt**, Sonya Aziz-Zaman, Jennifer K. Lee, Niels Ringstad.

602C

Perception of bacteria by the AWC neuron. **Chantal Brueggemann**, Damien O'Halloran, Noelle L'Etoile.

603A

Samamide is a new small-molecule probe of behavioural quiescence in *C. elegans*. **Andrew R. Burns**, Suji Tharmalingam, William S. Ryu, Sean R. Cutler, David R. Hampson, Peter J. Roy.

604B

Spatial memory in *C. Elegans*. **Adam Calhoun**, Tatyana Sharpee, Sreekanth Chalasani.

605C

The paraoxonase-like protein K11E4.3 is needed for gentle touch and mec-4(d)-mediated neurodegeneration. **Yushu Chen**, Martin Chalfie.

606A

Characterization of Electrotaxis Behavior in *C. elegans*. **Steven D. Chrisman**, Eric Foss, Lucinda Carnell.

607B

The rescue of ODR-1. **Kimberly D. Collins**.

608C

Dopaminergic receptor signaling in sex-muscles antagonizes cholinergic induced excitability post-eyaculation during male mating of *C. elegans*. **Paola Correa**, Garcia Rene.

609A

Dissecting predator/prey interactions in *C. elegans*. **Kevin Curran**, Ray Hong, Sreekanth Chalasani.

610B

Uncovering the molecular basis for ethanol activation of the BK channel using random mutagenesis. **Scott J. Davis**, Sam Song, Kelly Milman, Jon Pierce-Shimomura.

611C

Behavioral characterization of BTBD9 homolog knockout in *C.elegans*. **Athin Doroodchi**, Mark DeAndrade, Anthony Bucolo, Michael Miller, Charles Amsler, Qiang Ding, Yuqing Li.

612A

The functional importance of the MEC-4 transmembrane domain in force activation of the channel. **Amy L. Eastwood**, Miriam B. Goodman.

613B

Innexin gene *inx-4* mutant is defective in thermotaxis. **Taishi Emmei**, Nana Nishio, Hiroyuki Sasakura, Mari Akasaka, Ikue Mori.

614C

Overexpression of APL-1 disrupts learning via the insulin/IGF-1 and TGF- β pathway. **Collin Ewald**, Ruby Cheng, Lana Tolen, Vishal Shah, Aneela Gillani, Afsana Nasrin, Chris Li.

615A

Modeling neuron, circuit and biology of *Caenorhabditis elegans* leads to a digital worm that conducts automatic locomotion, providing testable hypothesis regarding reversal control. Shijie Zhang, Beverly Piggot, Wei Jin, Shawn Xu, Jiong Yang, **Zhaoyang Feng**.

616B

Role of the 5-HT₁ receptor homolog, *ser-4*, and the CREB homolog, *crh-1*, in behavioral adaptation to chronic activation of serotonergic pathways in *C. elegans*. **Eric Foss**, Lucinda Carnell.

617C

Chemotaxis behavior is regulated by germline in *C. elegans*. **M. Fujiwara**, N. Sato, S. Maruyama, T. Akamine, T. Ishihara.

618A

Automated and Quantitative Method to Identify Satiety Quiescence by Locomotion. **Thomas L. Gallagher**, Young-jai You.

619B

Quantitative genetic dissection of a behavioral sequence in *C. elegans*. **Rajarshi Ghosh**, William S. Ryu, Leonid Kruglyak.

620C

Secondary Allele Screen for Extreme Habituation Phenotypes after High Throughput Behavioral Characterization of a Nervous-system-biased Mutant Library. **Andrew C. Giles**, Nicholas A. Swierczek, Rex A. Kerr, Catharine H. Rankin.

621A

Male mating potency decline during adulthood is correlated with the increase of sex muscles excitability in *C. elegans*. **Xiaoyan Guo**, Rene Garcia.

622B

Another PKG: C09G4.2. **Anu Gupta**.

623C

Candidate mediators of the food block on olfactory adaptation. **Paula M. Gutierrez**, Jared Young, Joshua Braslow, Noelle L'Etoile.

624A

The Effect of Hermaphrodite Sperm Status on *C. elegans* Sexual Attraction. **Leonard A. Haas**, Natalia Morsci, Maureen Barr.

625B

Antipsychotic drug-induced developmental delay and lethality require the sphingomyelin synthase gene *sms-1*. **L. Hao**, B. Cohen, E. Buttner.

626C

TYRA-3 mediates the tyraminerpic "inhibition" of 5-HT-stimulated aversive responses in *Caenorhabditis elegans*. **Vera M. Hapiak**, A. Stein, A. Korchnak, R. W. Komuniecki.

627A

Oriental Beetle Pheromone Insensitive Mutants in *Pristionchus pacificus*. Jonathan Yaghoobian, Jessica Ciinkornpumin, Judy Salandanan, Neomal Muthumala, Jeffrey Shibata, Christoph Dieterich, **Ray Hong**.

628B

Molecular mechanism governing interaction between nematodes and nematophagous fungi. **Yen-Ping Hsueh**, Erich Schwarz, Ry Forseth, Frank Schroeder, Paul Sternberg.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

629C

An RNAi screen for defecation mutants. Andrew Burns, **Lois Immerman**, Jessica Bennett, Latarsha Porscher, Samuel McCright, Hillary Mullan, Monica Raible, Matthew Miller, Maureen Peters.

630A

CRF receptor-like GPCR mediated stress response and regulates behavioral states in *C. elegans*. **Changhoon Jee**, Jungsoo Lee, Steven McIntire, L. René García.

631B

EGL-19, UNC-36 and CCB-1 underlie voltage-dependent calcium currents in *C. elegans* striated muscle. Viviane Lainé, Christian Frøkjær Jensen, **Maëlle Jospin**.

632C

CNP-2 (Calcineurin Interacting Protein-2) modulates calcineurin activity in *Caenorhabditis elegans*. **Hana Jung**, Hyun-Ok Song, Weixun Li, Sunkyung Lee, Joohong Ahnn.

633A

Role of ER resident proteins Calnexin and Calreticulin in Chemosensory Behavior in *C. elegans*. **Karunambigai Kalichamy**, Sunkyung Lee, Joohong Ahnn.

634B

C. elegans locomotory pattern, pausing frequency and speed is regulated by the CEP sheath glia. **Menachem Katz**, Francis Corson, Shai Shaham.

635C

Biomechanical analysis of *C. elegans* locomotion. **Daeyeon Kim**, Jin-Sung Park, David Weitz, Jennifer H. Shin.

636A

Food Size and cGMP Affects Feeding Behavior in *Pristionchus pacificus*. **Silvina Kroetz**, Ray Hong.

637B

Analysis of temperature memory in cultured thermosensory neuron AFD of *C. elegans*. **K. Kobayashi**, I. Mori.

638C

A Deletion Mutation of the *C. elegans* CaMKII Gene *unc-43* Inhibits Associative Conditioning and Modulates Non-Associative Conditioning. **Sara M. Knauff**, Robert M. Bragg, Jade R. Brusseau, Jacqueline K. Rose.

639A

Experience-dependent modulation of salt preference in *C. elegans*. **Hirofumi Kunitomo**, Ryo Iwata, Hirofumi Sato, Hayao Ohno, Yuichi Iino.

640B

The Ca²⁺-binding C2 domain of PKC-2 couples thermal activation of TAX-2/TAX4 to *C. elegans* behavior. **Marianne Land**, Charles Rubin.

641C

Do ascarosides affect egg-laying behavior in *Caenorhabditis elegans*? **Circe Lassegue**, Ramadan Ajredini, Rathika Nimalendran, Arthur Edison.

642A

K⁺ channel interplay modifies male mating response. **Brigitte L. LeBoeuf**, L. Rene Garcia.

643B

Tracing the genetic basis of the nictation behavior by QTL mapping. **Daehan Lee**, Junho Lee.

644C

Neuronal Regulation of Nictation Behavior in *Caenorhabditis elegans*. **Harksun Lee**, Myung-kyu Choi, Daehan Lee, Hye-sung Kim, Hyejin Hwang, Heekyeong Kim, Sungsu Park, Young-ki Paik, Junho Lee.

645A

STR-33, a novel G protein-coupled receptor that regulates locomotion and egg-laying in *Caenorhabditis elegans*. **J. E. Lee**, P. Y. Jeong, H. J. Joo, H. Kim, T. H. Lee, H. Koo, Y. K. Paik.

646B

Identification of Genes that Mediate Ethanol-Induced Acute Functional Tolerance in *C. elegans*. **Ka-Po Leung**, Mia Bolling, Gina Blackwell, Jennifer Gardner, Andrew Davies, Jill Bettinger.

647C

Genetic and molecular investigation of PKD-2 and LOV-1 involved in male *C. elegans* perception of sex pheromone. **Rachel C. K. Li**, King L. Chow.

648A

The neural circuits underlying harsh touch sensation in *C. elegans*. **Wei Li**, Lijun Kang, Beverly Piggott, Zhaoyang Feng, Shawn Xu.

649B

The robustness of *C. elegans* male mating behavior depends on the distributed properties of ray sensory neurons and their output through core and male-specific targets. Pamela Koo, Xuelin Bian, Amrita Sherlekar, Meredith Bunkers, **Robyn Lints**.

650C

Candidate screen for mutants defective in long-term memory of habituation. **Andrea McEwan**, Catharine Rankin.

651A

Humoral Cholinergic Signaling Augments Male Reproductive Motivation. **James T. Midkiff**.

652B

Screen to identify mutants that fail to adapt to the inhibitory effects of serotonin on locomotory behavior. **Spencer Moen**, Eric Foss, Lucinda Carnell.

653C

Assessing the neurotoxic effects of microcystins by developing a simple *C. elegans* model. **Caroline Moore**, Noelle L'Etoile, Birgit Puschner.

654A

Coordinated neural and mechanical modifications regulate sexual variation in *C. elegans* locomotor behavior. **William R. Mowrey**, Douglas S. Portman.

655B

Isolation and analysis of dauer pheromone response-defective (*phd*) mutants. **Scott J. Neal**, Kyuhyung Kim, Rebecca A. Butcher, Frank C. Schroeder, Piali Sengupta.

656C

The role of cilia in cGMP signaling in the AFD thermosensory neuron. **Phuong Anh T. Nguyen**, Jacque-Lynne Johnson, Michel R. Leroux.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

657A

Analysis of molecular basis for thermotactic behavior regulated by CREB in *Caenorhabditis elegans*. **Yukuo Nishida**, Takuma Sugi, Mayu Nonomura, Ikue Mori.

658B

Appetitive olfactory learning and associative long-term memory in *C. elegans*. **Saori Nishijima**, Ichiro Maruyama.

659C

Quantitative analysis of exploratory patterns during thermotaxis. **Yuta Ochiai**, Yuki Tsukada, Ikue Mori.

660A

Biased motion in unbiased environments: are the worms navigating? **Margherita Peliti**, John Chuang, Stanislas Leibler, Shai Shaham.

661B

A calcineurin homologous protein is required for multiple sodium-proton exchange events in the *C. elegans* intestine. Jamie Wagner, Erik Allman, Ashley Taylor, Kiri Ulmschneider, Timothy Kovanda, Bryne Ulmschneider, Keith Nehrke, **Maureen Peters**.

662C

Influence of Body Mechanics on Force Thresholds for Touch Sensation in *C. elegans*. **Bryan C. Petzold**, Sung-Jin Park, Miriam B. Goodman, Beth L. Pruitt.

663A

Mammalian rhodopsin can functionally substitute for *C. elegans* photoreceptor to restore light sensitivity in worms. **Beverly J. Piggott**, Jingwei Gao, Jie Liu, X. Z. Shawn Xu.

664B

Hypoxia avoidance response in *C. elegans* requires *goa-1* and *dgk-1*. **Jason N. Pitt**, Mark B. Roth.

665C

Is lethargus essential? **David M. Raizen**, Robert J. Driver, Annesia L. Lamb.

666A

Uncovering the molecular and cellular basis for hygrosensation in *C. elegans*. **Josh Russell**, Jon Pierce-Shimomura.

667B

Sexual identity of core neuronal circuitry modulates sex-specific behaviors in *C. elegans*. Renee M. Miller, **Deborah A. Ryan**, Kelli Fagan, Douglas S. Portman.

668C

C. elegans uses distinct molecular mechanisms to respond to thermal impulse stimuli of different amplitudes. Rajarshi Ghosh, Aylia Mohammadi, Leonid Kruglyak, **William S. Ryu**.

669A

Microfluidics approach to study neurodegeneration in a *Caenorhabditis elegans* Parkinson's disease model. **Sangeena Salam**, Pouya Rezaei, P. Ravi Selvanapathy, Bhagwati P. Gupta.

670B

How worms move up and down salt gradients. L. Luo, M. Hendricks, Y. Zhang, **A. Samuel**.

671C

Exploring the Function of TRF-1 in Polycystin-Expressing Sensory Neurons. **Dianaliz Santiago-Martinez**, Maria Gravato-Nobre, Jonathan Hodgkin, Maureen M. Barr.

672A

Regulation of thermosensation by SRTX-1(GPCR) in AFD thermosensory neurons. **Hirofumi Sasakura**, Keita Suzuki, Hiroko Itoh, Ikue Mori.

673B

High alkaline pH sensation in *C. elegans*. **Toshihiro Sassa**, Takashi Murayama, Ichiro Maruyama.

674C

Experience-dependent modulation of the neuronal response in the gustatory circuit. **Hirofumi Sato**, Hirofumi Kunitomo, Shigekazu Oda, Yuichi Iino.

675A

Changes in responsivity of olfactory neurons to odor during olfactory adaptation and recovery in *Caenorhabditis elegans*. **E. Sawatari**, A. Inoue, T. Teramoto, T. Ishihara.

676B

Mapping the neural circuits that function downstream of the sensory rays in *C. elegans* male mating behavior. **Amrita Sherlekar**, Pamela Koo, Xuelin Bian, Robyn Lints.

677C

Notch signaling regulates chemosensation and behavioral adaptation to stress. **Komudi Singh**, Anne C. Hart.

678A

Notch signaling regulates many aspects of quiescence during *C. elegans* lethargus. **Komudi Singh**, Heather L. Bennett, Altar Sorkac, Michael A. Dilorio, Anne C. Hart.

679B

Variation in temperature-dependent behaviours among natural isolates of *Caenorhabditis briggsae*. **Gregory Stegeman**, Jiwon Shin, Nan Lin, Matthew Bueno De Mesquita, Asher Cutter, William Ryu.

680C

Temporal and molecular characterization of short-term associative memory in *C. elegans*. **Geneva M. Stein**, Amanda L. Kauffman, Coleen T. Murphy.

681A

Regulation of behavioral plasticity by systemic temperature perception in *Caenorhabditis elegans*. **Takuma Sugi**, Yukuo Nishida, Ikue Mori.

682B

Bold Text Effects of ionizing radiation on pharyngeal pumping in *Caenorhabditis elegans*. **Michiyo Suzuki**, Tetsuya Sakashita, Yuya Hattori, Toshio Tsuji, Yasuhiko Kobayashi.

683C

Revealing the promiscuous nature of pigment dispersing factor signaling. **Liesbet Temmerman**, Ellen Meelkop, Annelies Bogaerts, Liliane Schoofs, Tom Janssen.

684A

Analysis of molecular mechanisms that integrate sensory perception of nutrient with rhythmic motor output. **Baskaran Thyagarajan**, Keith W. Nehrke.

685B

Ca²⁺-CaM-dependent protein Kinase I is required for short- and long-term mechanosensory habituation. **Tiffany A. Timbers**, Jing Xu, Catharine H. Rankin.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

686C

Role of dopamine in locomotory transitions in *C. elegans*. **S. Topper**, A. Vidal-Gadea, L. Young, A. Gottschalk, J. Pierce-Shimomura.

687A

Molecular mechanism of salt taste. **Oluwatoroti Umuerrri**, Gert Jansen.

688B

Glial regulation of chemosensation. **Sean W. Wallace**, Shai Shaham.

689C

GRK-2 regulates serotonin metabolism and egg-laying behavior in *C. elegans*. **Jianjun Wang**, Jiansong Luo, Dipendra Aryal, William Wetsel, Jeffrey Benovic.

690A

Bending waves during *C. elegans* locomotion are driven by proprioceptive coupling. **Quan Wen**, Elizabeth Hulme, Sway Chen, Xinyu Liu, Marc Gershow, Andrew Leifer, Victoria Butler, Christopher Fang-Yen, William Schafer, George Whitesides, Matthieu Wyart, Dmitri Chklovskii, Aravinthan Samuel.

691B

Acetylcholine-Gated Chloride Channels (ACCs) may be involved in development and behaviour, suggesting a central role for fast inhibitory cholinergic neurotransmission in *C. elegans*. **Claudia M. Wever**, Patrick Janukavicius, Jin-Kyung Chang, Danielle Farrington, Julian Gitelman, Igor Putrenko, Joseph A. Dent.

692C

In vivo structure-function analysis of *C. elegans* GRK-2. **Jordan Wood**, Jeffrey Benovic, Denise Ferkey.

693A

Worms maintain their response to the repulsive odor 2-nonanone during avoidance behavior. **Akiko Yamazoe**, Yuishi Iwasaki, Kotaro Kimura.

694B

Olfactory preference switch depending on odor concentration is mediated by combinatorial change of acting sensory neurons. **K. Yoshida**, T. Hirotsu, T. Tagawa, S. Oda, Y. Iino, T. Ishihara.

695C

Calcium-activated chloride channels (CaCCs) act as ciliary sensory receptors in *C. elegans*. **Yuxia Zhang**, Jinghua Hu.

Development and Evolution: Cell fate patterning (embryonic and postembryonic)

696A

Two homeodomain transcription factors, MLS-2 and CEH-6, promote tube development in the excretory system. **Ishmail Abdus-Saboor**, Craig Stone, John Murray, Meera Sundaram.

697B

The *C. elegans* Wnt Effector TCF/LEF/POP-1 Acts to Protect the Signalled Fate by Restricting β -catenin/WRM-1 to the Nucleus in Stem-Like Seam Cells. **Peter J. Appleford**, Charles Brabin, Alison Woollard.

698C

A focused reverse genetic screen for regulators of Distal Tip Cell specification. **Austin T. Baldwin**, Bryan T. Phillips.

699A

Towards a quantitative understanding of the vulva cell fate patterning network. **Michalis Barkoulas**, Marie-Anne Félix.

700B

gad-1 RNAi Leads to a General Increase in Cell Lifetimes During Development. **Max E. Boeck**, Robert Waterston.

701C

A regulatory network of homeobox genes is required for the function of the *Caenorhabditis elegans* excretory cell. Yong-Guang Tong, Krai Meemon, **Thomas R. Burglin**.

702A

A Genetic Screen for Kinases regulating Body Size with calcineurin in *C. elegans*. **Tae-Woo Choi**, Joohong Ahnn.

703B

Identification of genes that genetically interact with *pha-4*/FoxA to regulate pharynx development. **Youngeun Choi**, Trisha J. Brock, Dustin L. Updike, Susan E. Mango.

704C

Interaction of TGF β regulators, LON-1 and LON-2 with its downstream target, DBL-1. Y. J. Ang, J. C. C. Lee, C. K. H. Wong, M. Mok, **K. L. Chow**.

705A

Geometric modeling of *C. elegans* vulval patterning. **Francis Corson**, Eric Siggia.

706B

Dormant Self-renewal Program of *C. elegans* Early Blastomeres Controlled by Protein Turnover. **Zhuo Du**, Anthony Santella, Zhirong Bao.

707C

Use of Single-molecule FISH To Determine Expression Patterns and Functions of *C. elegans* Lysine Methyltransferases. **Christoph G. Engert**, Alexander van Oudenaarden, Bob Horvitz.

708A

Multiple Routes to Suppressing *aph-1(zu147)* Embryonic Lethality. **Victoria Fang**, Valerie Hale, Caroline Goutte.

709B

Rab-8 functions to mediate excretory cell development in *C. elegans*. **D. A. Fantz**, K. Kornfeld, D. Smith.

710C

Identification and characterization of cell type-specific Wnt pathway-regulated genes in *C. elegans*. **Lakshmi Gorrepati**, David. M. Eisenmann.

711A

Exploring Presenilin Differences in *C. elegans*. **Caitlin Greskovich**, Rebecca Resnick, Valerie Hale, Caroline Goutte.

712B

Environmental flexibility of the genetic network underlying *C. elegans* vulval development. **Stephanie Grimbert**, Christian Braendle.

713C

A role of the LIN-12/Notch signaling pathway in diversifying the non-striated egg-laying muscles in *C. elegans*. **Jared Hale**, Carolyn George, Leila Toulabi, Zachary Via, Nirav Amin, Jun Liu.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

714A

Single-blastomere transcriptomics elucidates the *C. elegans* E-lineage gene regulatory network. **Tamar Hashimshony**, Florian Wagner, Itai Yanai.

715B

Identification of genes that function with *dsh-2* to regulate asymmetric cell division. Kyla Hingwing, Tammy Wong, Jack Chen, **Nancy Hawkins**.

716C

Distinct protein domains regulate stability and patterning of MEX-3 in the *C. elegans* embryo. **Nancy N. Huang**, Craig P. Hunter.

717A

The CEH-20/UNC-62 transcriptional partnership regulate seam cell proliferation by controlling division asymmetry. **Samantha L. Hughes**, Charles Brabin, Alison Woollard.

718B

Geometric Comparisons of the *EMS* Blastomere in *Caenorhabditis elegans* and *C. briggsae*. **Corey R. Johnson**, Scott Thatcher, Timothy D. Walston.

719C

Transcriptional control of dorsal-ventral polarity. **Rossio K. Kersey**, Thomas Brodigan, Tetsu Fukushige, Michael Krause.

720A

Study on localization mechanisms of maternal *mex-3* mRNA. **Hiroyuki Konno**, Koki Noguchi, Yuji Kohara.

721B

Region II of the *C. elegans* Transcription Factor LIN-31: Site-Directed Mutagenesis and Transcription Assay Development. **Sarah Mathes**, Leilani Miller.

722C

Role of PHA-4/FoxA binding in cell fate specification during organogenesis. **Christina K. McPhee**, Susan E. Mango.

723A

ACE-like non-peptidase (acn-1) as a new suppressor of *let-7*. **Chanatip Metheetrairut**, Frank Slack.

724B

Understanding the Role of MAP Kinase Phosphorylation in *C. elegans* Cell Signaling. **Fernando Meza Gutierrez**, Misbah Palla, Leilani Miller.

725C

Mutational and yeast two-hybrid analysis of the *C. elegans* winged-helix transcription factor LIN-31 reveal functionally-distinct domains. Corey Morris, David Dorozquez, Scott Montgomery, E. Lorena Mora-Blanco, Misbah Palla, **Leilani Miller**.

726A

RalGEF (RGL-1) signaling performs dual/antagonistic functions in vulval patterning. **Kimberly B. Monahan**, Tanya P. Zand, Channing J. Der, David J. Reiner.

727B

Automated phenotyping of *Caenorhabditis elegans* embryogenesis at the single cell and cellular group levels. **Julia Moore**, Zhou Du, Anthony Santella, Christian Pohl, Zhirong Bao.

728C

Regulation of Asymmetric Seam Cell Division by the Non-Receptor Tyrosine Kinase, FRK-1, during Post-embryonic Development in *Caenorhabditis elegans*. **Kelsey Moore**, James Bour, Sherri Smith, Aaron P. Putzke.

729A

Genetic analysis of vulval development in *Caenorhabditis briggsae*. **Devika Sharanya P. Premkumar**, Bavithra Thillainathan, Bhagwati P. Gupta.

730B

Screening for Inhibitors of Cellular Reprogramming. **Tulsi Patel**, Baris Tursun, Dylan Rahe, Oliver Hobert.

731C

Components that Transduce Extracellular Matrix Signals Are Required for Developmental Commitment of *C. elegans* Embryonic Progenitor Cells. **Misty R. Riddle**, Nareg J. Djabrayan, Joel H. Rothman.

732A

The chromo-helicase domain protein CHD-7 is a putative regulator of WNT-ligands. **Daniel Roiz Lafuente**, Ivo Rimann, Steffanie Nusser-Stein, Alex Hajnal.

733B

Evolution of embryonic development in nematodes. Jens Schulze, **Einhard Schierenberg**.

734C

Plectus - a stepping stone in embryonic cell lineage evolution of nematodes. Jens Schulze, Jana Uenk, **Einhard Schierenberg**.

735A

The Panacea Consortium: Identification of new Modulators of EGFR/RAS/MAPK and WNT signaling during vulval development. **Tobias Schmid**, Fabienne Largey, Alex Hajnal.

736B

The histone acetylation, methylation, and H2A.z are involved in the maintenance of cell fates in *C. elegans*. **Yukimasa Shibata**, Hitoshi Sawa, Kiyoji Nishiwaki.

737C

The β -catenin HMP-2 functions downstream of Src in parallel with the Wnt pathway in early embryogenesis of *C. elegans*. **Eisuke Sumiyoshi**, Sachiko Takahashi, Hatsue Obata, Asako Sugimoto, Yuji Kohara.

738A

Nhr-67/tailless Functions in the AC-VU Decision, AC Differentiation, and Expression of *lin-12* in the pre-VU Cells. **Tara Tappen**, Lauren Pioppo, Brittany Sanford, Jenny Hall, George McClung, Rachel Summer, Alex Breiding, Sheila Clever, Bruce Wightman.

739B

Quantifying gene expression dynamics of LIN-3/EGF targets during vulva induction. **Jeroen S. van Zon**, Alexander van Oudenaarden.

740C

RNAi screening in *Caenorhabditis elegans* Ras mutant identified *blmp-1* as a putative Ras cooperating tumor suppressor gene. **Nattha Wannissorn**, Andy Fraser.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

741A

Comparing gene expression pattern in the *skn-1* intestinal developmental network in *C. briggsae*, *C. remanei*, and *C. elegans* to gain insights into the dynamical functional roles of orthologous genes. **Allison Wu**, Lawrence Du, Scott Rifkin.

742B

Direct in vivo Cellular Reprogramming Involves Transition Through Discrete, Non-Pluripotent Steps. **S. Zuryn**, J. P. Richard, N. Fischer, V. Pavet, N. Vaucamps, S. Jarriault.

Development and Evolution: Cell death and neurodegeneration

743C

Genome wide RNAi screen to study *uvr1* cell necrosis. **Awani Awani**, Matt Crook, Wendy Hanna-Rose.

744A

Apoptosis-mediated toxicity of water stable carbon nanoparticles in *Caenorhabditis elegans*. **Shin S. Choi**, Yoon J. Cha.

745B

Exploring alternative means to induce axonal injury in *C. elegans* neurons. **Sean Coakley**, Massimo A. Hilliard.

746C

Neuron specific knock-down of *smn-1* causes neuronal degeneration and death. I. Gallotta, P. Bazzicalupo, **E. Di Schiavi**.

747A

Elucidating the genetic and molecular mechanisms underlying *smn-1* synaptic defects. **M. Dimitriadi**, G. Kalloo, A. C. Hart.

748B

vha-12, a catalytic subunit of the V-ATPase, is required for apoptotic corpse clearance. **Glen Ernstrom**, Robby Weimer, David Greenstein, Erik Jorgensen.

749C

Identification of modulators of RNA-dependent toxicity in Myotonic Dystrophy. **Susana M. Garcia**, Guinevere F. Lourenço, Gary B. Ruvkun.

750A

Growth cone guidance receptors modulate mitochondrial morphology and function via a secreted moiety of the VAPB/ALS8 protein, the major sperm protein domain. **S. Han**, H. Tsuda, Y. Yang, J. Vibbert, P. Cottee, C. Haueter, J. Prasain, H. J. Bellen, M. A. Miller.

751B

The Sp1 Family Transcription Factor SPTF-3 Promotes M4 Sister Cell Death through *egl-1* Expression in the M4 Sister Cell. **Takashi Hirose**, Bob Horvitz.

752C

slit-1 Cbl Opposes the Engulfment of Apoptotic Cells. **Michael E. Hurwitz**, Courtney Anderson, Bob Horvitz.

753A

A Screen for Genes Involved in Engulfment-Dependent Cell Death. **Holly L. Johnsen**, H. R. Horvitz.

754B

In vitro and *in vivo* investigation of modulators of hyperactivated ion channel induced necrosis in *C. elegans*. **Shaunak Kamat**, Shrutika Yeola, Wenying Zhang, Monica Driscoll.

755C

Genetic Control of Neurodegeneration by an Evolutionary-conserved Heterotrimeric G Protein Signaling Pathway. **Bwarenaba B. Kautu**, Matthew L. Hicks, Adam J. Harrington, Kim A. Caldwell, Guy A. Caldwell.

756A

An MLL-type H3K4 methyltransferase complex is required for linker cell death. **Maxime J. Kinet**, Shai Shaham.

757B

Specific small heat shock proteins regulate calcium homeostasis in the medial Golgi to protect against necrotic cell death. **Nikos Kourtis**, Nektarios Tavernarakis.

758C

Starvation induces a global translational arrest that triggers germ cell apoptosis. **Laura Láscares**, Carlos G. Silva-García, Tzvetanka D. Dinkova, Rosa E. Navarro.

759A

Secreted VAPB/ALS8 major sperm protein domains regulate mitochondrial fusion and fission machinery localization in body wall muscle. **S. Lee**, M. Miller.

760B

Controlling protease-driven lysosomal dependent "necrotic" cell death and beyond. **Cliff J. Luke**, Mark M. Miedel, Sangeeta R. Bhatia, Nathan J. Graf, Gary A. Silverman.

761C

The Role of Carbonic Anhydrase in Mediating Cell Stress Response following Neuronal Injury. **T. A. Matthews**, G. V. W. Johnson-Voll, K. W. Nehrke.

762A

Improved Alzheimer's Disease Model of A β ₁₋₄₂ toxicity. **Gawain McColl**, Blaine Roberts, Adam Gunn, Tara Pukala, Christine Roberts, Christopher Link, Robert Cherny, Ashley Bush.

763B

Utilization of alternative mRNA forms for CED-4/Apaf-1 during germ cell apoptosis. **J. Kaitlin Morrison**, Vince Contreras, Enhui Hao, Brett D. Keiper.

764C

Role of dynein light chain 1 in apoptosis: Using *C. elegans* as a model system. **Tine H. Møller**, Anders Olsen.

765A

Identification and characterisation of genes essential for axonal maintenance. **Brent Neumann**, Massimo A. Hilliard.

766B

Effects of the *Wld^Δ* mutation on axonal degeneration and regeneration in *C. elegans* neurons. **Annika L. A. Nichols**, Brent Neumann, Massimo A. Hilliard.

767C

Serotonergic blockade prevents age-related neurodegeneration in *C. elegans* model of Alzheimer's disease. **Jonathan T. Pierce-Shimomura**, Ashley Crisp.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

768A

The localization of CED-9/Bcl2 and CED-4/Apaf-1 is not consistent with the accepted model for *C. elegans* apoptosis induction. **Ehsan Pourkarimi**, Sebastian Greiss, Anton Gartner.

769B

Characterizing an uncharacterized protein: F16A11.2, a neuroprotective gene product with a putative role in RNA localization. **Arpita Ray**, Susan M. DeLeon, Kim A. Caldwell, Guy A. Caldwell.

770C

Mild Frataxin suppression reduces fat accumulation, induces autophagy and protects from motility defects in *C. elegans*. **Alfonso Schiavi**, Alessandro Torgovnick, Evgenia Megalou, Nektarios Tavernarakis, Roberto Testi, Natascia Ventura.

771A

The RNA binding protein TIA-1.2 promotes stress-induced germ cell apoptosis and regulates granules assembly in the gonad core. **Carlos Silva**, Jorge Ramírez, Valerie Reinke, Rosa E. Navarro.

772B

gex Complex Genes Are Involved in the Engulfment of Apoptotic Cells. **E. Simionato**, M. E. Hurwitz.

773C

Establishing a RIP-seq method to study the role of RNA-binding proteins in germ cell apoptosis. **Deni Subasic**, Jochen Imig, Marko Jovanovic, Jonathan Hall, Andre Gerber, Michael Hengartner.

774A

Modulation of stroke-like neurodegeneration by cell stress-resistance signaling pathways. **Nazila Tehrani**, John Del Rosario, Moises Domingues, Itzhak Mano.

775B

Clathrin-mediated endocytosis and intracellular trafficking are required for necrotic cell death in *C. elegans*. **Kostoula Troulinaki**, Nektarios Tavernarakis.

776C

Investigation of the neuroprotective role of GIPC in a *C. elegans* model of Parkinson's Disease. **Michelle L. Tucci**, Laura A. Berkowitz, Kim A. Caldwell, Guy A. Caldwell.

777A

Axonal Degeneration in *C. elegans* motor neurons: a model for Motor Neurone Disease. **Nicholas J. Valmas**, Ivan Cáceras, Hang Lu, Massimo A. Hilliard.

778B

Identification and characterization of molecular modulators of methylmercury-induced whole animal and dopamine neuron pathology in *C. elegans*. **Natalia VanDuyn**, Raja Settivari, Gary Sinclair, Richard Nass.

779C

The role of plastin in Spinal Muscular Atrophy. **Melissa Walsh**, Anne Hart.

780A

Caenorhabditis elegans O-GlcNAc cycling mutants alter the proteotoxicity of models of human neurodegenerative disorders. **Peng Wang**, Brooke Lazarus, Michele Forsythe, Dona Love, Michael Krause, John Hanover.

781B

Analysis of cellular toxicity mechanisms of alpha-synuclein in *C. elegans*. **Nora Wender**, Jan Hegermann, Stefan Eimer.

782C

Transgenic *Caenorhabditis elegans* expressing Alzheimer's pathway proteins to produce β -amyloid toxicity. **Michael L. Wood**, Anne Hart.

783A

Identification of genetic modifiers for amyloid-beta toxicity in a *C. elegans* Alzheimer's disease model. **Xiaohui Yan**, Adam Knight, Kim Caldwell, Guy Caldwell.

784B

Dysfunctional LRRK2/p38 signaling in response to ER stress leads to dopaminergic neurodegeneration. **Y. Yuan**, P. Cao, M. Smith, K. Kramp, Y. Huang, X. Zhu, S. Siedlak, N. Hisamoto, K. Matsumoto, M. Hatzoglou, H. Jin, Z. Feng.

785C

A genetic screen for modulators of apoptosis and engulfment in *C. elegans*. **Sheng Zeng**, Michael O. Hengartner.

786A

Role of Nrf2/SKN-1 dependent and ER stress proteins in *C. elegans* models of Parkinson's disease and manganism. Raja Settivari, **Shaoyu Zhou**, Natalia VanDuyn, Jennifer LeVora, Gary Sinclair, Richard Nass.

Development and Evolution: Development timing

787B

How do lin-28 and lin-46 regulate hbl-1? **Jennifer Alaimo**, Kevin Kemper, Bhaskar Vadla, Eric Moss.

788C

Deciphering the role of the tumour suppressor PAR-4/LKB-1 in cell cycle regulation and asymmetric cell division. **Laura Benkemoun**, Julien Burger, Nicolas Chartier, Lionel Pintard, Jean-Claude Labbé.

789A

Temporal regulation of *rnt-1* in seam stem cell divisions by heterochronic *let-7* family miRNAs. Rachael Nimmo, **Toby Braun**, Frank Slack, Alison Woollard.

790B

The *mir-51* family of microRNAs antagonizes multiple microRNA-mediated developmental pathways. **John L. Brenner**, Benedict J. Kemp, Allison L. Abbott.

791C

Examining the kinetics of chromatin modifications associated with dosage compensation onset. **Laura Custer**, Györgyi Csankovszki.

792A

Function of AMPK during the L1 diapause in *C. elegans*. **Emilie Demoinet**, Julie Mantovani, Richard Roy.

793B

C. elegans body size is regulated by TGF- β signalling in multiple tissues. **Aidan Dineen**, Jeb Gaudet.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

794C

A genome-wide RNAi screen for *let-7* suppressors identifies novel players in the heterochronic pathway. **Matyas Ecsedi**, Magdalene Rausch, Helge Grosshans.

795A

Identification of heterochronic genes that suppress over-expression of *mir-48*, a *let-7* family miRNA. **Theresa L. B. Edelman**, Tamar D. Resnick, Sarah Malmquist, Ann E. Rougvie.

796B

WNK-1 negatively regulates formation of diacylglycerol in *C. elegans*. **Takashi Fukuzono**, Kunihiro Matsumoto, Naoki Hisamoto.

797C

Heterochronic genes and Wnt pathway components regulate asymmetric division and cell fate of epidermal stem cells in *C. elegans*. **Omid F. Harandi**, Victor Ambros.

798A

The male tail tip heterochronic regulatory network. **R. Antonio Herrera**, Karin Kiontke, Matthew D. Nelson, Ji-Sup Yang, David H. A. Fitch.

799B

Mechanisms that maintain or re-establish VPC multipotency in dauer larvae. **Xantha Karp**, Iva Greenwald.

800C

Comparative transcriptomics in five *Caenorhabditis* species reveals a unique embryonic milestone. **Michal Levin**, Tamar Hashimshony, Itai Yanai.

801A

The *C. elegans period* homolog *lin-42* regulates developmental timing and molting. **Katherine A. McCulloch**, Angela Barr, Ann E. Rougvie.

802B

ECM Dynamics in the Molting Cycle. **Vijaykumar Meli**, Alison Frand.

803C

Regulation and function of the *let-7*-related miRNA miR-48 in developmental timing. **Tamar D. Resnick**, Brittany Werre, Ann E. Rougvie.

804A

mir-237 is regulated by *lin-14* and functions in early developmental timing. **Mitchell A. Romens**, Benedict J. Kemp, Allison L. Abbott.

805B

A recessive gene controls adaptation to a chemically defined medium in *C. elegans*. **Liusuo Zhang**, L. Rene Garcia.

1251A

The novel non-coding RNA *lep-5* is a heterochronic regulator of male tail tip morphogenesis. **Edward Vuong**, Karin Kiontke, Antonio Herrera, Douglas Portman, David Fitch.

Development and Evolution: Germline and development and sex determination

806C

Translational control of cyclin B by PUF-8 and GLD-1 is essential for germ cell development. **Priti Agarwal**, Rana Mainpal, Kuppuswamy Subramaniam.

807A

Investigating the role of WEE-1.3 in *C. elegans* oocyte maturation. **Anna K. Allen**, Jessica E. Nesmith, Andy Golden.

808B

Phenotypic differences between deletion alleles of the histone demethylase *rbr-2*. **Stacy Alvares**, Ebony Joyner, Shawn Ahmed.

809C

The role of BEC-1 in germ line development in *C. elegans*. **Kristina Ames**, Alicia Meléndez.

810A

A comparative evolutionary model for the study of meiotic mechanisms. **Joshua Bayes**, Abby Dernburg.

811B

Identification and characterization of direct targets of the *Caenorhabditis elegans* global sexual regulator TRA-1 by chromatin immunoprecipitation. **Matthew R. Berkseth**, Kohta Ikegami, Jason D. Lieb, David Zarkower.

812C

The eIF4e-binding protein PQN-45 is required for P granule formation and sperm/oocyte switch. Madhu Sharma, Gregory M. Davis, Hyun-Min Kim, Monica P. Colaiacovo, **Peter R. Boag**.

813A

Implication of microRNA pathway in *C. elegans* germline biogenesis. **Syed Irfan Ahmad Bukhari**, Alejandro Vasquez-Rifo, Monique Zetka, Jean-Yves Masson, Martin J. Simard.

814B

Mutations that Interact with the Tip60 HAT Complex Can Suppress SHE-1. **Xiangmei Chen**, Yiqing Guo, Ronald Ellis.

815C

Loss of ALS-associated protein VAPB/ALS8 increases apoptosis in the germ line. **P. Cottee**, J. Vibbert, S. Han, M. Miller.

816A

The sexually dimorphic germline stem cell niche. **Sarah Crittenden**, Ipsita Mohanti, Dana Byrd, Karla Knobel, Judith Kimble.

817B

Caenorhabditis elegans GLB-12 regulates germline apoptosis levels and vulval development. **S. De Henau**, L. Tilleman, D. Hoogewijs, L. Moens, S. Dewilde, J. R. Vanfleteren, B. P. Braeckman.

818C

PCH-2's Role in Regulating the Synapsis Checkpoint of Meiosis I in *Caenorhabditis elegans*. **Alison J. Deshong**, Needhi Bhalla.

819A

Characterization of new sex determination alleles in *C. briggsae*. **Jill A. Dewar**, Carlos Carvalho, Paul Stothard, David Pilgrim.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

820B

Suppressor of *fog-1(q253)* rescues fertility in hermaphrodites but not in males. **Kristin R. Douglas**, Kimberly L. Butnik.

821C

Analysis of HIS-73, a Sperm Specific Histone H3 Variant, Uncovers a Link between Sperm Signaling and TGF- β Signaling. **T. Matthew Edwards**, Christopher Bean, William G. Kelly.

822A

mel-28 Genetic Interaction Screen Reveals Networks Underlying Germ-line Development in *C. elegans*. **Anita G. Fernandez**, Emily Mis, Neha Kaushik, Matthew Fasullo, Fabio Piano.

823B

IFE-1: A Key Regulator of Germ Cell Protein Synthesis. **Andrew J. Friday**, Jacob Subash, Melissa A. Henderson, Brett D. Keiper.

824C

PUF-8 is an Inhibitor of Germ Line Stem Cell Proliferation. Hilary E. Racher, **Laura R. Gauthier**, Dave D. Hansen.

825A

The MES proteins cooperate to influence gene expression patterns in the *C. elegans* germ line. **Laura Gaydos**, Andreas Rechtsteiner, Coleen Carroll, Wenchao Wang, Susan Strome.

826B

Phenotypic characterization of the tropical hermaphroditic species *Caenorhabditis* sp. 11. **Clotilde Gimond**, Nausicaa Poulet, Alessandra Mauri, Nicolas Callemeyn-Torre, Stephanie Grimbert, Paul Vigne, Celine Ferrari, Christian Braendle.

827C

The role of microtubules in regulating dynamic RNP granules in aging or stressed oocytes. **Kevin T. Gorman**, Tiffany Makowski, Jennifer Schisa.

828A

Loss of a nuclear hormone receptor unravels diet-dependent germline sterility. **Xicotencatl Gracida**, Christian R. Eckmann.

829B

Translational regulation and the control of meiotic maturation. Caroline Spike, Donna Coetzee, **David Greenstein**.

830C

A set of spermiogenesis inhibition genes identified by a suppressor screen of *spe-27*. **Gizelle Hacopian**, Ubaydah Nasri, Craig LaMunyon.

831A

Identifying mechanisms critical for sperm guidance to oocytes. **Hieu D. Hoang**, Johnathan W. Edmonds, J. Prasain, Michael A. Miller.

832B

Protein synthesis factor isoforms are selective for mRNAs that promote meiosis and differentiation in germ cells. Melissa A. Henderson, Vince Contreras, Anren Song, Sara Labela, Nadejda Korneeva, J. Kaitlin Morrison, Andrew J. Friday, Monique Zetka, Robert E. Rhoads, **Brett D. Keiper**.

833C

Elucidating genetic mechanisms by which somatic cAMP signaling regulates MSP-dependent oocyte meiotic maturation. **Seongseop Kim**, J. Amaranath Govindan, David Greenstein.

834A

VHA-19 is essential for trafficking of RME-2 in *Caenorhabditis elegans* oocytes and is important for the osmotic integrity of the embryo. **Alison J. Knight**, Lisa McEwan, Nicholas Johnson, Carolyn Behm.

835B

LET-363/TOR and RSKS-1/S6K promote proper germline development in *C. elegans*. **Dorota Z. Korta**, Simon Tuck, E. Jane Albert Hubbard.

836C

Sex-specific regulation of gonadal development in *C. elegans*. **Mary B. Kroetz**, W. Clay Spencer, Rebecca D. McWhirter, Matthew R. Berkseth, David M. Miller, III, David Zarkower.

837A

A model of germline population dynamics: in-silico analysis and in-vivo validation. Yaki Setty, Diana Dalfó, Dorota Z. Korta, E. Jane Albert Hubbard, **Hillel Kugler**.

838B

Comparative functional analysis of hSTIM1 and *C. elegans* STIM-1. **Rashmi P. Kulkarni**, Raphael Courjaret, Khaled Machaca.

839C

RFP-1, an E3 ubiquitin ligase, is involved in regulating the proliferation vs. differentiation decision in the *C. elegans* germline. **Lindsay Leahul**, Brendan Bakos, Dave Hansen.

840A

Development of a *C. elegans* Spermiogenesis and Sperm Function Protein Interaction Network. **Matthew R. Marcello**, Marina Druzhinina, Gunasekaran Singaravelu, Andrew Singson.

841B

Insulin, Notch, Cyclins and the Regulation of Germline Development. **David Michaelson**, E. Jane Albert Hubbard.

842C

Role of METT-10, a putative methyltransferase, in the proliferation vs meiosis decision. **Ariz Mohd**, Maia Dorsett, Tim Schedl.

843A

FOG-1 activates *fog-3* expression. Dyan Morgan, Johan Jeong, **Daniel Noble**, Judith Kimble.

844B

RNA localization in the germline. **Alexandre Paix**, Geraldine Seydoux.

845C

Robustness and evolvability of sex determination pathway. **Manish Parihar**, Andre Pires da Silva.

846A

RNP granules: insights into their regulation and function. **Joseph R. Patterson**, Megan P. Wood, Jennifer A. Schisa.

847B

A novel role of the RNA helicase VBH-1 during stress. **Daniel Paz-Gomez**, Rosa E. Navarro.

848C

Evolution and phenotypic plasticity of the germline and reproductive system in *Caenorhabditis* nematodes. **Nausicaa Poulet**, Christian Braendle.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

849A

Maintenance of adult proliferative germ cells. **Zhao Qin**, E. Jane Albert Hubbard.

850B

Mapping and Characterization of *Caenorhabditis elegans* Mutant Defective in Sperm Function. **Sina Rahimi**, Gunasekaran Singarevelu, Andrew Singson.

851C

glp-4 encodes the valyl amino-acyl tRNA synthetase VARS-2. **Suchita Rastogi**, Ben Borgo, Paul Fox, Nannette Pazdernik, Elaine Mardis, Yuji Kohara, Jim Havranek, Tim Schedl.

852A

A role for cardiolipin in the gonad development of *Caenorhabditis elegans*. **Taro Sakamoto**, Nagaharu Yokomori, Yukae Otomo, Motoki Ohno, Takao Ioue, Hiroyuki Arai, Yasuhito Nakagawa.

853B

The DEAD box RNA helicase Cr-VBH-1 is a constitutively P granule component in *C. remanei* germ cells and plays an important role on its germline function. **Laura Silvia Salinas Velázquez**, Ari Franco-Cea, Laura Lascarez-Lagunas, Ernesto Maldonado, Rosa E. Navarro.

854C

The tumour suppressor ING-3 regulates the DNA damage-induce apoptosis pathway in *C. elegans*. **Sitar Shah**, Jingjing Luo, JB Rattner, Karl Riabowol, Paul Mains.

855A

SPE-44 functions as an early transcription factor in spermatogenesis. Madhura Kulkarni, Katherine E. Guevel, **Diane C. Shakes**, Harold E. Smith.

856B

Regulation of Hermaphrodite Development by the F-box Protein SHE-1. **Y. Shen**, Ronald E. Ellis.

857C

Two likely GLP-1/Notch targets are essential for germline stem cell maintenance in both larvae and adults. Aaron M. Kershner, **Heaji J. Shin**, Judith Kimble.

858A

Regulation of the trafficking of TRP-3 channel by a novel protein during spermiogenesis in *Caenorhabditis elegans*. **Gunasekaran Singaravelu**, Indrani Chatterjee, Sina Rahimi, Marina Druzhinina, Andrew Singson.

859B

Chemically reprogramming the adult sperm/oocyte fate decision. **Elena P. Sorokin**, Clinton T. Morgan, Judith Kimble.

860C

A peroxiredoxin antioxidant enzyme regulates the timing of hermaphrodite spermatogenesis. **Joanne Stamford**, Christian Eckmann, Elizabeth Veal.

861A

A sperm competition mutant with defects in sperm motility. Daniela Chavez, **Gillian Stanfield**.

862B

Sperm-egg fusion generates a biphasic traveling calcium wave in *C. elegans*. **J. Takayama**, S. Onami.

863C

The conserved PAM-1 aminopeptidase somatically regulates pachytene progression. **Chris Trzepacz**, Craig Mello.

864A

Regulation of RAS/MAPK signaling by PUF-8 and GAP-3 is essential for meiotic progression. **Samir Vaid**, Mohd Ariz, Kuppuswamy Subramaniam.

865B

Detachment of the pharynx in *lim-7(tm674)* mutants occurs embryonically. **Laura G. Vallier**.

866C

Centriole elimination during *C. elegans* oogenesis. **Lukas von Tobel**, Tamara Mikeladze-Dvali, Pierre Gönczy.

867A

Identifying TEG-1 interacting proteins that are involved in germline development. **Chris Wang**, Dave Hansen.

868B

The PP2A phosphatase subunit PPTR-1 is required to stabilize embryonic P granules during mitosis. **Jennifer T. Wang**, Christopher M. Gallo, Geraldine Seydoux.

869C

Assembly of a Membrane-associated Complex Required for the Oocyte-to-embryo Transition. **Yuemeng Wang**, Geraldine Seydoux.

870A

The role of the protein kinase CHK-1 in early germ line development in *C. elegans*. **Ashley B. Williams**, W. Matthew Michael.

871B

GLD-1 binding marks specific mRNA targets for accumulation in oocytes. Claudia Scheckel, Dimos Gaidatzis, **Jane E. Wright**, Rafal Ciosk.

872C

Regulation of P granule stability via PGL proteins. **M. Yonetani**, M. Hanazawa, A. Sugimoto.

873A

Exploring the role of RNP granules in regulating RNA stability. **Mark T. Zeigler**, Breanna Rice, Jennifer Schisa.

Development and Evolution: Evolution

874B

N2-specific differences in behavior, growth, and physiology are explained by a laboratory-derived allele of *npr-1*. **Erik C. Andersen**, Raj Ghosh, Josh S. Bloom, Justin P. Gerke, Leonid Kruglyak.

875C

Exploring the mutational landscape of *Caenorhabditis*. Dee Denver, Larry Wilhelm, Peter Dolan, Dana Howe, K. Gafner, **Charles Baer**.

876A

Proximate and ultimate cumulative effects of temperature on spontaneous mutation in *C. briggsae* and *C. elegans*. Dejerianne Ostrow, Suzanna Lewis, Chikako Matsuba, Matthew Salomon, Laurence Sylvestre, Kerry Regan, Brandon Tabman, Ambuj Upadhyay, **Charles F. Baer**.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

877B

Ray Pattern Variation in *C. elegans*: Mapping a Major-Effect QTL on LGV. **Scott E. Baird**, Daniel Bailey.

878C

A Bias Caused by Ectopic Development Creates Sexually Dimorphic Sperm In Nematodes. **Christopher C. Baldi**, Jeffrey Viviano, Ronald E. Ellis.

879A

Cryptic evolution of transcriptional regulation through changes in *cis* and *trans*. **Antoine Barriere**, Kacy Gordon, Ilya Ruvinsky.

880B

Evolution in viral sensitivity to the Orsay virus in natural *C. elegans* isolates. **Tony B  licard**, Marie-Anne F  lix.

881C

Stochastic influences on physiology and the outcomes of mutation in *C. elegans*. **Maria O. Casanueva**, Ben Lehner.

882A

Removal of selection pressure leads to convergent male behavior in *Caenorhabditis*. **Audrey S. Chang**, Matthew Rockman.

883B

Adaptation and effective recombination in *C. elegans* populations with standing variation. **I. Chelo**, H. Teot  nio.

884C

Identification of *ascr#1* as the female sex pheromone in the free-living nematode *Panagrellus redivivus*. **A. Choe**, A. T. Dossey, T. Chuman, R. Ajredini, D. Kogan, H. Alborn, F. Kaplan, H. Von Reuss, F. Schroeder, A. S. Edison, P. W. Sternberg.

885A

The evolution and genetics of speciation between *C. briggsae* and *C. sp. 9*. **Asher D. Cutter**, Joanna L. Kozłowska.

886B

Natural ecology of *C. elegans* in Germany. Philipp Dirksen, Fabian Peters, Wei Chen, Carola Petersen, **Katja Dierking**, Hinrich Schulenburg.

887C

Ecology of *Caenorhabditis*: sharing of natural habitats by different *Caenorhabditis* species. **Marie-Anne F  lix**, Christian Braendle.

888A

Comparison of early embryogenesis in eight species of *Protorhabditis*. **H  l  ne Fradin**, Karin Kiontke, David H. A. Fitch, Fabio Piano.

889B

Functional genomics of two Antarctic nematodes, *Panagrolaimus davidi* and *Plectus murrayi*. **Hiroshi Kagoshima**, Yuji Kohara.

890C

Natural variation of gonad independent vulva induction among *Pristionchus pacificus* isolates. **Simone Kienle**, Ralf J. Sommer.

891A

DPY-1 plays a conserved role in nematode cuticle formation. Sandrine Jacob, Christian Olendrowitz, Delphine Bernard, Joachim M. Muriel, Charlotte Kenning, Olivier Poupel, Jan Hagermann, Danny Tuckwell, Ralf Sommer, Stefan Eimer, **Bernard Lakowski**.

892B

Spontaneous and UV-induced mutations in a small region of the *C. elegans* genome, the *ben-1* locus. **Cecilia C. Mello**, Andrew Fire.

893C

Comparative proteome analysis of *Caenorhabditis elegans* cultured at 2 different temperatures—20  C and 25  C. **K. Monobe**, Y. Ishido, A. Terasawa, Y. Tohsato, T. Hayano, M. Ito.

894A

Variations in sensitivity to external RNA interference in the *Caenorhabditis* genus. **Isabelle Nuez**, Marie-Anne F  lix.

895B

Effect of Mutation Accumulation Environment on Environmental Variance in Fitness in *Caenorhabditis*. **Rayshard Rogers**, Charles Baer.

896C

Back to Nature: Defining the Microbiota of Wild *C. elegans*. **Buck S. Samuel**, Christian Braendle, Marie-Anne F  lix, Gary Ruvkun.

897A

Experimental test of the consequences of host-parasite coevolution. **Hinrich Schulenburg**, Leila El Masri, David Laehnemann, Patrick Guenther, Nicolaas K. Michiels.

898B

Evolution of Sex-biased Expression in the *Caenorhabditis* genus. **Cristel G. Thomas**, Renhua Li, Ian Korf, Harold E. Smith, Brian Oliver, Eric S. Haag.

899C

Quantitative Proteomic Analysis of 3 Developmental Stages of *Caenorhabditis briggsae* by Using 2D DIGE and iTRAQ. A. Terasawa, **Y. Tohsato**, Y. Ishido, T. Hayano, M. Ito.

900A

Constructing and screening an RNAi Library in *C. briggsae* reveals evolution in phylogenetically young proteins and transcription factors. **Adrian Verster**, Arun Ramani, Sheldon Mckay, Felix Marie-Anne, Andrew Fraser.

901B

Independent evolution of PP1 phosphatases for regulation of diverse sperm motility structures. **Jui-ching Wu**, Aiza Go, Susan Mirosoian, Mark Samson, Thais Cintra, Tammy Wu, Margaret Jow, Rodrigo Estrada, Eric Routman, Diana Chu.

902C

Establishing *C. briggsae* as a Model System for Speciation Research. **Zhongying Zhao**, Stephane Flibotte, Donald Moerman, Robert Waterston.

Gene Regulation and Genomics: Gene expression

903A

Screening for novel regulators of *rnt-1* in stress response. **Soungyub Ahn**, Kiho Lee, Junho Lee.

904B

Identifying genes that interact with APL-1, a Protein Related to Human Amyloid Precursor Protein. **Adanna G. Alexander**, Chris Li.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

905C

Microtubules and fertilization: The MEI-1/katanin mediated cytoskeletal transition from meiosis to mitosis in the developing embryo. **Sarah M. Beard**, Paul Mains.

906A

Identification of transcription start sites and novel transcripts in *C. elegans*. **Ron Chen**, Thomas Down, Julie Ahringer.

907B

Cis-regulating network in the ALA neuron. **Elly S. Chow**, Cheryl Van Buskirk, Paul Sternberg.

908C

Dissecting the role of *ncbp-1/ncbp-2* in determining ray patterns in *C. elegans* males. JHT Wong, **KL Chow**.

909A

The nature of *tbx-2* expression pattern in *C. elegans* male tail. KK Ip, **KL Chow**.

910B

Comparative genomics reveals novel regulatory mechanism for the transcription factor RFX/DAF-19 in *C. elegans*. **Jeffrey S. C. Chu**, Maja Tarailo-Graovac, Jun Wang, Bora Uyar, Domena Tu, Joanne Trinh, Bob Johnsen, David Baillie, Nansheng Chen.

911C

The dynamics of gene expression in early larval development. **Shu Yi Chua**, Hee Sun Shin, Jean Thierry-Mieg, Danielle Thierry-Mieg, David L. Baillie.

912A

Regulation of intestinal fasting induced transcription of *nhr-206* is DAF-16/FOXO dependent. **Ahmed Chughtai**, Jan Novotny, Frantisek Behensky, Zdenek Kostrouch, Marta Kostrouchova.

913B

In vivo Regulation of the Alternative Splicing of the Pro- and Anti-Apoptotic Gene *ced-4*. **Anna Corrionero**, Bob Horvitz.

914C

Regulation of X chromosome transcription in *Caenorhabditis* species. Sarah Albritton, **Sevinc Ercan**.

915A

Chromosome-wide gene regulation and higher-order chromosome structure in *C. elegans* dosage compensation. **C. A. Fassio**, E. Crane, A. Michel, S. Uzawa, B. J. Meyer.

916B

HLH-17 affects dopamine signaling in *C. elegans* through the DOP-1, DOP-2 and DOP-3 receptors. **Chaquettea M. Felton**, Casonya Johnson.

917C

rsr-2, the ortholog of the human spliceosome component SRM300/SRRM2, regulates diverse developmental processes including germline sex determination. **Laura Fontrodona**, Tomás Morán, Montserrat Porta-de-la-Riva, Mònica Díaz, David Aristizábal, Alberto Villanueva, Simó Schwartz Jr., Julián Cerón.

918A

The identification of the functional components of the male-specific CEM neurons. **Lan Fu**, Gus C. M. Chan, King L. Chow.

919B

Transcriptional regulation of pharyngeal gland sub-type expressed genes. **Vikas Ghai**, Jeb Gaudet.

920C

Characterization of specific gene programs regulated by Mediator subunit CDK-8. **Jennifer M. Grants**, Stefan Taubert.

921A

A new model of *C. elegans* embryogenesis with cell contacts and spatio-temporal gene expressions. **Johan Henriksson**, Jürgen Hench, Martin Lippert, Akram Abou-Zied, David Baillie, Thomas R. Bürglin.

922B

Microarray analysis on laser-dissected tail tips identifies genes regulated by *dmd-3* during male tail tip morphogenesis. **R. Antonio Herrera**, Karin Kiontke, D. Adam Mason, Ji-Sup Yang, David H. A. Fitch.

923C

Operon transcriptional complexity: dissection via recombineered fosmid-based reporters. **Nisha Hirani**, Stephen Sturzenbaum, Colin Dolphin.

924A

Temporal control of organogenesis by PHA-4/FoxA. **Hui-Ting Hsu**, Susan Mango.

925B

RNA polymerase III transcribes a defined subset of tRNAs and snoRNAs at the nuclear pore in *C. elegans*. **Kohta Ikegami**, Jason Lieb.

926C

Possible regulation of *bed-3* by *blmp-1*. **Takao Inoue**.

927A

Searching for transcriptional regulators of *C. elegans* proteasome subunits. **CongYu Jin**, YueHong Yang, Akihiro Mori, Yuji Kohara, Xuan Li, Johan Dethlefsen, Johan Henriksson, Keith Blackwell, Thomas Bürglin, Carina I. Holmberg.

928B

The homeobox transcription factors, CEH-14 and TTX-1, regulate expression of *gcy-8* and *gcy-18* in *C. elegans*. **Hiroshi Kagoshima**, Yuji Kohara.

929C

Novel fat-reducing plant extracts as therapeutics in the treatment of obesity using a *C. elegans* model. **Shail Kaushik**, Harsh Bais.

930A

The affects of DNA sequence on chromatin architecture and gene expression. **Colton E. Kempton**, Elliot Winters, Benjamin Jorgensen, Steven M. Johnson.

931B

The overlapping roles of *hlh-1* and *unc-120* in bodywall muscle differentiation. **Steven G. Kuntz**, Brian Williams, Paul Sternberg, Barbara Wold.

932C

FOX-1 family and UNC-75 regulate neuron-specific alternative splicing of the *unc-32* gene. **Hidehito Kuroyanagi**, Masatoshi Hagiwara.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

933A

SMG-1 may possess dual mRNA surveillance functions . **Luciana Leopold**, Matt Eckler, Yan Liu, Channing Der, David Reiner, Shawn Ahmed.

934B

Regulation of calreticulin gene expression by sumoylation in *C. elegans*. **Yun-Ki Lim**, Sunkyoung Lee, Joohong Ahnn, Do Han Kim.

935C

Identification of transcription factors regulating *lin-39* expression. **Wan-Ju Liu**, David Eisenmann.

936A

Analysis of cell fate from single-cell gene expression profiles in *C. elegans*. **Xiao Liu**, Sarah Aerni, Fuhui Long, Hanchuan Peng, John Murray, Serafim Batzoglou, Robert Waterston, Gene Myers, Stuart Kim.

937B

Identification of evolutionary conserved regulators of dietary restriction using the "Ortho2ExpressMatrix". **Andreas Ludewig**, Thomas Meinel, Frank Doering.

938C

In vivo analysis of splicing factor genes in regulating alternative splicing in *C. elegans*. Yanling Teng, Xiaoyang Gao, **Long Ma**.

939A

Analysis of temporal expression data of *C. elegans* early embryo. **T. Maeshiro**, S. Nakayama, K. Monobe, M. Ito.

940B

Structure-function analysis of MDT-15, a conserved transcriptional co-regulator required for metabolic homeostasis. **Allan Mah**, Ada Kwong, Stefan Taubert.

941C

A 3'UTR clone library of the nematode *C. elegans*: a resource for 3'UTR biology. **M. Mangone**, J. M. Lucas, M. R. Gutwein, D. Mecnas, K. C. Gunsalus, F. Piano.

942A

Factors Affecting the Mean, Variance and Predictive Power of a Lifespan-Predicting Biomarker. **Alexander R. Mendenhall**, Pat Tedesco, James R. Cypser, Larry Taylor, Anita Lowe, Roger Brent, Thomas E. Johnson.

943B

GEI-8 is a transcription co-repressor orthologous to NCoR/SMRT with developmental functions in *C. elegans*. **Pavol Mikolas**, Frantisek Behensky, Vladimir Saudek, Michael Krause, Zdenek Kostrouch, Marta Kostrouchova.

944C

Biochemical characterization of canonical and variant *C. elegans* nucleosomes. **Ahmad N. Nabhan**, Margaret Jow, Diana Chu, Geeta Narlikar.

945A

AlkB8 (C14B1.10) regulates metabolism in *C. elegans*. **Johana Nakielna**, Petr Yilma, Vladimir Saudek, Marta Kostrouchova, Zdenek Kostrouch.

946B

Defining target genes of the transcriptional repressor protein CTBP-1. **Hannah R. Nicholas**, Surya Setiyaputra, Melinda S.-Y. Tan, Chu-Kong Liu, Aaron Lun, Sashi Kant, Merlin Crossley, Joel Mackay.

947C

Characterization of the aminophospholipid translocase TAT-1 and phosphatidylserine asymmetry in plasma membrane. **Y. Niu**, Q. Yuan, N. Xia, D. Xue.

948A

Single-blastomere transcriptome profiling reveals asymmetric segregation of maternal transcripts in the first embryonic division. **Erin A. Osborne**, Jason D. Lieb.

949B

Global and phenotype-specific suppressors of LIN-35/pRb synthetic phenotypes. **Stanley R. Polley**, David Fay.

950C

Functional characterization of *swsn-2.1*, a SWI/SNF component and genetic interactor of *lin-35* Retinoblastoma. Iris Ertl, **Montserrat Porta-de-la-Riva**, Laura Fontrodona, Eva Gómez-Orte, Lucía Suárez-López, Verónica Dávalos, Simó Schwartz Jr., Juan Cabello, Julián Cerón.

951A

Oxygen-sensitive gene expression in *C. elegans*. Dingxia Feng, **Jo A. Powell-Coffman**.

952B

C. elegans TBX-2 is a SUMOylation dependent transcriptional repressor. Lynn Clary, **Tom Ronan**, Peter Okkema.

953C

Slimming Nematodes with Herbal Medicine: From pseudo-science to reality. **Soudabeh Sahmeddini**, Peter Hylands, Stephen Sturzenbaum.

954A

Regulation of gene expression by DBL-1/BMP. Jianghua Yin, Sushma Teegala, Edlira Yzeiraj, **Cathy Savage-Dunn**.

955B

Comparison of Dosage Compensation Between *Caenorhabditis briggsae* and *Caenorhabditis elegans*. **Caitlin M. Schartner**, Te-Wen Lo, Barbara J. Meyer.

956C

Carnosinase 1 (PES-9) and Carnosinase 2 (Y71H2AM.11) - two conserved dipeptidases are involved in regulation of embryonic development in *C. elegans*. **Katerina Sebkova**, Petr Yilma, David Kostrouch, Zdenek Kostrouch, Marta Kostrouchova.

957A

Characterizing the paternal RNA contribution of *C. elegans* sperm. **M. Shorrock**, T. Wu, D. S. Chu.

958B

Characterization of HRG-7, a novel protease involved in *C. elegans* heme homeostasis. **Jason Sinclair**, Iqbal Hamza.

959C

Transcriptional regulation of ciliary genes in *C. elegans*. J. Burghoorn, BP Piasecki, KE Jeppsson, F. Crona, S. Sahlin, P. Phirke, **P. Swoboda**.

960A

Asymmetric regulation of the homeobox gene *ceh-5* in early embryogenesis of *C. elegans*. **Lois Tang**, Konstantin Cesnulevicius, Jürgen Hench, Daria Shlyueva, Akram Abou-Zied, Thomas Bürglin.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

961B

An integrated view of the organization of transcription factor binding sites in the *C. elegans* genome. **Florian Wagner**, Itai Yanai.

962C

scla-1 Encodes a Nonreceptor Tyrosine Kinase Required for Antipsychotic Drug-induced Developmental Delay and Lethality in *C. elegans*. **X. Wang**, L. M. Hao, B. M. Cohen, E. A. Buttner.

963A

Linking dosage compensation complex binding to chromosome-wide gene regulation in *C. elegans*. **Bayly Wheeler**, Barbara Meyer.

964B

The REF-1 Protein, HLH-29, Functions in the Somatic Gonad of Wild-Type *C. elegans*. **Ana M. White**, Casonya Johnson.

965C

Promoter Analysis of the GATA type transcription factor *elt-2*. **Tobias Wiesenfahrt**, Janette Berg, James McGhee.

966A

Identification and characterization of protein phosphatases that regulate TGF β signaling in *C. elegans*. **S. Xiong**, C. Savage-Dunn.

967B

Repression of transgene expression by the Q/P-rich nuclear protein PQE-1. **Koji Yamada**, Jun-ichi Tsuchiya, Yuichi Iino.

968C

Identification of critical neurons for APL-1 expression in *C. elegans*. **Pei Zhao**, Collin Ewald, Chris Li.

969A

Identifying Regulatory Elements Controlling Spatial And Temporal Expression of *hlh-29* in *C. elegans*. **Huihui Zhu**, Casonya Johnson.

Gene Regulation and Genomics: RNA interference and small RNAs

970B

Multi-platform sequencing identifies novel mirtron with an embryonic lethal phenotype in *Caenorhabditis elegans*. **Rina Ahmed**, Funda Sar, Zisong Chang, Kristin Gunsalus, Erik Miska, Christoph Dieterich.

971C

RNA-binding Protein GLD-1 Genetically Interacts with Multiple miRNA Pathways in *C. elegans*. **Alper Akay**, Ashley Craig, Nicolas Lehrbach, Gyorgy Hutvagner, Eric Miska, Anton Gartner.

972A

Rab-7 can modulate microRNA activity in *C. elegans*. Zhiji Ren, **Victor R. Ambros**.

973B

RNAi-promoting Zinc Finger Protein, ZFP-1, is an essential factor required for chromatin integrity in *C. elegans*. **Daphne Anastasiades**, Germano Cecere, Morten Jensen, Jason Lieb, Alla Grishok.

974C

In situ hybridization analysis of *let-7* microRNA. **Yoshiki Andachi**, Yuji Kohara.

975A

rde-4 is epistatic to *rde-4*. **Stephen A. Banse**, Craig P. Hunter.

976B

A function for *mir-34* in gonad morphogenesis. **Samantha Burke**, Molly Hammell, Victor Ambros.

977C

A Conserved Motif Affecting Nucleosome Occupancy is Required for 21U-RNA Production in *C. elegans*. **Germano Cecere**, Grace Zheng, Katherine Klymko, Andres Mansisidor, Alla Grishok.

978A

RACK-1 acts in *let-7*-mediated heterochronic development of *Caenorhabditis elegans*. **Shih-Peng Chan**, Frank Slack.

979B

A Genome-wide analysis of genetic interactions in early embryogenesis in *C. elegans*. **P. G. Cipriani**, E. Munariz, A. White, HL. Kao, J. Young, K. Erickson, S. Guzman, J. Lucas, K. C. Gunsalus, F. Piano.

980C

Yeast One-Hybrid Screen to Identify Factors Required for piRNA Biogenesis in *C. elegans*. **Amanda Day**, John Kim.

981A

Cel-bantam miRNA family regulates TGF- β Sma/Mab pathway. **Maria Pilar de Lucas**, Encarnación Lozano.

982B

Germline expression, inheritance, and genomic characteristics of *Caenorhabditis elegans* 21U-RNAs. **Mallory Freeberg**, John Kim.

983C

Single-worm RNA-seq as a tool for following epigenetic silencing. **Weifeng Gu**, Ahmed Ahmed Elewa, Craig Mello.

984A

Nuclear RNAi mediates off-target gene silencing. **Shouhong Guang**, Kirk Burkhardt, Virginia Lamb, Scott Kennedy.

985B

Casein kinase 2 (KIN-3/KIN-10) regulates microRNA activity in *C. elegans*. **Ting Han**, Vishal Khivansara, James Moresco, John Yates, John Kim.

986C

Regulation of *mir-34* expression by insulin signaling pathway in *C. elegans*. **M. Isik**, E. Berezikov.

987A

miRNA regulation of stress responses. **Konstantinos Kagias**, Roger Pocock.

988B

Variable Replication of a Flock House Virus Transgene in *Caenorhabditis* Natural Isolates. **EE Large**, G. Broitman-Maduro, SW Ding, M. Maduro.

989C

Genetic identification of post-transcriptional modulators of microRNAs. **Katherine McJunkin**, Victor Ambros.

990A

Analysis of miR-35 stability at the embryo-larval transition in *C. elegans*. **Kenneth J. Murfitt**, Javier Armisen-Garrido, Nicholas J. Lehrbach, Eric A. Miska.

991B

Characterization of Transposon Silencing Pathways. **Carolyn M. Phillips**, Gary B. Ruvkun.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.
Full abstracts are available online at www.celegans.org.

992C

TDP-1, the *C. elegans* ortholog of ALS-associated protein TDP-43, modulates RNA editing and RNAi. **Tassa K. Saldi**, Christine M. Roberts, Peter E. A. Ash, Leonard Petrucelli, Christopher D. Link.

993A

RNAi screen to identify new genes and pathways regulating PKD-2 ciliary localization and function. **Bahareh Shانهsaz**, Cory Patrick, Juan Wang, Maureen Barr.

994B

The mevalonate pathway has a role in microRNA repression of target genes. **Zhen Shi**, Gary Ruvkun.

995C

Sensitized Backgrounds Reveal Critical Roles for microRNA Families. **Elizabeth J. Thatcher**, Victor Ambros.

996A

Piwi proteins and piRNAs: targets, targeting requirements and pathway analysis. **E.-M. Weick**, L. D. Goldstein, M. P. Bagijn, A. Sapetschnig, E. A. Miska.

997B

Repression of germline RNAi pathways in somatic cells by multiple synMuv B chromatin complexes. **Xiaoyun Wu**, Zhen Shi, Mingxue Cui, Min Han, Gary Ruvkun.

998C

The RDE-10/RDE-11 complex is required for RNAi-induced mRNA turnover in *C. elegans*. **Huan Yang**, Ho Yi Mak.

999A

A Role for Systemic RNAi in antiviral defense in *C. elegans*. **Jing Zhong**, Gao Zhihuan, Morris Maduro, Ding Shou-wei.

1000B

An integrated approach for in vivo miRNA regulation studies in *C. elegans*. **Ilyass Zniber**, Marie Bothorel, Léo Guignard, Denis Dupuy.

Gene Regulation and Genomics: Genomics

1001C

Towards a unique gateway for predicting genetic interactions in *C. elegans*. **Benjamin Boucher**, Anna Y. Lee, Michael Hallett, Sarah Jenna.

1002A

Essentially *C. elegans*: A step towards defining the Essentialome of the Worm. **Jeffrey S. C. Chu**, Bob Johnsen, Domena Tu, Steven Jones, Marco Marra, David Baillie, Ann Rose.

1003B

WormBase Gene Sets and Sequence Curation -. **Paul Davis**, Tamberlyn Bieri, Kevin Howe, William Nash, Philip Ozersky, Gary Williams, John Spieth, The WormBase Consortium.

1004C

Building better gene and orthology predictions across ten *Caenorhabditis* genomes. **Olivia Gardner**, Ana Rodrigues, Yufeng Zhai, Gerard Manning.

1005A

Investigating the roles of a worm HP1 homolog during embryogenesis. **Jacob Garrigues**, Thea Egelhofer, Susan Strome.

1006B

Identification of new DNA targets of nuclear envelope proteins in *C. elegans* using the DamID technique. **Cristina Gonzalez-Aguilera**, Peter Askjaer.

1007C

Links between histone modifications and splicing. **Moritz S. Herrmann**, Paulina Kolasinska-Zwierz, Julie Ahringer.

1008A

Quantitative epistasis map of genes regulating sex ratio. **Marta K. Labocha**, Wenshan Luo, Boanerges Aleman-Meza, Weiwei Zhong.

1009B

A transcription factor specific RNAi screen to identify regulators of intestinal gene expression. **Lesley T. MacNeil**, H. Efsun Arda, A. J. Marian Walhout.

1010C

Characterization of the Transcriptome in L1 Arrest and Recovery with High Throughput Sequencing. **Colin Maxwell**, Igor Antoshechkin, Nicole Kurhanewicz, Jason Belsky, Ryan Baugh.

1011A

Analysis of mutation patterns in *C. elegans* strains with DNA repair deficiencies. **Bettina Meier**, Peter Campbell, Anton Gartner.

1012B

Estimation of gene regulatory networks of *C. elegans* early embryo. **A. Okano**, K. Monobe, S. Nakayama, M. Ito, T. Maeshiro.

1013C

Uncovering cryptic genetic variation for *C. elegans* embryogenesis. **Annalise Paaby**, Amelia White, Kris Gunsalus, Fabio Piano, Matt Rockman.

1014A

Unique mono-nucleosome occupancy on the *Caenorhabditis* sex chromosome. **Christine G. Preston**, Yvonne Fondufe-Mittendorf, Jonathan Widom, Barbara J. Meyer.

1015B

Whole-genome analysis of alternative splicing in *C. elegans*. **Arun Ramani**, John Calarco, Qun Pan, Sepand Mavandadi, Ying Wang, Andrew Nelson, Leo Lee, Quaid Morris, Benjamin Blencowe, Mei Zhen, Andrew Fraser.

1016C

The *C. elegans* transcriptome. **Valerie Reinke**, Brent Ewing, Mark Gerstein, Phil Green, S. Henz, Amber High, LaDeana Hillier, Masaomi Kato, J. Leng, Michael MacCoss, Gennifer Merrihew, David M. Miller, III, Gunnar Ratsch, Rebecca Robilotto, Frank J. Slack, W. Clay Spencer, Pnina Strasbourger, Owen Thompson, Guilin Wang, Georg Zeller, Robert H. Waterston.

1017A

Evolution of a Transcriptional Program: Tracking the Heat Shock Response Across Phyla. **Ana P. Rodrigues**, Gerard Manning.

1018B

Wormfood Genomics: *E. Coli* Determinants of *C. elegans*' Fitness. **Buck S. Samuel**, Tim Durfee, Holli Rowedder, Chris Carr, Justine Melo, Jeremy Glasner, Sean Sykes, Sarah Young, Carsten Russ, Guy Plunkett, Chad Nusbaum, Gary Ruvkun.

1019C

An alternative analysis pipeline for mutation identification by next-generation sequencing. **Harold E. Smith**, Michael W. Krause.

1020A

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

High Occupancy Target (HOT) regions in *C. elegans*. **Eric Van Nostrand**, Stuart Kim, C. elegans modENCODE consortium.

1021B

Loss-of-Function genomic variations in wild *Caenorhabditis elegans*. **Ismael A. Vergara**, Maja Tarailo-Graovac, Jun Wang, Nansheng Chen.

1022C

A systematic examination of the effects of natural variation on perturbed phenotypes in *Caenorhabditis elegans*. **Victoria Vu**, Arun Ramani, Tunggal Chuluunbaatar, Hong Na, Andrew Fraser.

Cell Biology: Cell polarity and the intracellular trafficking

1023A

Tissue-specific identification of polarity protein complexes. Selma Waijers, Javier Muñoz, Albert Heck, **Mike Boxem**.

1024B

Sperm Mitochondria are Associated with Ubiquitinated Vesicles After Fertilization. Connie Hajjar, Andy Golden, **Lynn Boyd**.

1025C

Isolation of novel molecules that regulate specialized ciliary morphologies. **Andrea Brear**, Alexander van der Linden, Piali Sengupta.

1026A

Identification of novel proteins involved in the regulation of IFT. **Joost Broekhuis**, Weng Yee Leong, Gert Jansen.

1027B

The GMAP210 homologue SQL-1 modulates Intraflagellar Transport in *C. elegans*. Suzanne Rademakers, **Joost Broekhuis**, Martijn Dekkers, Jan Burghoorn, Gert Jansen.

1028C

EXC Proteins Regulate Early Endosome Trafficking to Maintain Apical Surface in Narrow Tubules of *C. elegans*. Brendan Mattingly, Kelly Grussendorf, Elinor Brown, **Matthew Buechner**.

1029A

Identification of RhoGEFs that activate CDC-42 during radial polarization of the early *C. elegans* embryo. **Emily Chan**, Jeremy Nance.

1030B

Functional Analysis of the AP-3 Clathrin-associated Adaptor Complex in *Caenorhabditis elegans*. **Carlos Chih-Hsiung Chen**, Anbing Shi, Donglei Zhang, Zhiyong Bai, Peter J. Schweinsberg, Lucy Mingchih Lee, Barth D. Grant, Christopher Rongo.

1031C

JIP3/UNC-16 has an UNC-101 dependent role in synaptic vesicle biogenesis. **Bikash C. Choudhary**, Jitendra Kumar, Takashi Fukuzono, Li Chun, Kunihiro Matsumoto, Naoki Hisamoto, Sandhya P. Koushika.

1032A

The Role of Intracellular Trafficking in Modulating Ciliary Structure and Function in *C. elegans*. **David B. Doroquez**, Anique Olivier-Mason, Ali Sarkeshik, John R. Yates III, Piali Sengupta.

1033B

Isolation and Characterization of *tat-1* suppressors. Xin Li, **Hongwei Du**, Baohui Chen, Xiaochen Wang.

1034C

qx42 affects lysosome function and embryonic development in *C. elegans*. Bin Liu, **Hongwei Du**, Xiaochen Wang.

1035A

An in vivo screen of localization and trafficking regulators of LET-23 EGFR. **Juan M. Escobar Restrepo**, Christina J. Herrmann, Langouet M., Hajnal A.

1036B

PAR proteins regulate the localization of LET-99 during asymmetric division. Jui-Ching Wu, **Eugenel B. Espiritu**, Leslie S. Rose.

1037C

Intracellular trafficking of the type I and type II TGF β receptors, SMA-6 and DAF-4, in *C. elegans*. **Ryan Gleason**, Adenrele Akintobi, Barth Grant, Richard Padgett.

1038A

The EXC-1 GTPase Is Required for Maintenance of Tubule Shape in the Excretory Canals. **Kelly Grussendorf**, Amanda Riss, Matthew Buechner.

1039B

Molecular characterization of TGF- β regulation by multiple intracellular vesicle trafficking processes in *C. elegans*. Katherine Beifuss, **Tina Gumienny**.

1040C

Regulation of the RAB-2 GTPase involved in Dense-Core Vesicle Maturation. **Mandy Hannemann**, Stefan Eimer.

1041A

Investigating the function of the GLO-1 Rab GTPase in lysosome-related organelle biogenesis. Hannah Somhegyi, Thomas Curtin, Brian King, Travis Walton, **Greg J. Hermann**.

1042B

GLO-2 is a nematode specific factor functioning in gut granule biogenesis. Daniel Saxton, Emily Scavarda, Allison M. Weis, Becca Salesky, Laura Thomas, Kaila Warren, Alec Barret, **Greg J. Hermann**.

1043C

Zygotic expression of *par-1* suggests multiple functions. **Daryl D. Hurd**.

1044A

Intracellular PLA₁ and acyltransferase, which are involved in *C. elegans* stem cell divisions, determine the *sn*-1 fatty acyl chain of phosphatidylinositol. **Rieko Imae**, Takao Inoue, Masako Kimura, Eriko Kage-Nakadai, Shohei Mitani, Hiroyuki Arai.

1045B

Possible role of *pak-1*/Pak and *ced-10*/Rac in Wnt/Ror signaling. Kah Yee Goh, Natalie Ng, Thilo Hagen, **Takao Inoue**.

1046C

Characterization of the exocyst in *C. elegans*. **Yaming Jiu**, Jussi Jääntti.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

1047A

Physiological roles of ESCRT complexes in *Caenorhabditis elegans*. **Dong-Wan Kim**, Hyun Sung, Donghyuk Shin, Haihong Shen, Joohong Ahnn, Sun-Kyung Lee, Sangho Lee.

1048B

Centrosome centration is driven by dynein-dependent movement of intracellular organelles along astral microtubules in *C. elegans* early embryos. **Kenji Kimura**, Akatsuki Kimura.

1049C

Tubulin polyglutamylation in the sensory cilia is flexibly regulated in response to the environmental stresses. **Y. Kimura**, O. I. Kaplan, S. Hameed, H. Kunitomo, Y. Iino, O. E. Blacque, M. Setou.

1050A

Centrosome positioning and the establishment of the anterior-posterior axis in the one-cell embryo. **Zachary Klock**, Jessica Meeker, Margaret Williams, Liza Agayeva, George Pellegrino, Eva Jaeger, Rebecca Lyczak.

1051B

Identifying mechanisms of contact-mediated cell polarization. **Diana Klompstra**, Dorian Anderson, Jeremy Nance.

1052C

Dissection of the LATS kinase pathway in *C. elegans*. **Hanee Lee**, Junsu Kang, Junho Lee.

1053A

SUMOylation of ARL-13 regulates ciliogenesis and cilia sensory function. **Yujie Li**, Jinghua Hu.

1054B

Coordination of Arls in cilia. **Yujie Li**, Qing Wei, Yuxia Zhang, Jinghua Hu.

1055C

Tracing Endocytosis in the Nematode Gut. **Willisa Liou**, Barth Grant, Ayesha Hossain, David Hall.

1056A

Identification of novel factors antagonizing endocytic organelle fusion in *C. elegans*. **Kai Liu**, Zhiyang Gao, Xiaojuan Sun.

1057B

Identification of a New Gene Required for the Proper Localization of PKD-2 to Cilia. **Julie Maguire**, Maureen Barr.

1058C

Putative De-ubiquitylating Enzymes MATH-33 and USP-47 are Required for Polarity Establishment in *C. elegans*. **Richard J. McCloskey**, Kenneth Kemphues.

1059A

FGF signaling cooperates with WNT signaling in *C. elegans* vulval cell lineage polarity. **Paul Minor**, Anand Asthagiri, Paul Sternberg.

1060B

C. elegans rootletin homolog, *che-10*, is required for intraflagellar transport and cilia maintenance. **Swetha Mohan**, Michel Leroux.

1061C

Immunoglobulin domain containing isoforms of UNC-89 (obscurin) are required for myofilament organization and calcium signaling in *Caenorhabditis elegans*. Patrick Spooner, M. Berenice Duran, Jennifer Bonner, Guy Benian, **Kenneth Norman**.

1062A

Role of the cullin CUL-5 in the regulation of polarity and asymmetric division. **Anne Pacquelet**, Grégoire Michaux.

1063B

Molecular and genetic characterization of suppressor of *bec-1* lethality (*sub*) mutants. **Nicholas J. Palmisano**, Alicia Meléndez.

1064C

Arp2/3 dependent branched actin regulates intracellular trafficking to maintain apical junctions. **Falshruti B. Patel**, Yelena Bernadskaya, Martha Soto.

1065A

Identification and characterization of novel Wnt signaling pathway components. **Woon Cheng Poh**, Yanqing Shen, Takao Inoue.

1066B

Endocytic regulation of LET-23 EGFR signaling during vulva induction. Olga Skorobogata, **Christian E. Rocheleau**.

1067C

Novel players of cell polarity and asymmetric cell division in *C. elegans* identified through analysis of a polarity genetic network. **Josana Rodriguez**, Bruno Fievet, Julie Ahringer.

1068A

Characterizing the adrenomedullin homologue in *C. elegans*. **Beatriz Sáenz-Narciso**, Eva Gómez-Orte, Alfredo Martínez, Juan Cabello.

1069B

Dynein-dependent microtubule sliding is not sufficient for anaphase spindle-pulling force in the *C. elegans* embryo. Eva Gusnowski, **Martin Srayko**.

1070C

Spindle asymmetry produced by Wnt signaling regulates asymmetric nuclear localization of β -catenin. **Kenji Sugioka**, Kota Mizumoto, Hitoshi Sawa.

1071A

Identification of SORF-1 (suppressor of organelle fusion) as a negative regulator of endocytic organelle fusion in *C. elegans*. **Xiaojuan Sun**, Zhiyang Gao, Jing Xu, Yudong Jing, Xuezhao Liu, Hui Xiao, Chonglin Yang.

1072B

Arf GTPases antagonize the Frizzled/Planar cell polarity pathway to regulate the asymmetric cell division of the Q.p neuroblast. **Jerome Teuliere**, Aakanksha Singhvi, Shaun Cordes, Karla Talavera, Gian Garriga.

1073C

Sensory input modulates ciliary receptor localization and IFT activity. **Juan Wang**, Natalia Morsci, Maureen Barr.

1074A

Regulation of Rab GTPase-mediated endosomal trafficking by TBC-2. **Xiaolin A. Wang**, Farhad Karbassi, Marc-André Sylvain, Krittika Bhende, Anna Chavlovski, Christian E. Rocheleau.

1075B

The BBSome regulates IFT particles turn-around at cilia tip. **Qing Wei**, Yuxia Zhang, Yujie Li, Jinghua Hu.

1076C

A novel basal body protein DYF-17 controls the ciliary entry of DYF-11 and IFT assembly. **Qing Wei**, Jinghua Hu.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

1077A

Unraveling the VAP MSP secretion mechanism. **Jessica L. Winek**, Michael Miller.

1078B

Cis- and *trans*-regulatory mechanisms of ciliary targeting in a subset of chemosensory neurons in *C. elegans*. **Martin Wojtyniak**, Piali Sengupta.

1079C

LET-99, a novel G protein regulator for asymmetric division. Dae Hwi Park, **Anna Ye**, Lesilee S. Rose.

1080A

RAB-6 and the Retromer Complex Regulate Glutamate Receptor Recycling Through A Retrograde Transport Pathway. **Donglei Zhang**, Nora R. Isack, Doreen R. Glodowski, Barth D. Grant, Christopher Rongo.

1081B

qx193 affects lysosome dynamics and motility in *C. elegans*. **Wei Zou**, Baohui Chen, Bin Liu, Xiaochen Wang.

Cell Biology: Morphogenesis, migration, cytoskeleton

1082C

In vivo analysis of epithelial cell polarization. **Stephen Armenti**, Jeremy Nance.

1083A

Two parts of *Caenorhabditis elegans* glypican LON-2 negatively regulate a BMP-like pathway and require membrane proximity. **S. Bageshwar**, T. Gumienny.

1084B

CPNA-1, a novel copine domain containing protein, links the integrin associated protein PAT-6 (Actopaxin) to the giant protein UNC-89 (obscurin) in *C. elegans* muscle. Ge Xiong, Adam D. Warner, Hiroshi Qadota, Donald G. Moerman, **Guy M. Benian**.

1085C

The giant protein UNC-89 (obscurin) interacts with CUL-1: implications for ubiquitin mediated protein degradation in muscle. M. Berenice Duran, Hiroshi Qadota, Kristy J. Wilson, **Guy M. Benian**.

1086A

Morphogenesis of the *C. elegans* intestine depends on the ability of Arp2/3 to promote membrane association of apical proteins. **Yelena B. Bernadskaya**, Falshruti Patel, Hiao-Ting Hsu, Martha Soto.

1087B

Control of Distal Tip Cell Migration in *C. elegans* through the Interaction of Dishevelled Proteins and CACN-1. **Lauren Byrnes**, Melissa LaBonty, Erin Cram.

1088C

TOCA-1 and actin polymerization contribute to P-cell nuclear migration. **Yu-Tai Chang**, Daniel A. Starr.

1089A

The Anal Depressor Undergoes Morphological and Functional Changes during *Caenorhabditis elegans* Male Development. **Xin Chen**.

1090B

An E-Cadherin-mediated hitchhiking mechanism for *C. elegans* germ cell internalization during gastrulation. **Daisuke Chihara**, Jeremy Nance.

1091C

The minus-end actin capping protein, TMD-1/tropomodulin, regulates the morphology of the intestine and excretory cell. Corey Hoffman, Clarence Ling, Gary Mantione, Nicole Vissicelli, Vincent Cannataro, Thomas Gallagher, **Elisabeth (Abbi) Cox**.

1092A

Roles for anillin (*ani-1*) in regulating cell shape changes during *C. elegans* embryogenesis. **Nellie Fotopoulos**, Neetha Makil, Yun Chen, Alisa Piekny.

1093B

Isolation, characterization, and whole genome sequencing of a mutant defective for the pharyngeal g1a gland sub-type. **Vikas Ghai**, Stephane Flibotte, Jeb Gaudet.

1094C

Investigations into the collective movement of substrate neurons and epidermis during ventral enclosure. **Claudiu Giurumescu**, Andrew Chisholm.

1095A

Searching for interactors and substrates of the PXN-2 extracellular matrix peroxidase. **Jennifer R. Gotenstein**, Andrew D. Chisholm.

1096B

Mechanisms Involved in Regulating the Activity and Localization of a Microtubule-depolymerizing Kinesin in the One-cell Stage *C. elegans* Embryo. **X. Han**, K. Cheung, M. Srayko.

1097C

DPY-24 regulates the timing of DTC dorsal turn. **Tsai-Fang Huang**, Chun-Yi Cho, Jheng-Wei Huang, Yi-Chun Wu.

1098A

A *C. elegans* pathology model of Leucine-rich repeat kinase 2 (LRRK2). **Xu Huang**, Enrico Schmidt, Ralf Baumeister.

1099B

The *C. elegans* spectraplakins VAB-10 regulates nuclear migration by linking actin and microtubule cytoskeleton in the gonadal distal tip cells. **H.-S. Kim**, R. Murakami, S. Quintin, M. Mori, K. Tamai, K. Ohkura, M. Labouesse, H. Sakamoto, K. Nishiwaki.

1100C

Investigating the role of CACN-1 in the Canonical Wnt Signaling Pathway. **Melissa LaBonty**, Mouna Ibourk, Erin Cram.

1101A

The F-Bar and Rho GTPase-activating protein RGA-7 controls CDC-42 activity during embryonic elongation in *Caenorhabditis elegans*. **Germain Lacoste-Caron**, Sarah Jenna, Emmanuel Martin.

1102B

A genetic screen to elucidate the role of a PP2A phosphatase required for mitotic spindle assembly. **Karen I. Lange**, Martin Srayko.

1103C

An enhancer screen to identify genes that function with UNC-6/UNC-40 (netrin) to promote anchor cell invasion. **Lauren R. Lilley**, Quiyi Chi, David R. Sherwood.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

1104A

Molecular characterization of the *C. elegans* anillin isoforms. **Michael Loloian**, Alisa Piekny.

1105B

The roles of *rhgf-2*/Rho GEF and *fhod-1*/formin in regulating the actin cytoskeleton during embryonic elongation. Simon K. Rocheleau, Christopher A. Vanneste, Eko Raharjo, Robert Steven, David Pruyne, **Paul E. Mains**.

1106C

Extracellular leucine-rich repeat proteins and maintenance of epithelial integrity. **Vincent P. Mancuso**, Jean Parry, Luke Storer, Corey Poggioli, David Hall, Meera Sundaram.

1107A

The PCP pathway components vang-1 and prkl-1 are required for the Wnt dependent migration of the Q neuroblasts descendants. **Remco A. Mentink**, Hendrik C. Korswagen.

1108B

madd-2 regulates anchor cell invasion. **Matthias Morf**, Ivo Rimann, Stefanie Nusser, Mariam Alexander, Peter Roy, Alex Hajnal.

1109C

Infection-induced plasticity of hindgut development. **Frederick A. Partridge**, Jonathan Hodgkin.

1110A

A possible role for TRY-2/plasminogen during *C. elegans* embryonic development. **Melissa Ponce**, Austin Howard, Saeideh Sarraf-Mamouri, Martin Hudson.

1111B

The *C. elegans* Hailey-Hailey disease homolog *pmr-1* is essential for embryonic development. **Vida Praitis**, Adityarup Chakravorty, Charlotte Feddersen, Dae Gon Ha, Leah Imlay, Sarah Kniss, Walter Liszewski, Michael Miller, Juliet Mushi, Angela Schacht, Tyson Stock, Alexander Sullivan-Wilson, Zelealem Yilma, Lensa Yohannes, Jeffrey Simske.

1112C

PAT-4 (ILK) regulates the binding of UNC-112 (Kindlin) to PAT-3 (β -integrin) in *C. elegans*. **Hiroshi Qadota**, Donald G. Moerman, Guy M. Benian.

1113A

Microtubules in embryonic morphogenesis. **Sophie Quintin**, Ambre Bender, Michel Labouesse.

1114B

Somatic gonad precursor migration in *C. elegans*. **Monica R. Rohrschneider**, Jeremy Nance.

1115C

The role of extracellular ZP-domain protein DYF-7 in body size development. **Robbie D. Schultz**, Tina L. Gumienny.

1116A

UNC-83 and UNC-84 bridge the nuclear envelope to move nuclei. **Daniel A. Starr**, Erin Tapley, Heidi Fridolfsson, Marina Meyerzon, Nina Ly.

1117B

The Rac-GEF UNC-73/TRIO Mediates Multiple and Genetically Distinct Pathways to regulate excretory cell migration. Nancy Marcus, **Eve Stringham**.

1118C

The Nm23-H1/H2 homologue NDK-1 activates Ras/MAPK signaling interacting with kinase scaffold of Ras during vulval development in *C. elegans*. **Krisztina Takacs-Vellai**, Neda Masoudi, Luca Fancsalszky, Ehsan Pourkarimi, Tibor Vellai, Anton Gartner, Anita Alexa, Attila Remenyi, Anil Mehta.

1119A

Mutations Affecting Cessation of Gonadal Leader Cell Migration in *C. elegans*. **Kikuchi Tetsuhiro**, Shibata Yukimasa, Nishiwaki Kiyoji.

1120B

GSK-3 Regulates Left/Right Symmetry Breaking. **Michael G. Tiongson**, Christian Pohl, Zhirong Bao.

1121C

Caenorhabditis elegans RHGF-2 is an essential RHO-1 specific RhoGEF that binds to the multi-PDZ domain scaffold protein MPZ-1. **Thuy Tran**, Li Lin, Shuang Hu, Todd Cramer, Vera Hapiak, Richard Komuniecki, Robert Steven.

1122A

SUMO proteases in *C. elegans*. **A. Tsur**, L. Broday.

1123B

VAB-3 and VAB-5 are involved in mediating embryonic anterior muscle development. **Ryan D. Viveiros**, Robert Barstead, Donald G. Moerman.

1124C

Analysis of UNC-6/netrin's effectors during *C. elegans* anchor cell invasion. **Zheng Wang**, David Sherwood.

1125A

Screening for essential muscle genes and synthetic lethality using high-throughput RNAi. **Adam D. Warner**, Teresa Rogalski, Aruna Somasiri, Iasha Chaudhry, Donald G. Moerman.

1126B

Essential Functions of IFA-2 Domains in *C. elegans* Fibrous Organelles. **Kyle C. Williams**, John Plenefisch.

1127C

Novel regulation of the CUL-3/MEL-26 protein degradation pathway by the giant protein UNC-89. **Kristy J. Wilson**, Hiroshi Qadota, Paul E. Mains, Guy M. Benian.

1128A

Analysis of immunogenic proteins in *C. elegans* (IV). **A. Yamakawa**, M. Ushiro, T. Tanaka, J. Fukumoto, A. Tamura.

Cell Biology: Cell division and chromosome dynamics

1129B

Analysis of Protease-Dead Separase: Development of a New Method to Study Dominant-Negative Transgenes. **Joshua N. Bembenek**.

1130C

Breaking It Down: Investigating Synaptonemal Complex Disassembly In *C. elegans* Using RNAi. **Heather M. Brockway**, Sarit Smolikove.

1131A

Cytosolic Aminopeptidase P (APP-1): a possible role in meiotic progression in *Caenorhabditis elegans*. Hannah Craig, Enrique Martinez-Perez, **Darren Brooks**, R. Elwyn Isaac.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

1132B

Distinct Roles for the Kinesins BMK-1 and KLP-18 in Bipolar *C. elegans* Oocyte Meiotic Spindle Assembly. Valerie R. Osterberg, Meredith H. Price, **Sara N. Christensen**, Bruce A. Bowerman.

1133C

A member of the DOG-1 family is essential for normal cell division. **George Chung**, Ann Rose.

1134A

GSP-3 and GSP-4 are required for sperm meiotic chromosome segregation in *C. elegans*. **Thais Godoy Cintra**, Jui-Ching Wu, Aiza Go, Diana Chu.

1135B

FBF-mediated repression of the Cip/Kip cell cycle inhibitor CKI-2 promotes self-renewal of *C. elegans* germline stem cells. Irene Kalchauer, Brian Farley, Sandra Pauli, Sean Ryder, **Rafal Ciosk**.

1136C

A screen for *C. elegans* oocyte meiotic spindle-defective mutants. **Amy Connolly**, John Yochem, Josh Lowry, Bruce Bowerman.

1137A

Characterization of the role of TLK-1 in kinetochore assembly in *C. elegans*. **Jessica M. De Orbata**, Tokiko Furuta, Jill M. Schumacher.

1138B

Identifying the role of the Tousled-like kinase during the cell cycle. **Jason R. Ford**, Tokiko Furuta, Henry Adams, Jill M. Schumacher.

1139C

Asymmetric chromosome behavior during oocyte meiosis. **Christina M. Glazier**, Abby F. Dernburg.

1140A

A Polo-like kinase coordinates meiotic chromosome dynamics. **Nicola C. Harper**, Regina Rillo, Sara Jover-Gil, Needhi Bhalla, Abby F. Dernburg.

1141B

CRL2^{ZYG-11} and cyclin B degradation. **Cassandra S. Heighington**, Edward T. Kipreos.

1142C

SEP-1 and CED-3 regulate apoptosis and separation of sister chromatids in *C. elegans*. **Pan-Young Jeong**, Kumar Ashish, Pradeep M. Joshi, Joel H. Rothman.

1143A

Genetic and molecular investigation of the Fanconi Anemia pathway in *C. elegans*. **Martin R. Jones**, Ann M. Rose.

1144B

Local meiotic recombination rate variation in *Caenorhabditis elegans*. **Taniya Kaur**, Matthew Rockman.

1145C

ZTF-8 is required for DNA double-strand break repair and DNA damage response in the germline in coordination with the 9-1-1 DNA damage checkpoint. **Hyun-Min Kim**, Monica Colaiacovo.

1146A

Investigating the role of Aurora kinases during meiotic prophase in *C. elegans*. **Y. Kim**, A. Dernburg.

1147B

Determining Whether Autosomes and the X Chromosome have Distinct Genetic Requirements for Synapsis Checkpoint Activation in *C. elegans*. **Piero Lamelza**, Needhi Bhalla.

1148C

Spindle assembly checkpoint plays a role in DNA-damage-induced cell cycle arrest in *C. elegans* male germline. **Kate Lawrence**.

1149A

SPD-1-centralspindlin interaction is critical for maintaining the mechanical integrity of the central spindle against cortical pulling forces. **K.-Y. Lee**, M. Mishima.

1150B

β pat-3 integrin is involved in regulation of CKI-1. Shingo Kihira, Eunjeong Yu, Jessica Cunningham, **Myeongwoo Lee**.

1151C

Condensin-mediated chromosome architecture and crossover regulation. **Teresa W. Lee**, Barbara J. Meyer.

1152A

A Genetic Screen for Temperature-Sensitive, Embryonic Lethal Mutations in *C. elegans*. **Josh Lowry**, John Yochem, Amy Connolly, Bruce Bowerman.

1153B

him-5 functions in crossover control and DNA Damage Repair. **Olivia McGovern**, Kristie Jolliffe, Philip Meneely, Brent Derry, Judith Yanowitz.

1154C

Novel Protein SPE-7 is Required for Meiotic Chromosome Segregation and Fibrous Body Assembly. **Kari Messina**, Marc Presler, Diane C. Shakes.

1155A

Identification and characterization of new nuclear envelope proteins. **Adela Morales-Martinez**, Cristina Ayuso, Peter Askjaer.

1156B

Identification and functional analysis of histone demethylase activity in response to UV-induced DNA damage in *Caenorhabditis elegans*. **Toshia Myers**, Alexandra Avram, Lisa Sacini.

1157C

ZHP-3 is a ubiquitin E3 ligase with multiple roles in meiosis. **Cate Randall Paschal**, Christian Nelson, Needhi Bhalla.

1158A

Role of SPD-3 in Pairing and Synapsis of Meiotic Chromosomes. **Regina Rillo**, Abby Dernburg.

1159B

Quantitative analysis of chromosome dynamics during *C. elegans* meiosis. **O. Rog**, D. J. Wynne, A. F. Dernburg.

1160C

A novel gene promoting meiotic double-strand break formation in *C. elegans*. **Simona Rosu**, Anne Villeneuve.

1162B

Characterizing the meiotic role of protein phosphatase 4. **Aya Sato**, Fumio Motegi, Asako Sugimoto, Peter Carlton.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**. Full abstracts are available online at www.celegans.org.

1163C

Insulin signalling functions as somatic DNA damage checkpoint during development. Michael Müller, Maria Ermolaeva, Peter Frommolt, Sebastian Greiss, Jennifer Schneider, **Bjoern Schumacher**.

1164A

Regulation of Meiotic Double-Strand Break Formation in *C. elegans*. **Ericca Stamper**, Abby Dernburg.

1165B

The *C. elegans* adenomatous polyposis coli tumor suppressor homolog APR-1 prevents chromosomal instability by regulating centrosome duplication. **Attila Stetak**, Erika Froehli-Hoier, Alex Hajnal.

1166C

PKC-3 aPKC phosphorylates LIN-5 NuMA to position the mitotic spindle during asymmetric division. Matilde Galli, Javier Muñoz, Vincent Portegijs, Mike Boxem, Albert Heck, **Sander van den Heuvel**.

1167A

Purification of intact germline nuclei: Towards a high-resolution spatiotemporal map of meiotic chromatin in *C. elegans*. **Christina M. Whittle**, Abby F. Dernburg.

1168B

CDC-48/p97 is required for meiotic chromosome segregation in *C. elegans*. Yohei Sasagawa, Teru Ogura, **Kunitoshi Yamanaka**.

1169C

A mutation in *cya-1*, which encodes the *C. elegans* Cyclin A homolog, specifically affects the division of the NSM neuroblast. **Bo Yan**, Barbara Conrad.

1170A

Illuminating the Formation and Regulation of Meiotic Crossovers with GFP:COXA-1. **Karl Zawadzki**, Rayka Yokoo, Anne Villeneuve.

1171B

HAL-2 promotes homologous pairing during *C. elegans* meiosis by antagonizing inhibitory effects of SC proteins. **Weibin Zhang**, A. J. MacQueen, N. Miley, M. Zastrow, A. M. Villeneuve.

Methods and Technology: Genetics

1172C

Mapping the PKD-2 localization defective mutant *cil-2(my2)*. **Deanna Michele De Vore**, Juan Wang, Karla Knobel.

1173A

A new system for neuron-specific RNAi and its application to studying the function of essential genes in mature GABA neurons. **Christopher Firnhaber**, Marc Hammarlund.

1174B

MosSCI: Improved efficiency and new insertion sites. **C. Frøkjær-Jensen**, MW Davis, M. Ailion, EM Jorgensen.

1175C

Development of three automated quantitative platforms for RNAi phenotyping. **Andrew G. Fraser**, Arun Ramani, Tungalag Chuluunbaatar, Hong Na.

1176A

MosSCI-biotic: neomycin resistance gene as a co-insertion marker for *Mos1*-mediated single-copy insertion (*MosSCI*). **R. Giordano-Santini**, D. Tu, R. Johnsen, D. Baillie, D. Dupuy.

1177B

Construction of Arrayed Toxicology Reporter Panels using Transcript-activated Fluorescent Reporters in Transgenic Nematodes. **Miluka Gunaratna**, John Manfredi, Christopher Hopkins.

1178C

A systematic screen for secreted proteins using a synthetic lethal approach. **Samantha N. Hartin**, Vi Leitenberger, Martin L. Hudson, Brian D. Ackley.

1179A

Low-copy integration of transgenes by TMP/UV methods. **Eriko Kage-Nakadai**, Hiroyuki Kobuna, Osamu Funatsu, Muneyoshi Ootori, Keiko Gengyo-Ando, Sawako Yoshina, Sayaka Hori, Shohei Mitani.

1180B

Simple and rapid single nucleotide polymorphism (SNP) mapping method in *C. elegans* without the use of restriction fragment length polymorphisms (RFLP) analysis - made it possible by real-time PCR and high-resolution melting curve analysis (HRM). **Claudia Litterst**, Luis Ugozzoli.

1181C

RAD mapping and genomic interval pulldown sequencing for rapid mutation identification. **Sean O'Rourke**, Doug Turnbull, Nick Stiffler, John Yochem, Amy Connelly, Josh Lowry, Michael Miller, Eric Johnson, Bruce Bowerman.

1182A

An altered method of feeding RNAi that knocks down multiple genes simultaneously in the nematode *Caenorhabditis elegans*. **Yukari Omichi**, Kenji Gouda, Yohei Matsunaga, Takashi Iwasaki, Tsuyoshi Kawano.

1183B

Incorporating Unnatural Amino Acids in *C. elegans*. **Angela Parrish**, Xingyu She, Zheng Xiang, Irene Coin, Andrew Dillin, Lei Wang.

1184C

A Three-pronged Method Employing *Caenorhabditis elegans* for Large Scale Screening of Potential Pharmacological Agents against Alzheimer's Disease. **Shreesh Raj Sammi**, Supinder Kaur, Pooja Jadia, Aamir Nazir.

1185A

Update on the use of drug selection in nematodes. **Jennifer I. Semple**, Ben Lehner.

1186B

High throughput identification of mutations affecting aggregation using a novel Illumina sequencing analysis pipeline. **Katherine P. Weber**, Felix Baier, Subhajyoti De, Mario de Bono.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

Methods and Technology: Imaging

1187C

Computer automated forward-genetic screening using sub-cellular fluorescent reporters. **Matthew M. Crane**, Peri T. Kurshan, George J. Wang, Jeffrey N. Stirman, Kang Shen, Hang Lu.

1188A

Automated sub-cellular imaging for drug screening in *C. elegans*. **Francesca Farina**, Betty Peignelin, Rémi Vernet, Clément Meiller, Frédéric Parmentier, Christian Néri.

1189B

High-resolution *in vivo* Ca²⁺ imaging of neuromuscular system in *Caenorhabditis elegans*. **K. Gengyo-Ando**, A. Usami, Y. Nagamura, Y. Yoshida, N. Matsuki, Y. Ikegaya, J. Nakai.

1190C

Endrov - an open source framework for image processing and analysis. **Johan Henriksson**, Jürgen Hench, Thomas R. Bürglin.

1191A

In vivo calcium imaging of the pharyngeal muscles in freely moving animals. **I. Kotera**, L. Su, S. Wong, K. Truong, H. Suzuki.

1192B

The Metal Biology of *C. elegans*. **Gawain McColl**, Simon James, Blaine Roberts, Martin de Jonge, Robert Cherny, Ashley Bush.

1193C

The GLOWorm repository and GLOWormJ: a system for distribution and analysis of multidimensional embryological images. **William A. Mohler**, Ion Moraru, Ariel B. Isaacson, Frank Morgan, Dan Vasilescu, Jeffrey Dutton, Glenn Duzy.

1194A

Investigation of Low-cost Fluorescence Microscopy. **Andy Papp**, Chris Aldrich, David Perry.

1195B

Characterizing development by lineage tracing. **Julia L. Richards**, Joshua Burdick, Travis Walton, Elicia Preston, John Murray.

1196C

Subcellular *in vivo* time-lapse imaging and optical manipulation of *C. elegans* in standard multiwell plates. **Christopher Rohde**, Mehmet Fatih Yanik.

1197A

Cell lineaging for single cell, high throughput analysis. **Anthony Santella**, Zhirong Bao.

1198B

Development of a High Throughput Infrared Detection Method for Toxicity and Pharmacological Testing in *C. elegans*. Dario R. Bichara, **Sergio H. Simonetta**.

1199C

Addition of the genetically encoded, red-shifted Ca²⁺ sensor RCaMP to the *C. elegans* optogenetic toolbox. **Sebastian Wabnig**, Jasper Akerboom, Jeffrey Stirman, Hang Lu, Loren Looger, Alexander Gottschalk.

1200A

Automated alignment of TEM image stacks to simplify anatomical reconstruction. Greg Hood, **Arthur Wetzel**, Meng Xu, David Hall, Scott Emmons.

1201B

Rapid and accurate phenotyping of embryonic lethality via image analysis of *C. elegans* developmental stages from high-throughput image data. **Amelia G. White**, Huey-Ling Kao, Patricia G. Cipriani, Eliana Munarriz, Annalise Paaby, Davi Geiger, Eduardo Sontag, Kristin C. Gunsalus, Fabio Piano.

Methods and Technology: Gene expression profiling and ChIP

1202C

Cell type-specific profiling of the transcriptome in *C. elegans*. **Meenakshi K. Doma**, Igor Antoshechkin, Paul Sternberg.

1203A

A method for purifying nuclei from different tissues. **Florian A. Steiner**, James R. Priess, Steven Henikoff.

1204B

An assessment of the quality of histone-modification antibodies. Thea Egelhofer, Aki Minoda, Sarit Klugman, Kyungjoon Lee, Paulina Kolasinska-Zwierz, Julie Ahringer Lab, Mitzi Kuroda Lab, Sarah Elgin Lab, Mark Perry Lab, Vincenzo Pirrotta Lab, Bing Ren Lab, **Susan Strome**, Peter Park Lab, Gary Karpen Lab, R. David Hawkins, Jason Lieb.

Methods and Technology: Proteomics and metabolomics

1205C

Revising the DAF-12 ligand biosynthetic pathway in *C. elegans*: A comprehensive NMR-based approach. **Neelanjan Bose**, Parag Mahanti, Axel Bethke, Joshua Judkins, Joshua Wollam, Adam Antebi, Patrick Hu, Frank Schroeder.

1206A

Optimising metabolic profiling approaches towards an improved understanding of metabolism during development and aging in *C. elegans*. **Florian M. Geier**, Gabriel Valbuena, Sarah K. Davies, Jake G. Bundy, Armand M. Leroi.

1207B

Connecting genotype with metabolite in *C. elegans*: 2D-NMR based metabolomics uncovers small molecules dependent on peroxisomal beta-oxidation via DAF-22. **Yevgeniy Izrayelit**, Steven Robinette, Arthur Edison, Frank Schroeder.

1208C

Second generation synthesis and bioactivity of novel endogenous ligands of the nuclear hormone receptor DAF-12. **Joshua C. Judkins**, Neelanjan Bose, Parag Mahanti, Jacob Hoffman, Frank Schroeder.

1209A

SILAN - an Effective Method for Quantitative Proteomics in *C. elegans*. **M. Larence**, A. Bailly, A. Gartner, A. I. Lamond.

1210B

Measuring Protein Abundance across Developmental Stages of *C. elegans* via Molecular Weight Fractionation and High-Resolution Mass Spectrometry. **Gennifer E. Merrihew**, Giana Angelo, Michael J. MacCoss.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

1211C

Searching for DAF-16 partners. **A. Nazari Daftari**, Y. Wang, R. Baumeister.

1212A

Comprehensive analysis of *C. elegans*' ascarosides, a modular library of small molecule signals. **Stephan von Reuss**, Jagan Srinivasan, Neelanjana Bose, Paul Sternberg, Frank Schroeder.

1213B

Proteomic profiling dietary restriction pathways with 13C-labeled *Caenorhabditis elegans*. **Y. Yuan**, C. Kadiyala, T. Ching, S. Saha, H. Xu, K. Kramp, R. Ewing, A. Hsu, M. Miyagi, Z. Feng.

Methods and Technology: Databases and programs

1214C

A Website to Annotate SNP Data. John Rummage, Kenneth G. Miller, **Robert J. Barstead**.

1215A

The Virtual Worm: A Three-Dimensional Model of the Anatomy of *Caenorhabditis elegans* at Cellular Resolution. **Christian A. Grove**, Paul W. Sternberg.

1216B

Hey, you, get ON our cloud: easy private installations of WormBase through cloud computing. **Todd W. Harris**.

1217C

New and Improved: WormImage 2.0 and WormAtlas Mobile. **L. A. Herndon**, Z. F. Altun, C. A. Wolkow, K. Fisher, C. Crocker, T. Stephney, M. Xu, D. H. Hall.

1218A

Synthesizing Biological Theories. Cory Plock, Andy Roberts, **Hillel Kugler**.

1219B

The Biogemix knowledge base project: cross-species and network-based data integration for Huntington's disease research. François-Xavier Lejeune, Lilia Mesrob, Frederic Parmentier, Cédric Bicep, Jean-Philippe Vert, **Christian Neri**.

1220C

OrthoList, a compendium of *C. elegans* genes with human orthologs. **Daniel Shaye**, Iva Greenwald.

Methods and Technology: Microfluidics and neural methods

1221A

Exploiting Simple Geometries in Microfluidic Chips to Orient *C. elegans* for Rapid Visual Screens. **Ivan Cáceres**, Nick Valmas, Massimo Hilliard, Hang Lu.

1222B

Effects of electrical stimulation on the ASH chemosensory neuron in *Caenorhabditis elegans*. **Trushal V. Chokshi**, Nikos Chronis.

1223C

Red-shifted optical excitation with a *Chlamydomonas* / *Volvox* hybrid Channelrhodopsin. **Karen Erbguth**, Matthias Prigge, Franziska Schneider, Jeffrey N. Stirman, Hang Lu, Peter Hegemann, Alexander Gottschalk.

1224A

Large-scale *in vivo* laser neurosurgery for discovery of small-molecule enhancers of regeneration. **Cody L. Gilleland**, Christopher B. Rohde, Chrystanthi Samara, Stephanie Norton, Stephen J. Haggarty, Mehmet Fatih Yanik.

1225B

Microfabricated device for acute drug treatment in the early *C. elegans* embryos. **Alex Groisman**, Ana Carvalho, Sara Olson, Edgar Gutierrez, Kelly Zhang, Lisa Noble, Arshad Desai, Karen Oegema.

1226C

Microfluidic vacuum actuated trap for gentle immobilization and high-resolution microscopy of *C. elegans* across developmental stages. **Edgar Gutierrez**, Rebecca Green, Karen Oegema, Alex Groisman.

1227A

Design of a *C. elegans* sorting microchip based on structure dependent swimming behavior. **Bicheng Han**, Daeyeon Kim, Jennifer H. Shin.

1228B

A multi-worm optogenetic system. **Yuya Kawazoe**, Hiromu Yawo, Kotaro Kimura.

1229C

A simple microfluidic device for long-term *in vivo* imaging of mitochondrial dynamics in *C. elegans*. Sudip Mondal, **Sandhya Koushika**.

1230A

A 96-well plated based liquid phase *C. elegans* behavioral quantification system. **Maohua Zheng**, Olga Gorelenkova, Zhaoyang Feng.

Poster Session Listings

Poster board number is in **bold** above the title. See page 9 for presentation schedule. Presenting author is noted in **bold**.

Full abstracts are available online at www.celegans.org.

Methods and Technology: Other nematodes

1231B

Nicotine exposure response in *Caenorhabditis elegans*: a model for evaluating smoking cessation agents. Danny Tudor, Aaron Behm, David Montgomerie, Chad Ahia, Patrick Yasukawa, Supakit Wongwiwatthanakut, Anthony Otsuka, **Leng Chee Chang**.

1232C

Identification of a New Ascaroside, Female Attracting Pheromone in *Panagrellus redivivus*. **Tatsuji Chuman**, Ramadan Ajredini, Hans Alborn, Andrea Choe, Stephan von Reuss, Fatma Kaplan, Frank C. Schroeder, Paul W. Sternberg, Arthur S. Edison.

1233A

The Characterization of Enhanced Environmental RNAi Mutants in *Pristionchus pacificus*. **Jessica Cinkornpumin**, Jeffrey Shibata, Maryn Cook, Neomal Muthumala, Ray Hong.

1234B

Mass Spectrometric Imaging and Behavioral Assays of *Pristionchus pacificus*. **Chaevien S. Clendinen**, Ramadan Ajredini, Robert Menger, Ghulam Khan, Richard Yost, Arthur S. Edison.

1235C

Classification and population analyses of soil nematodes by using an improved barcode-sequencing method. **Toshihiko Eki**, Erika Miyazaki, Shoko Yoshimitsu, Hisashi Morise.

1236A

Update: Progress made toward clinical use of the *Bacillus thuringiensis* (Bt) Cry5B protein as an anthelmintic. **Brian L. Ellis**, Yan Hu, Ying Liu, Raffi Aroian.

1237B

Crystal structure and function of novel nematocidal *Bacillus thuringiensis* Cry5B. Hui Fan, **Yan Hu**, Alan Kelleher, Raffi Aroian, Partho Ghosh.

1238C

Exploring the Biological Targets of a Novel Class of Stilbenoid Compounds with Anthelmintic Activity. **J. A. Miskowski**, O. Awoyinka, M. Gross, A. Monte.

1239A

A can of worms - challenges and strategies for next generation nematode genomics. **Michael Paulini**.

1240B

Unveiling the unique biology of nematodes living in a cold methane seep on the ocean floor and their symbiosis with chemosynthetic bacteria. **Amir Sapir**, Adler R. Dillman, Manuel Mundo-Ocampo, James G. Baldwin, Victoria J. Orphan, Paul W. Sternberg.

Academic Teaching

1241C

Characterizing wild nematode isolates in an undergraduate research lab. **Robin L. Hill**.

1242A

Application of medium-throughput mutagenesis techniques in the molecular laboratory environment. **Jonathan E. Karpel**, J. Cole Rasch.

1243B

A writing intensive *Caenorhabditis elegans* laboratory exercise for undergraduates examining oxidative stress and antioxidants. Taylor Bell, Justine Betzu, Loreal Brown, Marissa Fontana, Christopher Frymoyer, Christina Hamilton, Amy Hartl, Lauren King, Amanda March, Caitlyn McLarnon, Lauren Meeley, Kathleen Murley, Katherine Murphy, Matthew Pall, Rabiul Ryan, Erin Slaunwhite, **Rebecca E. Kohn**.

1244C

Problem-solving and project-assisted learning of genetics, molecular biology and biological pathways in the study of Protein Kinase C in *C. elegans*. **Marianne Land**.

1245A

Using Nematodes for Discovery Based Learning. **Candace C. LaRue**, Pamela Padilla.

1246B

Student Projects using *C. elegans* to Investigate Animal Physiology. **Tim H. Lindblom**.

1247C

Using *C. elegans* as a model to assay bacterial pathogenesis in an undergraduate research survey course. **Edith M. Myers**, June H. Middleton.

1248A

Combining old fashioned gene mapping and new fangled genetic analysis in an upperlevel Genetics course. **Maureen A. Peters**, Katherine Cullen.

1249B

Using *C. elegans* to teach transmission genetics in a large introductory biology lab. Penny L. Sadler, **Diane C. Shakes**.

1250C

Preparing Undergraduates to Work at the Intersection of Biology and Mathematics. **Timothy D. Walston**, Barbara Kramer, Jason Miller.

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

A

A., Hajnal, 1035A
 Aballay, Alejandro, 151, 422C
 Abbott, Allison L., 790B, 804A
 Abbott, L. F., 549A
 Abdus-Saboor, Ishmail, 43*, 696A*
 Abou-Zied, Akram, 921A, 960A
 Abraham, Linu S., 510A*
 Abraham, Nessy, 183
 Abutbul, Inbal, 48
 Ackerman, D., 217B
 Ackley, Brian, 520B
 Ackley, Brian D., 1178C
 Adams, Henry, 1138B
 Adenle, Ademola A., 106
 Adilov, Bakhtiyor, 245C
 Aebi, Markus, 420A
 Aerni, Sarah, 936A
 Agarwal, Priti, 806C*
 Agayeva, Liza, 1050A
 Aguirre-Chen, Cristina, 431C*
 Ahia, Chad, 1231B
 Ahier, A., 42*
 Ahlawat, Shikha, 169
 Ahmed, Rina, 970B*
 Ahmed, Shawn, 121, 206, 330A, 808B, 933A
 Ahmed Elewa, Ahmed, 983C
 Ahn, Byungchan, 213A*, 265B, 309A
 Ahn, Soungyub, 903A*
 Ahn, Sung Hee, 64*
 Ahnn, Joohong, 280B, 366A, 632C, 633A, 702A, 934B, 1047A
 Ahringer, Julie, 185, 192, 906A, 1007C, 1067C
 Ahringer Lab, Julie, 1204B
 Ailion, M., 1174B
 Ailion, Michael, 28, 100*, 127
 Ajredini, R., 884C
 Ajredini, Ramadan, 419C, 641C, 1232C, 1234B
 Akamine, T., 617C
 Akasaka, Mari, 613B
 Akay, Alper, 971C*
 Akerboom, Jasper, 1199C
 Akintobi, Adenrele, 1037C
 Alaimo, Jennifer, 787B*
 Alaimo, Joseph, 590C*
 Alaimo, Joseph T., 596C
 Alam, Tashrique, 233C
 Alan, Jamie K., 432A*
 Alavez, Silvestre, 16, 214B*
 Albert Hubbard, E. Jane, 841B
 Alborn, H., 884C
 Alborn, Hans, 1232C
 Albritton, Sarah, 914C
 Alcedo, Joy, 31, 245C, 286B
 Alden, Darym, 456A
 Aldrich, Chris, 1194A
 Aleman-Meza, Boanerges, 1008A
 Alexa, Anita, 1118C
 Alexander, Adanna G., 904B*
 Alexander, Mariam, 488C, 1108B
 Alfonso, Aixa, 484B
 Alkema, Mark, 92
 Alkema, Mark J., 29*

Allen, Anna K., 807A*
 Allman, Erik, 591A*, 661B
 Altshuler-Keylin1, Svetlana, 40
 Altun, Z. F., 1217C
 Alvares, Stacy, 808B*
 Alvaro, Christopher, 593C
 Amagasa, Kosuke, 384A*
 Amaral, Luis A., 319B
 Ambros, Victor, 193, 305C, 797C, 976B, 989C, 995C
 Ambros, Victor R., 972A*
 Ames, Kristina, 809C*
 Amin, Nirav, 713C
 Amon, Siavash, 433B*
 Amsler, Charles, 611C
 Anastasiades, Daphne, 973B*
 Anbil, Sriram, 513A
 Andachi, Yoshiki, 974C*
 Andersen, Erik, 129
 Andersen, Erik C., 190*, 874B*
 Andersen, Julie, 216A
 Anderson, Alexandra, 155*
 Anderson, Courtney, 752C
 Anderson, Dorian, 1051B
 Anderson, Edward, 595B
 Anderson, Edward N., 251C
 Anderson, M., 459A
 Andreou, Artemisia, 215C*
 Andrew, Dillin, 254C
 Androwski, Rebecca J., 434C*
 Andux, Sara, 344C
 Ang, Y. J., 704C
 Angeli, Suzanne, 216A*
 Angelo, Giana, 146*, 378A, 1210B
 Angerman, Karolin, 112
 Antebi, A., 10, 90
 Antebi, Adam, 285A, 353C, 359C, 1205C
 Anthony, Hannah L., 385B*
 Antoshechkin, Igor, 1010C, 1202C
 Apfeld, Javier, 314C, 334B
 Appleby, Peter, 525A
 Appleford, Peter J., 697B*
 Aprison, Erin Z., 319B
 Arai, Hiroyuki, 852A, 1044A
 Araiz, C., 217B*
 Araiz, Caroline, 23, 336A
 Arauz, Claudia, 435A
 Arda, H. Efsun, 1009B
 Ardiel, Evan L., 592B*
 Aristizabal, David, 917C
 Ariz, Mohd, 864A
 Armenti, Stephen, 1082C*
 Armisen-Garrido, Javier, 990A
 Aroian, Raffi, 1236A, 1237B
 Aroian, Raffi V., 389C, 414A
 Arpalahiti, L., 218C*
 Artyukhin, Alex, 219A*
 Aryal, Dipendra, 689C
 Asahina, Masako, 45
 Asakura, Taro, 479C
 Asano, Kahori, 384A
 Ash, Peter E. A., 992C
 Ashe, Alyson, 13
 Ashish, Kumar, 1142C
 Ashrafi, Kaveh, 45, 87, 367B, 505B
 Askjaer, Peter, 1006B, 1155A
 Asthagiri, Anand, 1059A
 Aston, P., 88

Attreed, Matthew, 99*
 Au, C., 88
 Aubert, Sylvie, 108
 Audhya, Anjon, 107
 Ausubel, Frederick, 387A
 Ausubel, Frederick M., 149, 187, 398C, 403B, 429A
 Avery, L., 35
 Avery, Leon, 219A, 372A
 Avinoam, Ori, 48*
 Avram, Alexandra, 1156B
 Awani, Awani, 743C*
 Awoyinka, O., 1238C
 Axelrod, Abram, 93
 Aydin, Özge Z., 271B
 Ayuso, Cristina, 1155A
 Aziz-Zaman, Sonya, 601B

B

Baas, Sarah R., 511B*
 Babadi, Nasrin, 435A*
 Babu, Kavita, 570A, 586B
 Bach, Cynthia, 220B*
 Bachoud-Levi, Anne-Catherine, 301B
 Back, Patricia, 289B
 Baer, Charles, 875C*, 895B
 Baer, Charles F., 876A*
 Baer, G. Michael, 593C*
 Bageshwar, S., 1083A*
 Bagijn, Marloes, 196
 Bagijn, M. P., 996A
 Bai, Jihong, 496B
 Bai, Zhiyong, 1030B
 Baier, Felix, 1186B
 Bailey, Daniel, 877B
 Baillie, D., 1176A
 Baillie, David, 910B, 921A, 1002A
 Baillie, David L., 911C
 Baillie, D. L., 453A
 Bailly, A., 1209A
 Bair, J., 341C
 Baird, Scott E., 877B*
 Bais, Harsh, 929C
 Baison, George, 456A
 Baker, S., 499B
 Baker, S. T., 459A
 Baker, Tom, 395C
 Bakos, Brendan, 839C
 Bakowski, Malina A., 156*
 Baldi, Christopher C., 878C*
 Baldwin, Austin T., 698C*
 Baldwin, James G., 1240B
 Bandyopadhyay, Jaya, 280B
 Bansal, Ankita, 221C*
 Banse, Stephen A., 975A*
 Bao, Zhirong, 172, 176, 706B, 727B, 1120B, 1197A
 Barbagallo, Belinda, 436B*
 Barbier, Louis, 449C, 512C*
 Bargmann, Cori, 140
 Bargmann, Cornelia, 28, 549A
 Bargmann, Cornelia I., 130
 Barkoulas, Michalis, 699A*
 Barr, Angela, 801A
 Barr, Maureen, 490B, 624A, 993A,

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

..... 1057B, 1073C	Beverly, Matthew,..... 513A*	Boyd, Windy A.,..... 225A*, 600A*
Barr, Maureen M.,..... 136, 434C, 502B, 671C	Bhalla, Needhi,..... 349B, 818C, 1140A, 1147B, 1157C	Bozdag, Serdar,..... 409B
Barrasa, M. Inmaculada,..... 115	Bhanot, G.,..... 21	Brabin, Charles,..... 697B, 717A
Barret, Alec,..... 1042B	Bhatia, A.,..... 21	Bradley, Ellen,..... 401C
Barriere, Antoine,..... 879A*	Bhatia, Sangeeta R.,..... 760B	Braeckman, Bart,..... 23, 289B
Barriere, Antoine,..... 114	Bhatla, Nikhil,..... 514B*	Braeckman, B. P.,..... 817B
Barry, James,..... 252A	Bhaumik, Dipa,..... 283B	Braendle, Christian,..... 127, 712B, 826B, 848C, 887C, 896C
Barsi-Rhyne, Ben,..... 437C*	Bhende, Kritika,..... 1074A	Bragg, Robert M.,..... 638C
Barstead, Robert,..... 6, 1123B	Bian, X.,..... 473C	Brandt, Julia P.,..... 601B*
Barstead, Robert J.,..... 1214C*	Bian, Xuelin,..... 649B, 676B	Branicky, Robyn,..... 515C*
Barstead, Mitani and Moerman Labs,..... 6	Bianchi, Laura,..... 38	Braslow, Joshua,..... 623C
Bastiani, Michael,..... 471A	Bicep, Cédric,..... 1219B	Braun, Toby,..... 789A*
Batzoglou, Serafim,..... 936A	Bichara, Dario R.,..... 1198B	Brauner, Martin,..... 93
Baugh, Ryan,..... 231A, 1010C	Bienvenut, W.,..... 459A	Breare, Andrea,..... 1025C*
Baumeister, R.,..... 1211C	Bierhaus, Angelika,..... 310B	Breiding, Alex,..... 738A
Baumeister, Ralf,..... 318A, 1098A	Bieri, Tamberlyn,..... 1003B	Brejning, Jeanette,..... 27
Bayes, Joshua,..... 810A*	Billi, A. C.,..... 194*	Brenner, John L.,..... 790B*
Bazopoulou, Daphne,..... 222A*	Billing, Ola,..... 362C, 363A	Brent, Roger,..... 942A
Bazzicalupo, P.,..... 746C	Birck, Pernille K.,..... 357A	Bretscher, A. J.,..... 577B
Bean, Christopher,..... 821C	Biron, D.,..... 598B*	Brice, Alexis,..... 301B
Beard, Sarah M.,..... 905C*	Biswas, Arundhati,..... 365C	Brings, Victoria E.,..... 597A
Becker, Ben,..... 353C*	Blackwell, Gina,..... 646B	Brinkman, F. S.,..... 453A
Beets, I.,..... 360A	Blackwell, Keith,..... 927A	Brittin, C.,..... 548C
Beets, Isabel,..... 594A*	Blackwell, Leah,..... 224C*	Brocard, Lysiane,..... 66
Behensky, Frantisek,..... 912A, 943B	Blackwell, TK,..... 22*	Brock, Trisha J.,..... 703B
Behm, Aaron,..... 1231B	Blacque, O. E.,..... 1049C	Brockway, Heather M.,..... 1130C*
Behm, Carolyn,..... 834A	Blacque, Oliver,..... 505B	Brodar, L.,..... 327A, 1122A
Beifuss, Katherine,..... 1039B	Blacque, Oliver E.,..... 164	Brodigan, Thomas,..... 719C
Bélicard, T.,..... 13	Blakely, Randy D.,..... 511B	Broekhuis, Joost,..... 1026A*, 1027B*
Bélicard, Tony,..... 392C	Blanchette, Cassandra,..... 439B*	Broitman-Maduro, G.,..... 988B
Bélicard, Tony,..... 880B*	Blencowe, Benjamin,..... 1015B	Broitman-Maduro, Gina,..... 410C
Bell, Harold,..... 513A	Bleuler-Martinez, Silvia,..... 420A	Brooks, Alison,..... 354A*
Bell, Taylor,..... 1243B	Bloniarz, A.,..... 531A, 548C	Brooks, Darren,..... 1131A*
Bellanger, J.-M.,..... 453A	Bloniarz, Adam,..... 554C	Brouilly, Nicolas,..... 406B*
Bellemer, A.,..... 537A	Bloom, Josh S.,..... 874B	Brown, Elinor,..... 1028C
Bellen, H. J.,..... 750A	Bloom, Joshua S.,..... 190	Brown, Loreal,..... 1243B
Belsky, Jason,..... 1010C	Boag, Peter R.,..... 812C*	Brown, Rebecca,..... 516A*
Bembenek, J.,..... 55	Boeck, Max E.,..... 700B*	Brueggemann, Chantal,..... 40, 602C*
Bembenek, Joshua N.,..... 58, 1129B*	Bogaerts, Annelies,..... 683C	Bruinsma, Janelle J.,..... 371C
Bénard, Claire,..... 439B, 469B	Bois, Justin,..... 175	Brul, Stanley,..... 238B
Bender, Ambre,..... 1113A	Bojanala, Nagagireesh,..... 45	Bruno, Maribel,..... 235B
Benedetti, Kelli,..... 503C	Bolling, Mia,..... 646B	Brusseau, Jade R.,..... 638C
Benedetti, Kelli L.,..... 438A*	Bolling, Mia H.,..... 596C	Bryan, Fonslow,..... 254C
Benian, Guy,..... 1061C	Bond, Michelle R.,..... 386C*	Bryner, Stephanie,..... 284C
Benian, Guy M.,..... 1084B*, 1085C*, 1112C, 1127C	Bonner, Jennifer,..... 1061C	Bryon, Kimberley,..... 517B*
Benkemoun, Laura,..... 788C*	Boom, Joshua,..... 266C	Büchter, C.,..... 257C
Bennett, Heather L.,..... 595B*, 678A	Borgo, Ben,..... 851C	Buckingham, Steven D.,..... 186
Bennett, Jessica,..... 629C	Bortolon, Ricardo,..... 599C*	Buckley, Bethany,..... 206
Bennett, Kira C.,..... 331B	Bosada, Fern,..... 443C	Bucolo, Anthony,..... 611C
Benovic, Jeffrey,..... 689C, 692C	Bose, N.,..... 90	Budovskaya, Yelena V.,..... 83*, 352B
Ben-Yakar, Adela,..... 94	Bose, Neelanjan,..... 30, 1205C*, 1208C, 1212A	Buechner, Matthew,..... 1028C*, 1038A
Berber, S.,..... 223B*	Bossinger, O.,..... 257C	Buechner, Matthew J.,..... 183
Berezikov, E.,..... 986C	Bothorel, Marie,..... 1000B	Buelow, Hannes,..... 99, 451B, 495A
Berg, Janette,..... 965C	Boucher, Benjamin,..... 1001C*	Bueno De Mesquita, Matthew,..... 679B
Berkowitz, Laura A.,..... 776C	Boudreau, Jeffery,..... 162	Bühler, Alessandra,..... 178
Berkseth, Matthew R.,..... 811B*, 836C	Boudhours, Magali,..... 535B	Bukhari, Syed Irfan Ahmad,..... 813A*
Bernadskaya, Yelena,..... 1064C	Boulas, Konstantinos,..... 80*	Bumbarger, Daniel J.,..... 518C*
Bernadskaya, Yelena B.,..... 1086A*	Boulin, Thomas,..... 575C	Bundy, Jake G.,..... 1206A
Bernal, Teresita,..... 45	Bour, James,..... 728C	Bunkers, Meredith,..... 649B
Bernard, Delphine,..... 891A	Bouzat, Cecilia B.,..... 540A	Burdick, Joshua,..... 1195B
Besser, J. M.,..... 317C	Bowerman, Bruce,..... 72, 137, 1136C, 1152A, 1181C	Burdina, Anna O.,..... 550B
Bessereau, Jean-Louis,..... 201, 568B, 575C	Bowerman, Bruce A.,..... 1132B	Burger, Julien,..... 788C
Bethke, A.,..... 90	Bowie, Rachel,..... 505B	Burghoorn, J.,..... 959C
Bethke, Axel,..... 79, 1205C	Boxem, Mike,..... 1023A*, 1166C	Burghoorn, Jan,..... 1027B
Bettinger, Jill,..... 590C, 646B	Boyd, Lynn,..... 332C, 1024B*	Bürglin, Thomas,..... 927A, 960A
Bettinger, Jill C.,..... 596C*, 597A*		Burglin, Thomas R.,..... 701C*
Betzu, Justine,..... 1243B		Bürglin, Thomas R.,..... 921A, 1190C

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Burke, Samantha, 976B*	Cerón, Julián, 917C, 950C	Chihara, Daisuke, 1090B*
Burkhart, Kirk, 121, 984A	Cesnulevicius, Konstantin, 960A	Chilton, Brittney, 443C*
Burkhart, Kirk B., 206*	Cezairliyan, Brent, 387A*	Ching, T., 1213B
Burlingame, A., 237A	Cha, Amanda, 547B	Chin-Sang, Ian D., 162, 383C, 506C
Burns, Andrew, 629C	Cha, Yoon J., 744A	Chinwalla, Asif, 371C
Burns, Andrew R., 603A*	Chakravorty, Adityarup, 1111B	Chirn, Gung-wei, 195
Bush, Ashley, 762A, 1192B	Chalasani, Sreekanth, 604B, 609A	Chisholm, Andrew, 137, 1094C
Butcher, Rebecca, 28, 140	Chalfie, Martin, 3, 37, 447A, 497C, 605C	Chisholm, Andrew D., 148, 460B, 1095A
Butcher, Rebecca A., 655B	Chan, ChungLung, 597A	Chitturi, Jyothsna, 444A*
Butler, Jeffrey J., 312A	Chan, Emily, 1029A*	Chiu, Hao-Chieh, 388B
Butler, Victoria, 690A	Chan, Gus C. M., 918A	Chklovskii, Dmitri, 690A
Butnik, Kimberly L., 820B	Chan, Jason P., 521C*	Cho, Christine, 549A
Butschi, Alex, 420A	Chan, Kevin K., 442B*	Cho, Chun-Yi, 1097C
Buttner, E., 625B	Chan, Raymond C., 58*	Cho, Jeong-Hoon, 274B
Buttner, E. A., 962C	Chan, Shih-Peng, 978A*	Cho, Jeong Hoon, 280B
Buttner, EN, 589B	Chan, Stephanie, 306A	Cho, Joeng-Hoon, 397B
Byrd, Dana, 816A	Chang, Audrey S., 882A*	Cho, Julie, 33, 97*
Byrne, A., 446C	Chang, H. W., 228A*	Choe, A., 884C*
Byrne, Alexandra, 95*	Chang, Jin-Kyung, 691B	Choe, Andrea, 1232C
Byrnes, Lauren, 1087B*	Chang, Leng Chee, 1231B*	Choe, Keith, 233C*
	Chang, Roger, 197	Choe, Keith P., 232B*, 278C, 279A
C	Chang, Yu-Tai, 1088C*	Choi, Jinhee, 234A*, 235B*
Cabello, J., 167	Chang, Zisong, 356C, 970B	Choi, Myung-kyu, 644C
Cabello, Juan, 950C, 1068A	Charles, Mobbs, 282A	Choi, S., 504A, 523B*
Cabreiro, F., 88*, 217B	Chartier, Nicolas, 788C	Choi, Shin S., 744A*
Cabreiro, Filipe, 23	Chatterjee, I., 341C	Choi, Tae-Woo, 366A, 702A*
Cáceras, Ivan, 777A	Chatterjee, Indrani, 858A	Choi, Yonghwan, 276A
Cáceres, Ivan, 1221A*	Chatzigeorgiou, Marios, 105*	Choi, Youngeun, 703B*
Caenorhabditis Genome Analysis Consortium, 189	Chaudhry, Iasha, 5, 1125A	Chokshi, Trushal V., 222A, 1222B*
Cai, Diana, 456A	Chaudhuri, J., 126*	Chotoo, CK, 524C*
Cai, Wai Jiao, 226B*	Chavez, Daniela, 861A	Chou, Eunice, 581C
Calarco, John, 1015B	Chavlovski, Anna, 1074A	Chou, Ting-Chen, 388B
Caldwell, GA, 404C	Chaya, Timothy, 584C	Choudhary, Bikash C., 1031C*
Caldwell, Guy, 783A	Chelo, I., 883B*	Chow, Elly S., 907B*
Caldwell, Guy A., 755C, 769B, 776C	Chen, Baohui, 1033B, 1081B	Chow, King-Lau, 509C
Caldwell, KA, 404C	Chen, C.-H., 308C	Chow, King L., 533C, 647C, 918A
Caldwell, Kim, 783A	Chen, Carlos Chih-Hsiung, 1030B*	Chow, K. L., 704C*
Caldwell, Kim A., 755C, 769B, 776C	Chen, Chang-Shi, 388B*, 389C	Chow, KL, 445B*, 908C*, 909A*
Calhoun, Adam, 604B*	Chen, Chen-Shan, 229B*	Chrisman, Steven D., 606A*
Calixto, Andrea, 168*	Chen, Di, 230C*, 313B	Christensen, R., 446C*
Callemeyn-Torre, Nicolas, 826B	Chen, Huan-Da, 389C*	Christensen, Ryan, 172
Cambon, Karine, 300A	Chen, Jack, 715B	Christensen, Sara N., 1132B*
Campbell, Peter, 1011A	Chen, Kevin, 149	Chronis, Nikos, 222A, 1222B
Cannataro, Vincent, 1091C	Chen, L., 459A	Chu, Diana, 901B, 944C, 1134A
Cantrell, Michael, 410C	Chen, Lizhen, 137*	Chu, D. S., 957A
Cao, P., 784B	Chen, Nansheng, 910B, 1021B	Chu, Jeffrey S. C., 910B*, 1002A*
Carey, James F., 203	Chen, Pin-An, 173	Chu, Joyce, 290C
Carlton, Peter, 1162B	Chen, Ron, 906A*	Chua, Shu Yi, 911C*
Carnell, Lucinda, 284C, 606A, 616B, 652B	Chen, Sway, 690A	Chuang, John, 660A
Carpenter, Anne E., 187	Chen, Sway P., 522A*	Chughtai, Ahmed, 912A*
Carr, Chris, 1018B	Chen, Tsung-Yu, 40	Chuluunbaatar, Tungalag, 1022C, 1175C
Carr, D., 440C*	Chen, Wei, 116, 886B	Chuman, T., 884C
Carre-Pierrat, Maité, 393A	Chen, Xiangmei, 814B*	Chuman, Tatsuji, 1232C*
Carrera, Inés, 492A	Chen, Xiao-Liang, 538B	Chun, Li, 1031C
Carroll, Coleen, 825A	Chen, Xiaoyin, 37*	Chung, George, 1133C*
Carvalho, Ana, 69, 1225B	Chen, Xin, 1089A*	Chung, Samuel, 454B
Carvalho, Carlos, 819A	Chen, Yun, 1092A	Ciinkornpumin, Jessica, 627A
Carvelli, Lucia, 519A*	Chen, Yushu, 605C*	Cinar, Hediye, 409B
Cary, M., 237A	Chen, Yutao, 231A*	Cinar, Hediye N., 390A*
Casanueva, Maria O., 881C*	Chen, Zhunan, 31*	Cinkornpumin, Jessica, 1233A*
Casazza, Margaret R., 441A*	Cheng, Ruby, 614C	Cintra, Thais, 901B
Castro, Paola, 227C*	Cheong, Mi Cheong, 11*	Cintra, Thais Godoy, 1134A*
Caylor, Raymond, 520B*	Cherny, Robert, 762A, 1192B	Ciosk, Rafal, 111, 871B, 1135B*
Cecere, Germano, 973B, 977C*	Cheung, K., 1096B	Cipriani, Patricia G., 1201B
C. elegans modENCODE consortium, 1020A	Chi, Qiuyi, 180	Cipriani, P. G., 979B*
	Chi, Quiyi, 1103C	Clark, Christopher, 92
	Chiang, Wei-Chung, 81*	Clark, Christopher M., 29
	Chien, Shih-Chieh, 158*	Clark, Scott, 443C, 450A, 480A, 486A

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

77

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Doroquez, David, 725C
Doroquez, David B., 1032A*
Dorsett, Maia, 842C
Dose, A., 60
Dose, Andrea, 192
Dossey, A. T., 884C
Dostal, Vishantie, 391B*
Dougherty, Michael, 59
Douglas, C. D., 317C
Douglas, Kristin R., 820B*
Down, Thomas, 906A
Dricot, Amelie, 117
Driscoll, M., 260C, 341C, 574B
Driscoll, Monica, 15, 21, 304B,
..... 326C, 351A, 754B
Driver, Robert J., 665C
Droste, Rita, 474A
Druzhinina, Marina, 840A, 858A
D'Souza, Serena A., 449C*
Du, Hongwei, 1033B*, 1034C*
Du, Lawrence, 741A
Du, Zhou, 727B
Du, Zhuo, 706B*
Dube, Hitesh, 553B
Dubuke, M., 487B
Duerr, Janet, 528A*, 559B
Dumas, Kathleen, 240A*
Dumas, Kathleen J., 87
Dunbar, T. L., 157*
Dupuy, D., 1176A
Dupuy, Denis, 1000B
Duran, M. Berenice, 1061C, 1085C
Durfee, Tim, 1018B
Durr, Alexandra, 301B
Dutton, Jeffrey, 1193C
Duveau, Fabien, 46*
Duzy, Glenn, 1193C

E

Eastwood, Amy L., 612A*
Eckersdorff, Mark, 81
Eckler, Matt, 933A
Eckmann, Christian, 860C
Eckmann, Christian R., 828A
(ECP and PG contributed equally to this
work), 101
Ecsedi, Matyas, 794C*
Edelman, Theresa L. B., 795A*
Edgley, Mark, 5, 6*
Edison, Arthur, 30, 641C, 1207B
Edison, Arthur S., 419C, 1234B
Edison, A. S., 884C
Edmonds, Johnathan W., 831A
Edmonds, Matthew, 529B*
Edwards, Stacey, 563C, 564A
Edwards, T. Matthew, 821C*
Edwards, Tyson, 452C*
Egelhofer, Thea, 192, 1005A, 1204B
Eimer, Stefan, 100, 781B, 891A, 1040C
Eisenhut, R., 167
Eisenmann, David, 935C
Eisenmann, David M., 710C
Eki, Toshihiko, 1235C*
Elbel, Erin, 93
Elgin Lab, Sarah, 1204B
Elle, Ida C., 357A*

Ellendt, S., 405A
Ellis, Brian L., 1236A*
Ellis, Ronald, 125, 229B, 344C, 814B
Ellis, Ronald E., 856B, 878C
El Masri, Leila, 897A
EL Masri, Leila, 132*
Elmi, Muna, 530C*
Emmei, Taishi, 613B*
Emmons, Scott, 1200A
Emmons, Scott W., 554C
Emmons, S. W., 531A*, 548C
Empinado, Hyacinth, 232B
Engert, Christoph G., 707C*
Eom, Hyunjeong, 234A
Erbguth, Karen, 93, 1223C*
Ercan, Sevinc, 192*, 914C*
Erickson, K., 979B
Ermolaeva, Maria, 1163C
Ernst, Susanne, 112
Ernststrom, Glen, 748B*
Ertl, Iris, 950C
Escobar Restrepo, Juan M., 178*, 1035A*
Espiritu, Eugenel B., 1036B*
Estes, Kathleen A., 426A
Estrada, Rodrigo, 901B
Etheridge, Tim, 106, 423A
Etzler, Julie C., 241B*
European Huntington's Disease Network, 301B
Evani, Uday S., 16
Ewald, Collin, 614C*, 968C
Ewing, Brent, 5, 1016C
Ewing, R., 1213B

F

Faergeman, Nils J., 357A
Fagan, Kelli, 667B
Fan, Hui, 1237B
Fan, KC, 445B
Fancsalszky, Luca, 1118C
Fang, Victoria, 708A*
Fang-Yen, Christopher, 92, 690A
Fantz, D. A., 709B*
Farboud, Behnom, 78*
Farese, R., 167
Farina, Francesca, 1188A*
Farley, Brian, 1135B
Farley, Brian M., 111
Farrell, Sara, 322B
Farrington, Danielle, 691B
Farris, Mindy, 242C*
Fassio, C. A., 915A*
Fasullo, Matthew, 822A
Fawcett, Emily, 292B
Fay, David, 949B
Fay, David S., 109*, 269C
Feddersen, Charlotte, 1111B
Feinbaum, Rhonda, 149
Feldman, Jessica L., 14
Félix, M. A., 13
Felix, Marie-Anne, 392C
Félix, Marie-Anne, 46, 127, 152, 190,
..... 699A, 880B, 887C*, 894A, 896C
Felkey, Krysta, 313B
Felton, Chaquetteta M., 916B*
Felton, Terry, 159
Feng, Dingxia, 951A

Feng, Z., 784B, 1213B
Feng, Zhaoyang, 615A*, 648A, 1230A
Ferguson, Annabel, 243A*
Ferkey, Denise, 692C
Fernandez, Anita G., 822A*
Fernando, Lisa, 5
Ferrari, Celine, 826B
Fields, Brandon, 423A
Fievet, Bruno, 185*, 1067C
Filkin, Nanda, 528A
Finstad, Whitney, 252A
Fire, Andrew, 892B
Firnhaber, Christopher, 1173A*
Fischer, Grahame, 23
Fischer, N., 42, 742B
Fisher, Alfred, 243A, 262B
Fisher, Alfred L., 255A
Fisher, K., 1217C
Fitch, David, 1251A
Fitch, David H. A., 127, 184*,
..... 798A, 888A, 922B
Flames, Nuria, 159
Fleming, John T., 183
Flemming, Thomas, 310B
Flibotte, Stephane, 5, 902C, 1093B
Fondufe-Mittendorf, Yvonne, 1014A
Fontana, Marissa, 1243B
Fontana, Walter, 314C, 334B
Fonte, Gin, 391B
Fontrodona, Laura, 917C*, 950C
Ford, Jason R., 1138B*
Forseth, Ry, 628B
Forsythe, Michele, 780A
Foskett, J. Kevin, 425C
Foss, Eric, 606A, 616B*, 652B
Fotopoulos, Nellie, 1092A*
Fox, Bennet, 79
Fox, Paul, 851C
Fradin, Hélène, 888A*
Francis, Michael, 436B, 569C
Franco-Cea, Ari, 853B
Frاند, Alison, 802B
Frاند, Alison R., 8
Franz, Carl J., 392C*
Franz, C. J., 13
Fraser, Andrew, 900A
Fraser, Andrew, 1015B, 1022C
Fraser, Andrew G., 1175C*
Fraser, Andy, 740C
Frederic, M. Y., 453A*
Freeberg, Mallory, 982B*
Freedman, Jonathan, 249A, 250B
Freedman, Jonathan H., 225A, 600A
Friday, Andrew J., 823B*, 832B
Fridman, Karen, 48
Fridolfsson, Heidi, 1116A
Fridolfsson, Heidi, 107
Friedberg, Ryan I., 597A
Friedland, Ari E., 244B*
Fritz, Julie-Anne, 358B*
Froehlich, A., 566C
Froehli-Hoier, Erika, 1165B
Fröhli, Erika, 178
Frøkjær-Jensen, C., 1174B*
Frøkjær-Jensen, Christian, 7*, 173
Frøkjær Jensen, Christian, 631B
Frommolt, Peter, 1163C
Frost, Timothy, 529B

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Fry, Amanda, 532B*
 Frymoyer, Christopher, 552A, 1243B
 Fu, Donald, 19*
 Fu, Lan, 533C*, 918A*
 Fu, Ya, 153*
 Fujita, Kosuke, 534A*
 Fujita, Kumiko, 479C
 Fujiwara, M., 617C*
 Fukamizu, Akiyoshi, 17, 377C
 Fuchs, Z., 239C
 Fukumoto, J., 1128A
 Fukushima, Tetsu, 719C
 Fukuyama, Masamitsu, 52
 Fukuzono, Takashi, 796B*, 1031C
 Fumiko, Isoda, 282A
 Funatsu, Osamu, 1179A
 Furuta, Tokiko, 1137A, 1138B
 Fuursted, Kurt, 411A

G

Gabel, Christopher V., 454B*
 Gabel, C. V., 574B
 Gafner, K., 875C
 Gaidatzis, Dimos, 111, 871B
 Gallagher, Thomas, 1091C
 Gallagher, Thomas L., 618A*
 Galli, Matilde, 71, 1166C
 Gallo, Christopher M., 868B
 Gallotta, I., 746C
 Gaman, Emily A., 16
 Gao, Fay, 454B
 Gao, Jingwei, 663A
 Gao, Shangbang, 535B*
 Gao, Xiaoyang, 938C
 Gao, Zhihuan, 410C
 Gao, Zhiyang, 1056A, 1071A
 Garakani, Arman, 39
 Garcia, Giancarlo, 209
 Garcia, L. Rene, 642A, 805B
 Garcia, L. René, 630A
 Garcia, Rene, 621A
 Garcia, Susana M., 749C*
 Gardner, Jennifer, 646B
 Gardner, Olivia, 1004C*
 Garner, C. C., 459A
 Garriga, Gian, 158, 170, 466B, 1072B
 Garrigues, Jacob, 1005A*
 Garrison, Jennifer, 28
 Gartner, A., 166, 1209A
 Gartner, Anton, 768A, 971C, 1011A, 1118C
 Gasser, Susan, 118
 Gatsi, Roxani, 245C*, 286B
 Gaudet, Jeb, 181, 485C, 793B, 919B, 1093B
 Gauthier, Laura R., 824C*
 Gaydos, Laura, 825A*
 Ge, Q., 455C*
 Ge, Yue, 235B
 Geffeney, Shana, 39*
 Geier, Florian M., 1206A*
 Geiger, David, 1201B
 Gelino, S., 246A*
 Gelino, Sara, 272C
 Gems, D., 88, 217B
 Gems, David, 23, 336A
 Gendrel, Marie, 456A*
 Gengyo-Ando, K., 288A, 1189B*

Gengyo-Ando, Keiko, 1179A
 George, Carolyn, 713C
 George-Raizen, J., 139
 Georgiou, John, 535B
 Gerber, Andre, 773C
 Gerisch, B., 10
 Gerke, Justin, 129
 Gerke, Justin P., 190, 874B
 Gershow, Marc, 690A
 Gerstein, Mark, 1016C
 Ghafari, Ghazal, 547B
 Ghai, Vikas, 919B*, 1093B*
 Ghitani, Alireza, 172
 Ghose, P., 21
 Ghose, Piya, 101*
 Ghosh, Partho, 1237B
 Ghosh, Raj, 190, 874B
 Ghosh, Rajarshi, 129*, 619B*, 668C
 Ghosh-Roy, Anindya, 137
 Giaever, Guri, 368C
 Gibson, Bradford W., 16, 313B
 Gieseler, Kathrin, 393A*, 406B
 Giles, Andrew C., 592B, 620C*
 Gillani, Aneela, 614C
 Gilleland, Cody L., 1224A*
 Gimond, Clotilde, 826B*
 Giordano-Santini, R., 1176A*
 Girsakis, Kelly, 588A
 Gitelman, Julian, 691B
 Giurumescu, Claudiu, 1094C*
 Gladden, John M., 78
 Glasner, Jeremy, 1018B
 Glater, Elizabeth E., 130*
 Glauser, Dominique, 39
 Glazier, Christina M., 1139C*
 Gleason, Ryan, 1037C*
 Glodowski, Doreen R., 1080A
 Glover-Cutter, Kira, 22
 Go, Aiza, 901B, 1134A
 Gobel, Verena, 183
 Godwin, Malik, 121
 Goh, Kah Yee, 1045B
 Golden, Andy, 807A, 1024B
 Goldstein, Ben, 230C
 Goldstein, L. D., 996A
 Goldstein, Leonard, 196
 Goldstein, Leonard D., 13
 Golenberg, N., 55
 Golland, Polina, 187
 Gomez, Nathali, 451B
 Gómez-Orte, Eva, 950C, 1068A
 Gönczy, Pierre, 866C
 Gontijo, Alisson Marques, 108
 Gonzales, Patrick, 391B
 Gonzales, Patrick K., 394B*
 Gonzalez-Aguilera, Cristina, 1006B*
 Goodman, Miriam, 39, 182
 Goodman, Miriam B., 612A, 662C
 Goodrich-Blair, Heidi, 188
 Gordon, Kacy, 114*, 879A
 Gordon, Patricia, 457B*
 Gorelenkova, Olga, 1230A
 Gorman, Kevin T., 827C*
 Gorrepati, Lakshmi, 710C*
 Gorzalski, Andrew, 443C
 Goshima, Yoshio, 479C
 Gotenstein, Jennifer R., 1095A*

Gottschalk, A., 686C
 Gottschalk, Alexander, 93, 103, 542C, 543A, 576A, 1199C, 1223C
 Gouda, Kenji, 1182A
 Goutte, Caroline, 708A, 711A
 Govindan, J. Amaranath, 119, 833C
 Gowtham, S., 475B
 Goy, Jo M., 247B*
 Goyal, Akshi, 438A
 Gozal, David, 416C
 Gracida, Xicotencatl, 828A*
 Graf, Nathan J., 760B
 Graham, Jill, 283B
 Gramstrup Petersen, Jakob, 458C*
 Grant, Barth, 1037C, 1055C
 Grant, Barth D., 73, 1030B, 1080A
 Grant, C., 487B
 Grant, W., 360A
 Grants, Jennifer, 465A
 Grants, Jennifer M., 920C*
 Gravato-Nobre, Maria, 152, 407C, 671C
 Gravato-Nobre, Maria J., 395C*
 Gravel, Roy, 358B
 Green, Phil, 1016C
 Green, Rebecca, 1226C
 Green, Rebecca A., 107*
 Greenan, Garrett, 69
 Greenstein, David, 119, 748B, 829B*, 833C
 Greenwald, Iva, 44, 799B, 1220C
 Greggain, Joel, 343B
 Gregory, Philip, 77
 Greiss, Sebastian, 768A, 1163C
 Grenfell-Lee, Daniel, 387A
 Greskovich, Caitlin, 711A*
 Griffen, Trevor, 579A
 Grill, B., 459A*, 499B
 Grill, Stephan, 175
 Grimbert, Stephanie, 712B*, 826B
 Grishok, Alla, 161, 973B, 977C
 Groisman, Alex, 1225B*, 1226C
 Gross, M., 1238C
 Grosshans, Helge, 794C
 Grossman, Emily N., 460B*
 Grove, Christian A., 1215A*
 Grün, Dominic, 116
 Grundahl, Kiely, 573A
 Grünewald, Kay, 48
 Grussendorf, Kelly, 1028C, 1038A*
 Gschwind, Leo, 580B
 Gu, Chen, 204
 Gu, Mingyu, 100, 104, 573A
 Gu, Wei, 381A
 Gu, Weifeng, 203, 983C*
 Guang, Shouhong, 206, 984A*
 Guenther, Patrick, 897A
 Guevel, Katherine E., 855A
 Guignard, Léo, 1000B
 Guillermin, Manon L., 396A
 Guisbert, Eric, 248C*
 Gulig, Paul A., 419C
 Gumienny, T., 1083A
 Gumienny, Tina, 1039B*
 Gumienny, Tina L., 1115C
 Gunaratna, Miluka, 1177B*
 Gunn, Adam, 762A
 Gunsalus, K. C., 941C, 979B
 Gunsalus, Kris, 1013C
 Gunsalus, Kristin, 107, 970B

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Gunsalus, Kristin C., 1201B
 Guo, Chunfang, 87, 240A
 Guo, Fengli, 369A
 Guo, S., 260C
 Guo, Xiaoyan, 621A*
 Guo, Yiqing, 125*, 814B
 Guo, YuanYuan, 410C
 Gupta, Anu, 622B*
 Gupta, Bhagwati, 433B
 Gupta, Bhagwati P., 669A, 729A
 Gupta, Hersh, 597A
 Gurel, Guliz, 536C*
 Gurenlian, Laura, 552A
 Gurney, A., 499B
 Gusnowski, Eva, 1069B
 Guthrie, James, 70, 371C
 Gutierrez, Edgar, 1225B, 1226C*
 Gutierrez, Paula M., 623C*
 Gutierrez, Peter, 178
 Gutwein, M. R., 941C
 Guven-Ozkan, Tugba, 49
 Guzman, S., 979B
 Gysi, Stephan, 461C*

H

Ha, Dae Gon, 1111B
 Ha, Heon-Ick, 142
 Haag, Eric, 557C
 Haag, Eric S., 898B
 Haas, Kathryn L., 249A*
 Haas, Leonard A., 624A*
 Haburcak, Marian, 569C
 Hacopian, Gizelle, 830C*
 Hagen, Thilo, 1045B
 Hagermann, Jan, 891A
 Haggarty, Stephen J., 1224A
 Hagiwara, Masatoshi, 932C
 Hagstrom, Kirsten A., 115*, 203*
 Hajjar, Connie, 1024B
 Hajnal, Alex, 178, 732A, 735A, 1108B, 1165B
 Hale, Jared, 713C*
 Hale, Valerie, 708A, 711A
 Hall, D., 21
 Hall, David, 1055C, 1106C, 1200A
 Hall, David H., 12, 94, 136, 183, 490B
 Hall, D. H., 1217C
 Hall, D. H. H., 531A, 548C
 Hall, Jenny, 738A
 Hall, Jonathan, 773C
 Hall, Julie, 249A, 250B*
 Hall, Sarah E., 195*
 Hallem, Elissa A., 396A*
 Hallett, Michael, 1001C
 Hamamichi, S., 404C
 Hameed, S., 1049C
 Hamilton, Christina, 1243B
 Hammarlund, M., 446C
 Hammarlund, Marc, .. 95, 452C, 516A, 1173A
 Hammell, Christopher, 9
 Hammell, Christopher C., 193
 Hammell, Christopher M., 431C
 Hammell, Molly, 976B
 Hampson, David R., 603A
 Hamza, I., 364B
 Hamza, Iqbal, 958B

Han, B., 537A*
 Han, Bicheng, 1227A*
 Han, Hsiao-Fen, 100
 Han, Lu, 38*
 Han, Min, 997B
 Han, S., 750A*, 815C
 Han, Seong Kyu, 276A
 Han, T., 194
 Han, Ting, 985B*
 Han, X., 1096B*
 Hanazawa, M., 872C
 Hand, Peter E., 383C
 Hanna-Rose, Wendy, 270A, 342A, 380C, 743C
 Hannemann, Mandy, 100, 1040C*
 Hanover, John, 780A
 Hanover, John A., 386C
 Hansen, Dave, 839C, 867A
 Hansen, Dave D., 824C
 Hansen, Frederik D., 411A
 Hansen, M., 246A
 Hansen, Malene, 145, 268B, 272C, 290C
 Hao, Enhui, 763B
 Hao, L., 589B, 625B*
 Hao, L. M., 962C
 Hapiak, Vera, 1121C
 Hapiak, Vera M., 626C*
 Harandi, Omid F., 797C*
 Hardaway, J. Andrew, 511B
 Hardie, Shannon L., 511B
 Harfe, Brian, 233C
 Harper, Nicola C., 1140A*
 Harrington, Adam J., 755C
 Harris, Todd, 3
 Harris, Todd W., 4*, 1216B*
 Harrison, Melisa M., 115
 Hart, A. C., 747A
 Hart, Anne, 145, 578C, 779C, 782C
 Hart, Anne C., 251C*, 595B, 677C, 678A
 Hartin, Samantha N., 1178C*
 Hartl, Amy, 1243B
 Hartman, Phil, 252A*
 Hasegawa, Koichi, 278C
 Hashiguchi, Kazunari, 263C
 Hashiguti, Kazunari, 293C
 Hashimshony, Tamar, 110, 714A*, 800C
 Hashmi, S., 487B
 Hashmi, Sarwar, 416C, 538B*
 Haspel, Gal, 539C*
 Hasse, Susanne, 112
 Hatch, Tori, 474A
 Hatch, Victoria, 135
 Hattori, Ayuna, 253B*
 Hattori, Yuya, 682B
 Hatzoglou, M., 784B
 Haueter, C., 750A
 Havranek, Jim, 851C
 Hawkins, Nancy, 715B*
 Hawkins, R. David, 1204B
 Hayano, T., 893C, 899C
 Hayashi, Michiko, 63
 He, Liping, 333A, 425C
 Heatherly, Jessica, 572C
 Heck, Albert, 1023A, 1166C
 Hedges, Ashley, 121
 Hegemann, Peter, 1223C
 Hegermann, Jan, 100, 781B
 Heighington, Cassandra S., 1141B*

Heiman, Maxwell G., 462A*
 Heimbucher, Thomas W., 254C*
 Hekimi, Siegfried, 348A
 Hellman, Andrew B., 98
 Hench, Jürgen, 921A, 960A, 1190C
 Henderson, Melissa A., 823B, 832B
 Hendricks, M., 670B
 Hendricks, Michael, 142*
 Hengartner, Michael, 461C, 773C
 Hengartner, Michael O., 420A, 785C
 Henikoff, Steven, 1203A
 Henriksson, Johan, 921A*, 927A, 1190C*
 Henz, S., 1016C
 Heredia, Fabiana, 108
 Herl Martens, L., 167
 Herman, Michael, 400B, 428C
 Hermann, Greg J., 1041A*, 1042B*
 Hernando, Guillermina S., 540A*
 Herndon, L., 21
 Herndon, L. A., 1217C*
 Herndon, Laura A., 12
 Herrera, Antonio, 1251A
 Herrera, R. Antonio, 184, 798A*, 922B*
 Herrmann, Christina J., 1035A
 Herrmann, Moritz S., 1007C*
 Hibshman, Jonathan D., 385B
 Hicks, Matthew L., 755C
 High, Amber, 5, 1016C
 Hill, David, 117
 Hill, Robin L., 1241C*
 Hill-Harfe, Katherine, 233C
 Hilliard, Massimo, 1221A
 Hilliard, Massimo A., 94, 463B*, 745B, 765A, 766B, 777A
 Hillier, LaDeana, 5, 1016C
 Hingwing, Kyla, 715B
 Hirani, Nisha, 923C*
 Hirose, Takashi, 751B*
 Hirota, Keiko, 17, 377C
 Hirotsu, T., 694B
 Hisamoto, N., 784B
 Hisamoto, Naoki, .. 253B, 471A, 796B, 1031C
 Ho, Margaret, 30
 Hoang, Hieu D., 831A*
 Hobert, O., 475B, 489A
 Hobert, Oliver, 159, 160, 208, 456A, 457B, 464C, 492A, 500C, 508B, 730B
 Hobson, RJ., 541B*
 Hobson, Robert, 173, 573A
 Hochbaum, Daniel, 255A*
 Hodgkin, Jonathan, 152*, 186, 395C, 407C, 559B, 671C, 1109C
 Hoeijmakers, Jan H. J., 271B
 Hoffman, Corey, 1091C
 Hoffman, Jacob, 1208C
 Hofler, Catherine, 551C
 Holdrich, Emma, 437C
 Holloper, Gunther, 104, 173
 Holmberg, Carina I., 927A
 Holmberg, C. I., 218C
 Holstein, Deborah, 241B
 Hong, Ray, 609A, 627A*, 636A, 1233A
 Honjoh, Sakiko, 256B*, 261A, 338C
 Honnen, S., 257C*
 Hood, Greg, 1200A
 Hoogewijs, D., 817B
 Hoover, Christopher, 563C, 564A
 Hopkins, Christopher, 1177B

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

- Hori, Sayaka, 1179A
 Horikawa, Makoto, 359C*
 Horvitz, Bob, 74, 80, 135, 514B, 707C, 751B, 752C, 913B
 Horvitz, H. R., 566C, 753A
 Horvitz, H. Robert, 543A
 Horvitz, H. Robert, 115
 Horvitz, Robert, 474A
 Hossain, Ayesha, 1055C
 Howard, Austin, 1110A
 Howe, Dana, 875C
 Howe, Kevin, 1003B
 Howell, Kelly, 43
 Howell, Kelly L., 464C*
 Hryshkevich, Uladzislau, 110*
 Hsiao, Tiffany I., 148
 Hsu, A., 1213B
 Hsu, Ao-Lin, 81
 Hsu, Hiao-Ting, 1086A
 Hsu, Hui-Ting, 924A*
 Hsueh, Yen-Ping, 628B*
 Hu, Jinghua, 430B, 1053A, 1054B, 1075B, 1076C
 Hu, Patrick, 240A, 243A, 1205C
 Hu, Patrick J., 87*
 Hu, P. J., 90
 Hu, Queenie, 258A*
 Hu, Shuang, 1121C
 Hu, Yan, 414A, 1236A, 1237B*
 Hu, Z., 523B
 Hu, Zhitao, 570A, 586B
 Huang, A., 167
 Huang, Cheng, 267A
 Huang, Jheng-Wei, 1097C
 Huang, Ken Ke-Chih, 472B
 Huang, Nancy N., 716C*
 Huang, Oliver, 415B
 Huang, S., 76
 Huang, Tsai-Fang, 1097C*
 Huang, X., 455C
 Huang, Xu, 1098A*
 Huang, Xun, 501A, 507A
 Huang, Y., 784B
 Hubbard, Alan, 230C, 313B
 Hubbard, EJ, 239C
 Hubbard, E. Jane Albert, 122, 835B, 837A, 849A
 Huber, Tobias B., 477A
 Hubert, T., 96*
 Hubert, Thomas, 137
 Hudson, Martin, 1110A
 Hudson, Martin L., 1178C
 Hughes, Robert, 283B
 Hughes, Robert E., 16
 Hughes, Samantha L., 717A*
 Hughes, Stacie E., 267A
 Hullett, Patrick, 100
 Hulme, Elizabeth, 690A
 Hung, Wesley, 444A, 535B
 Hunt, Piper R., 259B*
 Hunter, Craig, 20
 Hunter, Craig P., 209, 716C, 975A
 Hunter, Jerrod, 572C
 Hurd, Daryl D., 1043C*
 Hurwitz, M. E., 772B
 Hurwitz, Michael E., 752C*
 Hussain, Mahmood, 538B
 Hussainkhel, Angela, 465A
 Husson, Steven J., 103*, 542C*, 543A*
 Hutter, H., 453A
 Hutter, Harald, 465A*
 Hutvagner, Gyorgy, 971C
 Hwang, Ara B., 85*
 Hwang, Christine, 444A
 Hwang, Hyejin, 644C
 Hylands, Peter, 953C
 Hyman, Anthony, 107, 112
 Hyun, M., 213A
 Hyun, Moonjung, 265B, 309A
I
 Iatsenko, Igor, 150*, 417A
 Ibanez, P., 166
 Ibanez-Ventoso, C., 21, 260C*, 341C
 Ibourek, Mouna, 1100C
 Ibrahim, Youssef, 310B
 Ihara, Akiko, 261A*
 Iino, Y., 694B, 1049C
 Iino, Yuichi, 133, 141, 545C, 639A, 674C, 967B
 Ikeda, Shingo, 544B*
 Ikegami, Kohta, 811B, 925B*
 Ikegami, Richard, 466B*
 Ikegaya, Y., 1189B
 Ikemoto, Atsumi, 263C
 Imae, Rieko, 1044A*
 Imig, Jochen, 773C
 Imlay, Leah, 1111B
 Immerman, Lois, 629C*
 Inestrosa, Nibaldo C., 552A
 Ingersoll, C. G., 317C
 Inoue, A., 138*, 675A
 Inoue, Hideshi, 384A
 Inoue, Takao, 926C*, 1044A, 1045B*, 1065A
 Ioue, Takao, 852A
 Ip, KK, 909A
 Ipacs, Joseph, 528A
 Irazoqui, Javier E., 187
 Irazoqui, J. E., 154
 Isaac, R. Elwyn, 1131A
 Isaacson, Ariel B., 1193C
 Isack, Nora R., 1080A
 Ishidate, T., 51*
 Ishido, Y., 893C, 899C
 Ishihara, T., 138, 617C, 675A, 694B
 Ishii, Naoaki, 17, 347C, 377C
 Ishikawa, Satoru, 293C
 Isik, M., 986C*
 Ito, M., 893C, 899C, 939A, 1012B
 Ito, Shu, 123
 Itoh, Hiroko, 672A
 Iwanir, S., 598B
 Iwasa, Hiroaki, 351A
 Iwasaki, T., 288A
 Iwasaki, Takashi, 1182A
 Iwasaki, Yuishi, 545C*, 693A
 Iwata, Ryo, 639A
 Izrayelit, Yevgeniy, 79*, 1207B*
J
 Jacob, Sandrine, 891A
 Jacobs, René, 145
 Jacobson, Lew, 106, 423A
 Jadiya, Pooja, 298B, 299C, 1184C
 Jaeger, Eva, 1050A
 Jafari, G., 583B
 Jafari, Gholamali, 546A*
 Jakobsen, Helle, 27
 James, Simon, 1192B
 Janette, Judith, 112
 Jang, Heeun, 140*
 Jansen, Gert, 271B, 585A, 687A, 1026A, 1027B
 Janssen, T., 360A*
 Janssen, Tom, 594A, 683C
 Jäntti, Jussi, 1046C
 Janukavicius, Patrick, 691B
 Janzen, Laine, 547B*
 Jarrell, T., 531A, 548C*
 Jarrell, Travis, 554C
 Jarriault, S., 42, 742B
 Jarriault, Sophie, 200
 Jee, Changhoon, 630A*
 Jenna, Sarah, 1001C, 1101A
 Jensen, Morten, 973B
 Jensen, Victor L., 164
 Jeong, Dae-Eun, 273A
 Jeong, Johan, 843A
 Jeong, Pan-Young, 1142C*
 Jeong, P. Y., 645A
 Jeppsson, KE, 959C
 Jevince, A., 21
 Jiang, Y., 13
 Jiang, Yanfang, 392C
 Jin, CongYu, 927A*
 Jin, H., 784B
 Jin, Wei, 615A
 Jin, Y., 96, 459A
 Jin, Yishi, 137
 Jindra, Marek, 45
 Jing, Yudong, 1071A
 Jinghua Hu, 695C
 Jiu, Yaming, 1046C*
 Johnsen, Bob, 910B, 1002A
 Johnsen, Holly L., 753A*
 Johnsen, R., 1176A
 Johnson, Casonya, 916B, 964B, 969A
 Johnson, Corey R., 718B*
 Johnson, David, 322B
 Johnson, Eric, 1181C
 Johnson, Jacque-Lynne, 656C
 Johnson, Nicholas, 834A
 Johnson, Steven M., 930A
 Johnson, Thomas E., 942A
 Johnson-Voll, G. V. W., 761C
 Jolliffe, Kristie, 1153B
 Jonathan, Yates, 254C
 Jones, Martin R., 1143A*
 Jones, Steven, 1002A
 Joo, H. J., 645A
 Joo, Hyoe-Jin, 11
 Jorgensen, Benjamin, 930A
 Jorgensen, EM., 541B
 Jorgensen, EM., 7, 1174B
 Jorgensen, Erik, 100, 104, 173, 556B, 573A, 748B
 Jose, Antony M., 209*
 Joshi, Pradeep M., 1142C
 Jospin, Maëlle, 631B*
 Jovanovic, Marko, 773C
 Jover-Gil, Sara, 1140A
 Jow, Margaret, 901B, 944C

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Jow, Margaret M.,	78	Katz, Menachem,	634B*	Kimura, Kenji,	1048B*
Joyner, Ebony,	808B	Kauffman, Amanda L.,	680C	Kimura, Kotaro,	534A, 565B, 693A, 1228B
Juang, Bi-Tzen,	204*	Kaur, Supinder,	298B, 299C, 1184C	Kimura, Masako,	1044A
Juaregui, Andrew R.,	502B	Kaur, Taniya,	1144B*	Kimura, Y.,	1049C*
Judkins, J.,	90	Kaushik, Neha,	822A	Kinet, Maxime J.,	756A*
Judkins, Joshua,	1205C	Kaushik, Shail,	929C*	King, Brian,	1041A
Judkins, Joshua C.,	1208C*	Kautu, Bwarenaba B.,	755C*	King, Dana M.,	9*
Judy, M.,	167	Kawano, T.,	288A	King, Lauren,	552A, 1243B
Jumani, Tina,	553B	Kawano, Taizo,	512C	Kinkel, Stephenie,	86
Jung, Hana,	632C*	Kawano, Tsuyoshi,	1182A	Kinter, Caroline,	563C
Juo, Peter,	169, 553B, 562B	Kawazoe, Yuya,	1228B*	Kinter, Michael,	563C
Juozaityte, Vaida,	467C*	Keikhaee, Reza,	72*	Kiontke, Karin,	798A, 888A, 922B, 1251A
K		Keiper, Brett D.,	763B, 823B, 832B*	Kiontke, Karin C.,	127*, 184
Kache, V.,	126	Kelleher, Alan,	1237B	Kipreos, Edward T.,	62, 1141B
Kadiyala, C.,	1213B	Kelly, William G.,	821C	Kirchner, Marieluise,	116
Kage-Nakadai, Eriko,	1044A, 1179A*	Kemp, Benedict J.,	790B, 804A	Kirienko, Natalia V.,	149, 398C*
Kagias, K.,	42	Kempa, Stefan,	356C	Kirszenblat, Leonie,	463B
Kagias, Konstantinos,	467C, 987A*	Kemper, Kevin,	787B	Kissiov, Djem,	468A
Kagoshima, Hiroshi,	889B*, 928B*	Kemphues, Kenneth,	1058C	Kissling, Grace E.,	600A
Kai, Zoya,	197	Kempton, Colton E.,	930A*	Kiyoji, Nishiwaki,	1119A
Kajiho, Hiroaki,	52	Kennedy, Lisa,	161*	Klang, Ida,	216A
Kajino-Sakamoto, Rie,	422C	Kennedy, Scott,	121, 206, 984A	Klang, Ida M.,	214B
Kajiwar, Yukiko,	256B	Kenning, Charlotte,	891A	Kleemann, Gunnar,	266C*
Kalchhauser, Irene,	1135B	Kent, Amanda,	117	Klock, Zachary,	1050A*
Kalichamy, Karunambigai,	633A*	Kenyon, C.,	237A	Klompstra, Diana,	1051B*
Kalis, Andrea K.,	468A*	Kenyon, Cynthia,	24, 84, 85, 167	Klosterman, Susan M.,	550B*
Kalloo, G.,	747A	Kerr, Rex A.,	620C	Klugman, Sarit,	1204B
Kamat, Shaunak,	754B*	Kersey, Rossio K.,	719C*	Klymko, Katherine,	977C
Kambe, Asuka,	384A	Kershner, Aaron M.,	857C	Knauf, Sara M.,	638C*
Kamentsky, Lee,	187	Khan, Ghulam,	1234B	Knezevich, Phil,	503C
Kammenga, J. E.,	405A	Khan, Liakot A.,	183*	Knight, Adam,	783A
Kampkötter, A.,	257C	Khan, Numan,	252A	Knight, Alison J.,	834A*
Kanao, Shuka,	471A	Khare, Shilpi,	227C	Kniss, Sarah,	1111B
Kang, Chanhee,	372A	Khivansara, Vishal,	985B	Knobel, Karla,	816A, 1172C
Kang, Junsu,	1052C	Kida, Katarzyna,	164	Knölker, Hans-Joachim,	356C
Kang, Lijun,	101, 648A	Kienle, Simone,	890C*	Knott, Julie,	2
Kang, Sang Jo,	320C	Kihira, Shingo,	1150B	Kobayashi, K.,	637B*
Kant, Sashi,	946B	Killilea, David W.,	307B	Kobayashi, Yasuhiko,	682B
Kao, Aimee,	167*	Kim, Chuna,	264A*	Kobuna, Hiroyuki,	1179A
Kao, Cheng-Yuan,	389C	Kim, Daeyeon,	635C*, 1227A	Koelle, M.,	537A
Kao, Gautam,	361B*, 362C*, 363A*	Kim, Dennis H.,	86, 408A	Koelle, Michael,	536C, 551C*
Kao, HL,	979B	Kim, Do Han,	934B	Koelle, Michael R.,	526B, 567A
Kao, Huey-Ling,	107, 1201B	Kim, Dong-Wan,	1047A*	Kogan, D.,	884C
Kapahi, Pankaj,	226B, 230C, 313B	Kim, Dong hyun,	212*	Kohara, Yuji,	720A, 737C, 851C, 889B,
Kaplan, F.,	884C	Kim, E.,	213A		927A, 928B, 974C
Kaplan, Fatma,	1232C	Kim, Eunsun,	265B*, 309A	Kohn, Rebecca E.,	552A*, 1243B*
Kaplan, J. M.,	523B	Kim, H.,	645A	Kolasinska-Zwierz, Paulina,	1007C, 1204B
Kaplan, Joshua,	496B, 570A	Kim, H.-S.,	1099B*	Kolesnick, RN,	239C
Kaplan, Joshua M.,	586B	Kim, Heekyeong,	644C	Komuniecki, Richard,	1121C
Kaplan, O. I.,	1049C	Kim, Hongkyun,	510A	Komuniecki, R. W.,	626C
Karambelas, Andrea E.,	271B	Kim, Hwan-Jin,	397B*	Kong, Cin,	399A*
Karania, Snetu,	39	Kim, Hye-sung,	644C	Konno, Hiroyuki,	720A*
Karbassi, Farhad,	1074A	Kim, Hyun-Min,	812C, 1145C*	Kontani, Kenji,	52
Karp, Xantha,	799B*	Kim, J. K.,	194	Koo, H.,	645A
Karpel, Jonathan E.,	1242A*	Kim, John,	980C, 982B, 985B	Koo, Hyeon-Sook,	320C, 329C
Karpen Lab, Gary,	1204B	Kim, Kyuhyung,	140, 655B	Koo, P.,	473C
Kashyap, Luv,	262B*	Kim, S.,	51	Koo, Pamela,	649B, 676B
Kassahun, Henok,	311C	Kim, Sanguk,	276A	Koon, Janet,	258A
Kasuga, Hidefumi,	52*	Kim, Seongseop,	119*, 833C*	Korchnak, A.,	626C
Katada, Toshiaki,	52	Kim, Shinhye,	181	Korf, Ian,	898B
Kato, Masaomi,	1016C	Kim, Stuart,	112, 287C, 325B, 346B,	Kormanik, Kaitlyn,	243A
Kato, Mihoko,	179*		936A, 1020A	Kormish, Jay,	181*
Kato, Saul,	549A*	Kim, Stuart K.,	83, 352B	Korneeva, Nadejda,	832B
Kato, Shinya,	141	Kim, Y.,	1146A*	Kornfeld, K.,	709B
Kato, Yuichi,	263C*, 293C	Kim, Yongsoon,	243A	Kornfeld, Kerry,	18, 70, 267A, 371C
		Kimata, Tsubasa,	544B	Korolnek, T.,	364B*
		Kimble, Judith, 147, 816A, 843A, 857C, 859B		Korswagen, H.,	475B
		Kimura, Akatsuki,	1048B	Korswagen, Hendrik C.,	1107A

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Korta, Dorota Z., 835B*, 837A	Labocha, Marta K., 1008A*	Lee, Kyungjoon, 1204B
Kostrouch, David, 956C	LaBonty, Melissa, 1087B, 1100C*	Lee, Leo, 1015B
Kostrouch, Zdenek, 912A, 943B,	Labouesse, M., 1099B	Lee, Lucy Mingchih, 1030B
..... 945A, 956C	Labouesse, Michel, 1113A	Lee, Myeongwoo, 1150B*
Kostrouchova, Marta, 912A, 943B,	Lacoste-Caron, Germain, 1101A*	Lee, Nam, 236C
..... 945A, 956C	Ladage, Mary L., 247B	Lee, Norris, 5
Kotera, I., 1191A*	Laehnemann, David, 897A	Lee, S., 759A*
Kotera, Ippei, 19	Laha, Michael, 401C*	Lee, Sangho, 1047A
Kotwaliwale, Chitra, 192	Lainé, Viviane, 631B	Lee, Se jin, 329C
Kotwaliwale, C. V., 60*	Lakowski, Bernard, 108*, 891A*	Lee, Seung-Jae, 85, 273A, 276A*
Kourtis, Nikos, 757B*	Lamb, Annesia L., 665C	Lee, S. S., 228A
Koushika, Sandhya, 1229C*	Lamb, Virginia, 984A	Lee, Sun-Kyung, 366A, 1047A
Koushika, Sandhya P., 169, 1031C	Lamelza, Piero, 1147B*	Lee, Sunkyung, 280B, 632C, 633A, 934B
Kovacevic, Ismar, 177*	Lamitina, Todd, 294A, 333A, 425C, 584C	Lee, Teresa W., 1151C*
Kovanda, Timothy, 661B	Lamond, A. I., 1209A	Lee, T. H., 645A
Kowalski, Jennifer R., 169, 553B*	LaMunyon, Craig, 373B, 830C	Lee, Tim, 39
Kozłowska, Joanna L., 885A	Lamunyon, Craig W., 365C*	Lees, Hayley, 277B*
Kradofer, David, 178	Land, Marianne, 640B*, 1244C*	Lehmann, Susann, 106
Kraemer, Brian C., 561A	Landuyt, Bart, 543A	Lehner, Ben, 881C, 1185A
Krajacic, Predrag, 425C	Lang, Jackie, 192	Lehrbach, Nicholas J., 990A
Kramer, Barbara, 1250C	Lange, Karen I., 1102B*	Lehrbach, Nicolas, 196, 971C
Kramp, K., 784B, 1213B	Lange, Stephanie E., 270A*	Leibler, Stanislas, 660A
Kratsios, Paschalis, 160*	Langebeck-Jensen, Kasper, 470C*	Leifer, Andrew, 92*, 690A
Krause, Michael, 719C, 780A, 943B	Lans, Hannes, 271B*	Leitenberger, Vi, 1178C
Krause, Michael W., 386C, 1019C	Lapierre, Louis, 272C*	Lejeune, François-Xavier, 1219B
Krebs, Kelsey J., 342A	Larance, M., 1209A*	Leng, J., 1016C
Kreisberg, Jason, 413C	Large, EE, 988B*	Leong, Weng Yee, 1026A
Kressin, Leah, 93	Largey, Fabienne, 735A	Leopold, Luciana, 933A*
Kreuzer, Kiel, 528A	Larkins-Ford, Jonah, 149, 398C	Leroi, Armand M., 1206A
Kroetz, Mary B., 836C*	Larsen, P. L., 324A	Leroux, Michel, 1060B
Kroetz, Silvina, 636A*	LaRue, Candace C., 1245A*	Leroux, Michel R., 164*, 502B, 656C
Kruesi, William S., 210*	Láscarez, Laura, 758C*	Leroux, M. R., 453A
Kruglyak, Leonid, 129, 190, 266C,	Lascarez-Lagunas, Laura, 853B	L'Etoile, Noelle, 204, 547B, 602C, 653C
..... 619B, 668C, 874B	Lassegue, Circe, 641C*	L'Etoile, Noelle, 623C
Kubiseski, Terry J., 258A	Lau, Joanne, 5	L'Etoile, Noelle D., 40
Kugler, Hillel, 837A*, 1218A*	Lau, Nelson C., 195	Leung, Chi, 232B, 233C
Kuhara, Atsushi, 34	Lawrence, Kate, 1148C*	Leung, Chi K., 278C*, 279A*
Kuhlwein, M., 487B	Lazaro-Pena, Maria I., 554C*	Leung, Ka-Po, 646B*
Kukudov, Georgi, 310B	Lazarus, Brooke, 780A	Leung, Kapo, 596C
Kulkarni, Anagha, 469B*	Le, Son T., 366A*	Levin, Michal, 800C*
Kulkarni, Madhura, 855A	Le, Thuc T., 357A	LeVora, Jennifer, 786A
Kulkarni, Rashmi P., 838B*	Leahul, Lindsay, 839C*	Lewis, Avalyn, 358B
Kullyev, A., 583B	LeBoeuf, Brigitte L., 642A*	Lewis, Jada, 409B
Kullyev, Andrey, 546A	Lechleiter, James D., 241B	Lewis, Suzanna, 876A
Kumar, Jitendra, 1031C	LeClerc, Joseph, 409B	Lhuegbu, N., 154
Kumar, Sandeep, 267A*	Lecroisey, Claire, 406B	Li, Chris, 614C, 904B, 968C
Kumar, Ujendra, 89	Lee, Andrew, 77	Li, Chun, 471A*
Kumsta, Caroline, 268B*	Lee, Anna Y., 1001C	Li, Chunmei, 164, 502B
Kunitomo, H., 1049C	Lee, Bo Yun, 555A*	Li, Dangling, 285A
Kunitomo, Hirofumi, 141, 639A*, 674C	Lee, Brian H., 367B*	Li, Hang, 444A, 535B
Kuntz, Steven G., 931B*	Lee, Daehan, 643B*, 644C	Li, Liang, 358B
Künzler, Markus, 420A	Lee, Dongyeop, 273A*	Li, Rachel C. K., 647C*
Kuo, Cheng-Ju, 388B	Lee, Hancee, 1052C*	Li, Renhua, 898B
Kuramochi, Masahiro, 545C	Lee, Harksun, 644C*	Li, Wei, 648A*
Kurhanewicz, Nicole, 231A, 1010C	Lee, Heng-Chi, 205*	Li, Weiqing, 242C
Kuroda Lab, Mitzi, 1204B	Lee, Ho-Hyun, 274B*	Li, Weixun, 280B*, 632C
Kuroyanagi, Hidehito, 932C*	Lee, Hyoung-Joo, 11	Li, X., 455C
Kurshan, Peri T., 1187C	Lee, Inhwon, 275C*	Li, Xia, 501A
Kurumathurmadam Mony, Vinod, 400B*	Lee, J. C. C., 704C	Li, Xin, 1033B
Kuzmanov, Aleksandra P., 269C*	Lee, J. E., 645A*	Li, Xuan, 927A
Kwong, Ada, 940B	Lee, Jennifer K., 601B	Li, Yujie, 1053A*, 1054B*, 1075B
	Lee, Ju-Yeon, 274B, 397B	Li, Yuqing, 611C
	Lee, Jungsoo, 630A	Liang, B., 583B
	Lee, Junho, 264A, 555A, 643B,	Liang, Bin, 546A
	 644C, 903A, 1052C	Liao, Edward, 444A
	Lee, K.-Y., 1149A*	Liao, Vivian, 328B
	Lee, Kiho, 903A	Libuda, Diana E., 63*
	Lee, Kyung-Hwa, 36	Lieb, Jason, 192, 925B, 973B, 1204B

L

Laband, Kimberley, 107
Labbé, Jean-Claude, 311C, 788C
Labella, Sara, 832B

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Lieb, Jason D.,.....	811B, 948A	Lu, Hang,.....	103, 542C, 777A,	Makowski, Tiffany,.....	827C
Liewald, Jana F.,	542C		1187C, 1199C, 1221A, 1223C	Maldonado, Ernesto,.....	853B
Lilley, Lauren R.,	1103C*	Lu, K.,	21	Malik, Rabia,.....	79
Lillios, Nicholas,	407C	Lu, N.,	165	Malkin, Emily,	169
Lim, D.,	295B	Lu, Xiaojun,	188	Malmquist, Sarah,.....	795A
Lim, DongYoung,	234A	Lu, Xuemin,	474A*	Mancuso, Vincent,.....	43
Lim, Yun-Ki,.....	934B*	Lu, Yun,	38	Mancuso, Vincent P.,.....	1106C*
Lin, Alex,.....	146	Lublin, Alex,	282A*	Manfredi, John,	1177B
Lin, Conny H. C.,.....	472B*	Lucanic, Mark,	16, 283B*	Mango, Susan,.....	924A
Lin, Li,.....	1121C	Lucas, J.,.....	979B	Mango, Susan E.,	703B, 722C
Lin, Nan,.....	679B	Lucas, J. M.,.....	941C	Mangone, M.,.....	941C*
Lin, R.,.....	76	Luciani, Genna M.,	368C*	Mani, Kumaran,	109
Lin, Rueyling,.....	49, 49*, 64	Ludewig, Andreas,	937B*	Mann, Frederick G.,.....	287C*
Linda, Nguyen,.....	282A	Ludewig, Hanno,	79	Manning, Gerard,.....	25, 1004C, 1017A
Lindblom, Tim,	224C	Luhachack, L. G.,.....	154	Mano, Itzhak,	774A
Lindblom, Tim H.,.....	1246B*	Luke, CJ,	524C	Mansisor, Andres,.....	977C
Lindemans, Marleen,.....	594A	Luke, Cliff J.,	760B*	Mantione, Gary,	1091C
Lindsay, Penelope L.,.....	381A	Lun, Aaron,	946B	Mantovani, Julie,.....	792A
Ling, Clarence,	1091C	Lundin, V. F.,	453A	Maples, Thomas,.....	93
Link, CD,	404C	Lundquist, Erik,.....	478B, 494C	Marc, Swartz,	282A
Link, Christopher,	762A	Lundquist, Erik A.,.....	163, 432A, 493B	Marcello, Matthew R.,	840A*
Link, Christopher D.,	394B, 992C	Lundstedt, Staffan,	374C	March, Amanda,	1243B
Link, Christopher D.,	391B	Luo, Jiansong,	689C	Marcus, Nancy,	1117B
Lints, R.,.....	473C*	Luo, Jingjing,	854C	Mardis, Elaine,	851C
Lints, Robyn,	649B*, 676B	Luo, L.,	670B	Mardis, Elaine R.,	371C
Liou, Willisa,	1055C*	Luo, Liqun,	171	Marie-Anne, Felix,.....	900A
Liszewski, Walter,	1111B	Luo, Wenshan,	1008A	Mark, Karla,	216A
Lithgow, Gordon,	216A, 283B, 313B	Lüppert, Martin,	921A	Marra, Amanda,	224C
Lithgow, Gordon J.,	16, 214B, 307B	Ly, Nina,	1116A	Marra, Marco,	1002A
Litterst, Claudia,	1180B*	Lyczak, Rebecca,	1050A	Martin, Ashley A.,	558A*
Little, B.,.....	281C*			Martin, Emmanuel,	1101A
Liu, Bin,.....	1034C, 1081B			Martinez, Alfredo,.....	1068A
Liu, Chu-Kong,	946B			Martinez-Perez, Enrique,	1131A
Liu, Gang,.....	315A			Maruyama, Ichiro,.....	658B, 673B
Liu, Jie,	663A	M., Langouet,	1035A	Maruyama, S.,	617C
Liu, Jun,	162, 713C	Ma, Amy T.,	402A*	Mason, D. Adam,	922B
Liu, Kai,.....	1056A*	Ma, Long,	938C*	Masoudi, N.,	166*
Liu, Q.,	541B	Ma, Zhongming,.....	425C	Masoudi, Neda,	1118C
Liu, Qiang,	104, 556B*	MacCoss, Michael,	1016C	Masson, Jean-Yves,	813A
Liu, Qinwen,	557C*	MacCoss, Michael J.,	1210B	Mastrobuoni, Guido,	356C
Liu, Shirley,	192	MacDonald, Margaret,	401C	Mathes, Sarah,	721B*
Liu, Shu,	318A	Machaca, Khaled,	838B	Mathews, Ellie,	559B*, 572C, 573A
Liu, Tao,	192	Mackay, Joel,	946B	Mathews, Thomas P.,	370B*
Liu, Wan-Ju,	935C*	MacNeil, Lesley T.,	1009B*	Matilainen, O.,	218C
Liu, Xiao,	936A*	MacQueen, A. J.,	1171B	Matsuba, Chikako,	876A
Liu, Xinyu,	690A	Madden, Katherine L.,	187	Matsuki, N.,.....	1189B
Liu, Xuezhao,	1071A	Maduro, M.,	988B	Matsumoto, K.,	784B
Liu, Yan,	121, 933A	Maduro, Morris,	410C, 999A	Matsumoto, Kunihiro,	253B, 471A,
Liu, Ying,	1236A	Maeder, Celine I.,	98		796B, 1031C
Liu, Zihan Hans,	187	Maeshiro, T.,	939A*, 1012B	Matsunaga, Y.,	288A*
Ljosa, Vebjorn,	187	Maffey, Nicolas,	142	Matsunaga, Yohei,	1182A
Llamosas, Sara,	547B	Magana, Maya,	284C*	Matthews, T. A.,	761C*
Llamosas, E.,	223B	Magner, Daniel,.....	285A*	Matthijssens, Filip,.....	23, 289B*
Llop, Jesse,	322B	Magomedova, Lilia,	368C	Mattingly, Brendan,	1028C
Lo, Jacqueline,	306A	Maguire, Julie,	1057B*	Matus, David Q.,	180*
Lo, M.,	76	Maguire, Sean,	29	Maurer, Ulrike,	48
Lo, Te-Wen,	77*, 955B	Mah, Allan,	940B*	Mauri, Alessandra,	826B
Loloyan, Michael,	1104A*	Mahanti, Parag,	30, 90*, 1205C, 1208C	Mavandadi, Sepand,	1015B
Lombard, David B.,	81	Mahoney, TR.,	165	Maxwell, Colin,	1010C*
Long, Fuhui,	936A	Maier, Wolfgang,	31, 245C, 286B*	Mayers, Jonathan,	107
Looger, Loren,	1199C	Mainpal, Rana,	806C	McCloskey, Richard J.,.....	1058C*
Lourenço, Guinevere F.,	749C	Mains, Paul,	854C, 905C	McClung, George,	738A
Love, Dona,	780A	Mains, Paul E.,	1105B*, 1127C	McClure, Erin E.,	560C*
Lowe, Anita,	942A	Mair, William,	25*	McColl, Gawain,	313B, 762A*, 1192B*
Lowry, Josh,	1136C, 1152A*, 1181C	Maison, Patrick,	301B	McCormick, Allyson V.,	561A*
Lozano, Encarnación,	981A	Mak, Ho Yi,	998C	McCright, Samuel,	629C
		Mak, Ho Yi,	369A*	McCrohan, Catherine R.,	307B
		Makil, Neetha,	1092A	McCulloch, Katherine A.,	801A*

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

McDonald, Megan,.....	358B	Meza Gutierrez, Fernando,.....	724B*		1123B, 1125A
McElhanon, Kevin E.,.....	331B	Miard, Stéphanie,.....	316B	Mohamed, Ahmed M.,.....	162*, 506C
McEwan, Andrea,.....	650C*	Michael, W. Matthew,.....	870A	Mohammadi, Aylia,.....	668C
McEwan, Deborah L.,.....	403B*	Michaelson, D.,.....	239C	Mohammed, Ateequr Rahman,.....	362C
McEwan, Lisa,.....	834A	Michaelson, David,.....	841B*	Mohan, Swetha,.....	1060B*
McGee, Caitlin,.....	552A	Michaux, Gregoire,.....	66*	Mohanti, Ipsita,.....	816A
McGee, Matthew D.,.....	12*	Michaux, Grégoire,.....	1062A	Mohd, Ariz,.....	842C*
McGehee, Annette,.....	562B*	Michel, A.,.....	915A	Mohler, William A.,.....	174, 1193C*
McGhee, James,.....	965C	Michiels, Nico K.,.....	132	Mohr, T. G.,.....	405A
McGovern, Olivia,.....	1153B*	Michiels, Nicolaas K.,.....	897A	Mok, M.,.....	704C
McGrath, Patrick T.,.....	28*	Middleton, June H.,.....	1247C	Molk, Jeff N.,.....	14
McIntire, Steven,.....	630A	Midkiff, James T.,.....	651A*	Møller, Tine H.,.....	764C*
McIntire, Steven L.,.....	308C	Miedel, Mark M.,.....	760B	Monahan, Kimberly,.....	75
McJunkin, Katherine,.....	989C*	Miguela, Veronica,.....	108	Monahan, Kimberly B.,.....	726A*
McKay, Sheldon,.....	900A	Mikeladze-Dvali, Tamara,.....	866C	Mondal, Sudip,.....	1229C
McKee, Celia,.....	581C	Mikl, Martin,.....	65*	Monobe, K.,.....	893C*, 939A, 1012B
McKinney, Sean,.....	369A	Mikolas, Pavol,.....	943B*	Monsalve, Gabriela C.,.....	8*
McLachlan, Ian G.,.....	462A	Miley, N.,.....	1171B	Montalvo-Katz, Sirena,.....	415B
McLarnon, Caitlyn,.....	552A, 1243B	Miller, Aaron,.....	283B	Monte, A.,.....	1238C
McManus, John,.....	573A	Miller, Angela,.....	5	Monteiro, Michael I.,.....	169*
McMullan, Rachel,.....	155, 517B, 530C	Miller, Dana L.,.....	292B*	Montgomerie, David,.....	1231B
McMullen, Patrick,.....	248C	Miller, David M., III,.....	836C, 1016C	Montgomery, Scott,.....	725C
McMullen, Patrick D.,.....	319B	Miller, Jason,.....	1250C	Montminy, Marc,.....	25
McPhee, Christina K.,.....	722C*	Miller, Jeffrey,.....	77	Montoya, Misty,.....	39
McQuary, Philip,.....	290C*	Miller, Kenneth,.....	563C*, 564A*	Mony, Vinod,.....	428C
McShea, M.,.....	487B	Miller, Kenneth G.,.....	1214C	Mooney, Sean D.,.....	16
McWhirter, Rebecca D.,.....	836C	Miller, Kristine,.....	437C	Moore, Caroline,.....	653C*
Mecenas, D.,.....	941C	Miller, Leilani,.....	721B, 724B, 725C*	Moore, Julia,.....	727B*
Meeker, Jessica,.....	1050A	Miller, M.,.....	759A, 815C	Moore, Julia M.,.....	176
Meeley, Lauren,.....	1243B	Miller, M. A.,.....	750A	Moore, Kelsey,.....	728C*
Meelkop, E.,.....	360A	Miller, Matthew,.....	629C	Mora-Blanco, E. Lorena,.....	725C
Meelkop, Ellen,.....	543A, 594A, 683C	Miller, Michael,.....	611C, 1077A, 1111B, 1181C	Morales-Martinez, Adela,.....	1155A*
Meemon, Krai,.....	701C	Miller, Michael A.,.....	831A	Morán, Tomás,.....	917C
Megalou, E. V.,.....	340B	Miller, Renee M.,.....	36*, 667B	Morante, Ianessa,.....	25
Megalou, Evgenia,.....	291A*, 770C	Miller III, David M.,.....	103	Moraru, Ion,.....	1193C
Mehta, Anil,.....	1118C	Milman, Kelly,.....	610B	Morck, Catarina,.....	170*
Meier, Bettina,.....	1011A*	Minevich, G.,.....	475B*	Morcos, Michael,.....	310B
Meiller, Clément,.....	1188A	Minniti, Alicia N.,.....	552A	Moresco, James,.....	207, 985B
Meinel, Thomas,.....	937B	Minoda, Aki,.....	1204B	Morf, Matthias,.....	1108B*
Meister, Peter,.....	118*	Minor, Paul,.....	1059A*	Morgan, Alan,.....	529B
Meléndez, Alicia,.....	272C, 809C, 1063B	Miranda-Vizuete, A.,.....	404C	Morgan, Clinton T.,.....	859B
Melentijevic, I.,.....	21	Mirosoian, Susan,.....	901B	Morgan, Dyan,.....	843A
Meli, Vijaykumar,.....	802B*	Mis, Emily,.....	822A	Morgan, Frank,.....	1193C
Mello, C.,.....	51	Mishima, M.,.....	1149A	Mori, Akihiro,.....	927A
Mello, Cecilia C.,.....	892B*	Miska, E. A.,.....	996A	Mori, I.,.....	637B
Mello, Craig,.....	205, 207, 863C, 983C	Miska, Eric,.....	196, 330A, 971C	Mori, Ikue,.....	34, 544B, 613B, 657A, 659C, 672A, 681A
Mello, Craig C.,.....	203	Miska, Eric A.,.....	13*, 990A	Mori, M.,.....	1099B
Melo, Justine,.....	91*, 1018B	Miska, Erik,.....	970B	Morimoto, Richard,.....	248C
Melov, Simon,.....	12, 230C, 313B	Miskowski, J. A.,.....	1238C*	Morimoto, Richard I.,.....	319B
Mendel, Jane E.,.....	3*	Mitani, S.,.....	194, 288A	Morioka, Yusuke,.....	384A
Mendenhall, Alexander R.,.....	942A*	Mitani, Shohei,.....	6, 1044A, 1179A	Morise, Hisashi,.....	1235C
Meneely, Philip,.....	1153B	Mitchell, Jacinth,.....	121*, 206	Moriwaki, Takahito,.....	263C, 293C*
Menet, Sophie,.....	301B	Miwa, Johji,.....	278C	Moronetti, Lorenza,.....	333A
Menger, Robert,.....	1234B	Miyagi, M.,.....	1213B	Morris, Corey,.....	725C
Mentink, Remco A.,.....	1107A*	Miyazaki, Yosuke,.....	565B*	Morris, Quaid,.....	1015B
Merrihew, Gennifer,.....	1016C	Miyazaki, Erika,.....	1235C	Morrison, J. Kaitlin,.....	763B*, 832B
Merrihew, Gennifer E.,.....	1210B*	Mizumoto, Kota,.....	102*, 1070C	Morsci, Natalia,.....	624A, 1073C
Merrrow, Martha,.....	302C	Mizuno, Tomoaki,.....	253B, 471A	Mortazavi, Ali,.....	188
Mesrob, Lilia,.....	1219B	Mizunuma, Masaki,.....	22	Morton, Elizabeth,.....	294A*
Messina, Kari,.....	1154C*	Moeller, Tine,.....	27	Moss, Eric,.....	787B
Metaxas, D.,.....	260C	Moen, Spencer,.....	652B*	Motegi, Fumio,.....	1162B
Metheetrairut, Chanatip,.....	723A*	Moens, L.,.....	817B	Moussaif, M.,.....	504A
Mets, David,.....	211	Moerman, D.,.....	7	Mowrey, William R.,.....	654A*
Meyer, Barbara,.....	77, 201, 211, 963A	Moerman, Don,.....	6	Mukhopadhyay, Arnad,.....	301B
Meyer, Barbara J.,.....	56, 78, 210, 955B, 1014A, 1151C	Moerman, Donald,.....	465A, 902C	Mullan, Hillary,.....	629C
Meyer, B. J.,.....	915A	Moerman, Donald G.,.....	5*, 1084B, 1112C,	Mullen, Greg,.....	559B, 572C, 573A
Meyerzon, Marina,.....	1116A			Müller, Michael,.....	1163C

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Müller-Reichert, Thomas, 69
Munarriz, E., 979B
Munarriz, Eliana, 1201B
Mundo-Ocampo, Manuel, 1240B
Muñoz, Javier, 1023A, 1166C
Munoz-Lobato, F., 404C*
Murakami, H., 295B
Murakami, R., 1099B
Murakami, S., 295B*, 296C*
Murayama, Takashi, 673B
Murayama, Yuki, 297A*
Murfitt, Kenneth J., 990A*
Muriel, Joachim M., 891A
Murley, Kathleen, 1243B
Murphy, Coleen, 266C, 315A
Murphy, Coleen T., 680C
Murphy, John T., 371C*
Murphy, Katherine, 1243B
Murray, John, 112, 696A, 936A, 1195B
Mushi, Juliet, 1111B
Muthumala, Neomal, 627A, 1233A
Myers, Chad, 117
Myers, Edith, 375A
Myers, Edith M., 1247C*
Myers, Gene, 936A
Myers, Toshia, 1156B*
Mylonakis, Eleftherios, 149

N

Na, Hong, 1022C, 1175C
Na, Keun, 11
Näär, Anders, 145
Nabhan, Ahmad N., 944C*
Nadarajan, Saravanapriah, 119
Nagamura, Y., 1189B
Naganathan, Sundar, 175*
Nagy, S., 598B
Naito, Yasuki, 141
Naji, H., 21
Nakad, R., 405A*
Nakagawa, Yasuhito, 347C, 852A
Nakai, J., 1189B
Nakai, Junichi, 565B
Nakamura, A., 167
Nakano, Shunji, 74*
Nakashima, Aisa, 121
Nakayama, S., 939A, 1012B
Nakielna, Johana, 945A*
Nam, Hong Gil, 276A
Nam, Hyun-Jun, 276A
Nam, Seugnhee, 555A
Nance, Jeremy, 73, 1029A, 1051B, 1082C, 1090B, 1114B
Naredi, Peter, 361B, 362C, 363A
Narlikar, Geeta, 944C
Nash, Bruce, 72
Nash, William, 1003B
Nasri, Ubaydah, 830C
Nasrin, Afsana, 614C
Nass, Richard, 778B, 786A
Natarajan, Balasubramanian, 361B, 362C
Nathan, Sheila, 399A
Navarro, Rosa E., 758C, 771A, 847B, 853B
Nawroth, Peter, 310B
Nazari Daftari, A., 1211C*
Nazir, Aamir, 298B*, 299C*, 1184C

Neal, Scott J., 655B*
Nehkre, Keith, 23
Nehrkke, Keith, 591A, 661B
Nehrkke, Keith W., 684A
Nehrkke, K. W., 761C
Nelson, Andrew, 1015B
Nelson, Christian, 1157C
Nelson, Jessica C., 476C*, 491C
Nelson, M., 139*
Nelson, Matthew D., 184, 798A
Neri, Christian, 300A*, 301B*, 1219B*
Néri, Christian, 1188A
Nesmith, Jessica E., 807A
Neumann, Brent, 94*, 463B, 765A*, 766B
Neumann-Haefelin, Elke, 477A*
Ng, Natalie, 1045B
Nguyen, K., 548C
Nguyen, Ken, 490B
Nguyen, Ken C. Q., 94, 136
Nguyen, Phuong Anh T., 656C*
Nia, B. V., 295B
Nicholas, Hannah R., 946B*
Nicholas, H. R., 223B
Nichols, Annika L. A., 766B*
Niessen, Sherry, 107
Nilsen, Hilde, 311C
Nimalendran, Rathika, 641C
Nimmo, Rachael, 789A
Nishida, Eisuke, 256B, 261A, 338C
Nishida, Yukuo, 657A*, 681A
Nishijima, Saori, 658B*
Nishio, Nana, 613B
Nishiwaki, K., 1099B
Nishiwaki, Kiyoji, 736B
Nislow, Corey, 368C
Niu, Y., 947C*
Nix, Paola, 78, 471A
Noble, Daniel, 843A*
Noble, Lisa, 1225B
Noble, Tallie, 355B, 370B
Noerregaard, Steffen, 411A
Noguchi, Koki, 720A
Nonomura, Mayu, 657A
Norman, Kenneth, 532B, 1061C*
Norman, Ken R., 560C
Norris, Adam, 478B*
Norton, Stephanie, 1224A
Novotny, Jan, 912A
Nuez, I., 13
Nuez, Isabelle, 894A*
Nurrish, Stephen, 517B, 530C
Nusbaum, Chad, 1018B
Nusser, Stefanie, 1108B
Nusser-Stein, Steffanie, 732A
Nyström-Friberg, Josefin, 374C

O

Obata, Hatsue, 737C
Ochiai, Yuta, 659C*
O'Connell, Kevin, 59
Oczypok, Beth, 106, 423A
Oda, S., 694B
Oda, Shigekazu, 545C, 674C
O'Doherty, Inish, 89
O'Doherty, Oran, 30
O'Donovan, Michael J., 539C

Odusami, Oluwakemi, 390A
Oegema, Karen, 57, 69, 107, 1225B, 1226C
Offner, Nicolas, 300A, 301B
Ogura, Ken-ichi, 479C*
Ogura, Teru, 297A, 1168B
Oh, Hyun J., 510A
O'Hagan, Robert, 136*
O'Hagan, Robert, 490B
O'Halloran, Damien, 602C
O'Halloran, Damien M., 40*
O'Hanlon, Shanté, 482C
Ohkura, K., 1099B
Ohnishi, Noriyuki, 34
Ohno, Hayao, 141*, 639A
Ohno, Motoki, 852A
Okano, A., 1012B*
Okkema, Peter, 483A, 952B
Oláhová, Monika, 339A
Olejnik, Nicholas, 259B
Olendrowitz, Christian, 891A
Oliver, Brian, 898B
Oliver, Daniel, 480A*
Olivier-Mason, Anique, 1032A
Ollikainen, N., 237A
Olmedo, Maria, 302C*
Olsen, Anders, 27*, 411A, 764C
Olsen, Carissa Perez, 303A*
Olson, Sara, 1225B
Olson, Sara K., 69*
O'Meara, Maggie, 508B
Omichi, Yukari, 1182A*
Omura, D., 566C
Onami, S., 862B
Onken, Brian D., 304B*
Ootori, Muneyoshi, 1179A
Operana, Theresa, 22
Orfila, Anne-Marie, 301B
Orfila, Anne-marie, 300A
O'Rourke, Delia, 152, 186
O'Rourke, Delia M., 407C*
O'Rourke, Eyleen J., 187
O'Rourke, Sean, 137, 1181C*
Orphan, Victoria J., 1240B
Orth, Michael, 301B
Ortiz, Anabel, 482C
Osato, Naoki, 115
Osborne, Erin A., 948A*
Ostafi, Silvana, 15
Osterberg, Valerie R., 1132B
Ostrow, Dejerianne, 876A
Otomo, Yukae, 852A
Otsuka, Anthony, 1231B
Ou, Chan-Yen, 98*
Ow, Maria, 305C*
Owen Thompson, Pnina Strasbourger, 1016C
Ozersky, Philip, 1003B

P

Paaby, Annalise, 1013C*, 1201B
Pacella, Marisa J., 342A
Pacquelet, Anne, 1062A*
Padgett, Richard, 1037C
Padilla, Pamela, 1245A
Padilla, Pamela A., 247B
Paek, Jennifer, 306A*
Pagano, Daniel J., 408A*

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Page, Kathryn E.,.....	307B*	Perry, David,.....	1194A	Portman, Douglas,.....	441A, 1251A
Paik, Y. K.,.....	645A	Perry Lab, Mark,.....	1204B	Portman, Douglas S.,.....	36, 654A, 667B
Paik, Young-ki,.....	644C	Peters, Fabian,.....	886B	Potter, Christopher J.,.....	171
Paik, Young-Ki,.....	11	Peters, Maureen,.....	629C, 661B*	Pouillet, Nausicaa,.....	826B, 848C*
Paix, Alexandre,.....	844B*	Peters, Maureen A.,.....	1248A*	Poupel, Olivier,.....	891A
Pall, Matthew,.....	1243B	Peters, Theodore,.....	16	Pourkarimi, Ehsan,.....	768A*, 1118C
Palla, Misbah,.....	724B, 725C	Petersen, Carola,.....	886B	Powell, Jennifer R.,.....	385B, 418B
Palmisano, Nicholas J.,.....	1063B*	Petrella, Lisa N.,.....	50*	Powell, SN.,.....	239C
Palozola, Katherine,.....	43	Petrucelli, Leonard,.....	992C	Powell-Coffman, Jo A.,.....	951A*
Pan, C.-L.,.....	308C*	Petzold, Bryan C.,.....	662C*	Powell-Coffman, Jo Anne,.....	101, 321A
Pan, Qun,.....	1015B	Pfeiffer, Michael,.....	310B*	Pozniakovski, Andrei,.....	112
Pan, Tzu-Ming,.....	328B	Pham, Minh,.....	482C*	P. Premkumar, Devika Sharanya,.....	729A*
Pandey, Santosh,.....	321A	Phillips, Bryan T.,.....	698C	Praitis, Vida,.....	1111B*
Papassotiropoulos, Andreas,.....	580B	Phillips, Carolyn M.,.....	991B*	Prasad, Pooja,.....	438A
Papp, Andy,.....	1194A*	Phillips, Patrick,.....	345A	Prasain, J.,.....	750A, 831A
Pappas, Andrea,.....	100	Phirke, P.,.....	959C	Prescott, Hilary,.....	569C*
Paquin, N.,.....	566C*	Phirke, Prasad,.....	136	Presler, Marc,.....	1154C
Parashar, Archana,.....	321A	Piano, F.,.....	941C, 979B	Preston, Christine G.,.....	1014A*
Parihar, Manish,.....	845C*	Piano, Fabio,.....	107, 116, 202, 822A, 888A, 1013C, 1201B	Preston, Elicia,.....	1195B
Park, Dae Hwi,.....	1079C	Piasecki, BP,.....	959C	Price, Meredith H.,.....	1132B
Park, Donha,.....	79, 89*	Piasecki, Brian P.,.....	136	Price, Rebecca,.....	407C
Park, Eun Chan,.....	101	Picard, Frédéric,.....	316B	Priess, James R.,.....	14, 1203A
Park, H.,.....	213A	Pickett, Christopher L.,.....	18*	Prigge, Matthias,.....	1223C
Park, Hyejin,.....	265B, 309A	Pickle, Catherine,.....	77	Pruitt, Beth,.....	39
Park, Jin-Sung,.....	635C	Piekny, Alisa,.....	1092A, 1104A	Pruitt, Beth L.,.....	662C
Park, Joori,.....	437C, 438A, 503C	Pierce-Shimomura, J.,.....	686C	Pruyne, David,.....	1105B
Park, S.,.....	213A	Pierce-Shimomura, Jon,.....	610B, 666A	Puckrin, Rachel,.....	368C, 449C
Park, Sojin,.....	265B, 309A*	Pierce-Shimomura, Jonathan,.....	93	Pukala, Tara,.....	762A
Park, Sung-Jin,.....	662C	Pierce-Shimomura, Jonathan T.,.....	767C*	Pukkila-Worley, Read,.....	149*, 429A
Park, Sungsu,.....	644C	Pierson, Laura,.....	406B	Puschner, Birgit,.....	653C
Parker, Alex,.....	427B	Piffaretti, J.,.....	13	Putrenko, Igor,.....	691B
Parker, J. Alex,.....	301B	Piggott, Beverly,.....	615A	Putzke, Aaron P.,.....	728C
Park Lab, Peter,.....	1204B	Piggott, Beverly J.,.....	648A	Pym, Edward,.....	570A*
Parmentier, Frédéric,.....	1219B	Piggott, Beverly J.,.....	663A*	Pym, Edward C. G.,.....	586B
Parmentier, Frédéric,.....	1188A	Pilgrim, David,.....	819A		
Parrish, Angela,.....	1183B*	Pinan-Lucarre, B.,.....	574B		
Parry, Jean,.....	1106C	Pinan-Lucarre, Berangere,.....	568B*		
Partridge, Frederick,.....	152	Pincus, Zachary,.....	82*		
Partridge, Frederick A.,.....	186*, 1109C*	Pineda, Victor,.....	242C		
Partridge, L.,.....	88	Pintard, Lionel,.....	788C		
Paschal, Cate Randall,.....	1157C*	Pioppo, Lauren,.....	738A		
Pasquinelli, Amy,.....	197	Pires da Silva, A.,.....	126		
Patel, Dhaval,.....	242C	Pires da Silva, Andre,.....	845C		
Patel, Falshruti,.....	1086A	Pirri, Jennifer K.,.....	29		
Patel, Falshruti B.,.....	1064C*	Pirrotta Lab, Vincenzo,.....	1204B		
Patel, Harshil,.....	282A	Pitt, Jason N.,.....	664B*		
Patel, Isha,.....	409B	Plenefisch, John,.....	1126B		
Patel, Tulsi,.....	730B*	Plock, Cory,.....	1218A		
Patrick, Cory,.....	993A	Plunkett, Guy,.....	1018B		
Pattabiraman, Divya,.....	463B	Po, Michelle,.....	512C, 535B		
Patterson, Joseph R.,.....	846A*	Pocock, Roger,.....	458C, 467C, 470C, 481B, 498A, 987A		
Pauli, Sandra,.....	1135B	Podbilewicz, Benjamin,.....	48		
Paulini, Michael,.....	1239A*	Poggioli, Corey,.....	1106C		
Pavet, V.,.....	742B	Poh, Woon Cheng,.....	1065A*		
Pazdernik, Nannette,.....	851C	Pohl, Christian,.....	176*, 727B, 1120B		
Paz-Gomez, Daniel,.....	847B*	Pokrywka, Nancy J.,.....	581C		
Pedersen, Mikael Egebjerg,.....	481B*	Pollard, Daniel A.,.....	131*		
Peel, Nina,.....	59*	Polley, Stanley R.,.....	949B*		
Peeters, L.,.....	360A	Pollok, Robert H.,.....	372A*		
Peignelin, Betty,.....	1188A	Ponce, Melissa,.....	1110A*		
Peliti, Margherita,.....	660A*	Poon, Vivian Y.,.....	98		
Pellegrino, George,.....	1050A	Porscher, Latarsha,.....	629C		
Peng, C.-Y.,.....	308C	Porta-de-la-Riva, Montserrat,.....	917C, 950C*		
Peng, Hanchuan,.....	936A	Portegijs, Vincent,.....	1166C		
Pénigault, Jean-Baptiste,.....	127	Porter, Andrew,.....	517B, 530C		
Pepper, Judy S.,.....	567A*	Portman, D.,.....	473C		
Perlman, Benjamin,.....	593C				
Perrin, Andrew J.,.....	123				

Q

Qadota, Hiroshi,.....	1084B, 1085C, 1112C*, 1127C
Qin, Yuqi,.....	571B*
Qin, Zhao,.....	849A*
Quintin, S.,.....	1099B
Quintin, Sophie,.....	1113A*

R

Rabinowitch, Ithai,.....	105, 592B
Racher, Hilary E.,.....	824C
Rademakers, Suzanne,.....	1027B
Rae, Robbie,.....	150, 417A
Raghavan, Prashant,.....	22
Raharjo, Eko,.....	1105B
Raharjo, Wahyu,.....	181
Rahe, Dylan,.....	730B
Rahimi, Sina,.....	850B*, 858A
Raible, Monica,.....	629C
Raizen, D.,.....	139
Raizen, David M.,.....	527C, 665C*
Rajewsky, Nikolaus,.....	116
Ramakrishnan, Kalpana,.....	483A*
Raman, Mekala,.....	482C
Ramani, Arun,.....	900A, 1015B*, 1022C, 1175C
Ramírez, Jorge,.....	771A
Ramotar, Dindial,.....	311C*
Rand, Jim,.....	559B, 572C*, 573A*

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

88

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Sarkeshik, Ali,.....	1032A	Schwartz, Hillel,.....	412B*	Shih, Hung-Jen,.....	240A
Sarov, M.,.....	7	Schwartz Jr., Simó,.....	917C, 950C	Shimowada, Tomoyasu,.....	34
Sarov, Mihail S.,.....	112*	Schwarz, Erich,.....	179, 628B	Shin, Donghyuk,.....	1047A
Sarraf-Mamouri, Saeideh,.....	1110A	Schwarz, Erich M.,.....	189*	Shin, Heaji J.,.....	857C*
Sasagawa, Yohei,.....	297A, 1168B	Schweinsberg, Peter J.,.....	1030B	Shin, Hee Sun,.....	911C
Sasakura, Hiroyuki,.....	613B, 672A*	Sebkova, Katerina,.....	956C*	Shin, Hyo ju,.....	329C*
Sassa, Toshihiro,.....	673B*	S. Edison, Arthur,.....	1232C	Shin, Jennifer H.,.....	635C, 1227A
Satish, Shruthi,.....	410C*	Seetharaman, Ashwin,.....	488C*	Shin, Jiwon,.....	679B
Sato, Aya,.....	1162B*	Segalat, Laurent,.....	393A	Shingai, Ryuzo,.....	545C
Sato, Hirofumi,.....	639A, 674C*	Seidel, Hannah,.....	147*	Shirayama, M.,.....	51
Sato, N.,.....	617C	Selbach, Matthias,.....	116	Shirayama, Masaki,.....	205
Sattelle, David B.,.....	186	Selman, Guillermo,.....	488C	Shlyueva, Daria,.....	960A
Saudek, Vladimir,.....	943B, 945A	Selvaganapathy, P. Ravi,.....	669A	Shoenfeld, Julien,.....	375A*
Savage-Dunn, C.,.....	966A	Sem, Xiao-Hui,.....	413C*	Shorrock, M.,.....	957A*
Savage-Dunn, Cathy,.....	954A*	Semple, Jennifer I.,.....	1185A*	Shou-wei, Ding,.....	999A
Sawa, Hitoshi,.....	41*, 736B, 1070C	Senften, Mathias,.....	111	Shrestha, Shaleen,.....	117
Sawatari, E.,.....	675A*	Sengupta, Piali,.....	140, 195, 448B,	Shroff, Hari,.....	172*
Saxton, Daniel,.....	1042B	513A, 655B, 1025C, 1032A, 1078B		Siddiqui, Shahid,.....	538B
Scavarda, Emily,.....	1042B	Seo, Beomseok,.....	264A	Siddiqui, Shahid S.,.....	416C*
Schacht, Angela,.....	1111B	Seo, Mihwa,.....	276A	Sieburth, Derek,.....	579A, 588A
Schaedel, O.,.....	10*	Serrano, E.,.....	489A*	Sieburth, Derek S.,.....	521C
Schafer, William,.....	105, 690A	Sesar, Jillian,.....	414A*	Siedlak, S.,.....	784B
Schafer, William R.,.....	515C, 592B	Setiyaputra, Surya,.....	946B	Siegel, Dionicio,.....	93
Schanze, Kristin,.....	112	Setou, M.,.....	1049C	Siehr, M.,.....	473C
Schartner, Caitlin,.....	77	Settivari, Raja,.....	778B, 786A	Siggia, Eric,.....	705A
Schartner, Caitlin M.,.....	955B*	Setty, Yaki,.....	837A	Silva, Carlos,.....	771A*
Scheckel, Claudia,.....	871B	Severson, Aaron F.,.....	56*	Silva, Malan,.....	136, 490B*
Schedl, Tim,.....	107, 842C, 851C	Seydoux, Geraldine,.....	67, 844B, 868B, 869C	Silva-Garcia, Carlos G.,.....	758C
Scheuchner, Deborah,.....	358B	Shafaq-zadah, Massi,.....	66	Silverman, Gary A.,.....	760B
Schiavi, A.,.....	340B	Shah, L.,.....	21	Simard, Martin J.,.....	813A
Schiavi, Alfonso,.....	335C, 770C*	Shah, Mitalie,.....	15, 326C*	Simionato, E.,.....	772B*
Schierenberg, Einhard,.....	733B*, 734C*	Shah, Sitar,.....	854C*	Simmons, Alicia,.....	121
Schindler, Adam J.,.....	180	Shah, Vishal,.....	614C	Simon, Matt A.,.....	330A*
Schisa, Jennifer,.....	827C, 873A	Shaham, Shai,.....	38, 134, 401C,	Simonetta, Sergio H.,.....	1198B*
Schisa, Jennifer A.,.....	846A	462A, 634B, 660A, 688B, 756A		Simske, Jeffrey,.....	1111B
Schloissnig, Siegfried,.....	107, 112	Shakes, Diane C.,.....	855A*, 1154C, 1249B*	Simske, Jeffrey S.,.....	376B*
Schlotterer, Andreas,.....	310B	Shanehsaz, Bahareh,.....	993A*	Sinclair, David,.....	251C
Schmid, Tobias,.....	735A*	Shao, Zhiyong,.....	101	Sinclair, Gary,.....	778B, 786A
Schmidt, Enrico,.....	1098A	Shapira, Michael,.....	337B, 415B*	Sinclair, Jason,.....	958B*
Schmidt, K. L.,.....	487B	Shapiro, Joshua A.,.....	190	Singaravelu, Gunasekaran,.....	366A, 840A, 858A*
Schmitt, Cornelia,.....	576A*	Sharma, Madhu,.....	812C	Singaravelu, Gunasekaran,.....	850B
Schneider, Daniel L.,.....	371C	Sharma, R.,.....	51	Singh, Komudi,.....	578C, 595B,
Schneider, Franziska,.....	1223C	Sharpee, Tatyana,.....	604B	677C*, 678A*	
Schneider, Jennifer,.....	1163C	Shaw, Reuben,.....	25	Singh, Sharda P.,.....	331B*
Schoeler, Lone,.....	27	Shaye, Daniel,.....	1220C*	Singh, Varsha,.....	151*, 422C
Scholer, Lone V.,.....	411A*	She, Xingyu,.....	1183B	Singhvi, Aakanksha,.....	1072B
Schoofs, L.,.....	360A	Sheffy Levin, S.,.....	327A*	Singson, A.,.....	341C
Schoofs, Liliane,.....	543A, 594A, 683C	Shelton, Keith,.....	590C	Singson, Andrew,.....	840A, 850B, 858A
Schott, Daniel H.,.....	20*	Shelton, Keith L.,.....	597A	Sinha, Amit,.....	417A*
Schröder, V.,.....	257C	Shen, Haihong,.....	1047A	Skibinski, Gregory A.,.....	332C*
Schroeder, F.,.....	884C	Shen, Kang,.....	98, 102, 171, 1187C	Skirkanich, Jennifer,.....	333A*
Schroeder, Frank,.....	30, 79, 89, 628B,	Shen, Q.,.....	165*	Skorobogata, Olga,.....	1066B
.....1205C, 1207B, 1208C, 1212A		Shen, Y.,.....	856B*	Slack, C.,.....	88
Schroeder, Frank C.,.....	90, 655B	Shen, Yanqing,.....	1065A	Slack, Frank,.....	82, 723A, 789A, 978A
Schroeder, Nathan E.,.....	434C	Shen, Zi Yin,.....	226B	Slack, Frank J.,.....	1016C
Schubert, Mario,.....	420A	Shendure, Jay,.....	5	Slaunwhite, Erin,.....	1243B
Schulenburg, H.,.....	405A	Sheng, Ming,.....	374C*	Smak, Jordann A.,.....	418B*
Schulenburg, Hinrich,.....	132, 886B, 897A*	Shephard, Freya,.....	106	Smith, C.,.....	139
Schulman, Monty,.....	107	Sherlekar, A.,.....	473C	Smith, D.,.....	709B
Schulte, Rebecca,.....	132	Sherlekar, Amrita,.....	649B, 676B*	Smith, Harold E.,.....	855A, 898B, 1019C*
Schultz, Robbie D.,.....	1115C*	Sherwood, David,.....	1124C	Smith, Joseph R.,.....	120*
Schulze, Ekkehard,.....	318A	Sherwood, David R.,.....	180, 1103C	Smith, M.,.....	784B
Schulze, Jens,.....	733B, 734C	Sheth, Ujwal,.....	14	Smith, Majro V.,.....	225A
Schumacher, Bjoern,.....	1163C*	Shi, Anbing,.....	1030B	Smith, Sherri,.....	728C
Schumacher, Jill M.,.....	1137A, 1138B	Shi, Yeu Ching,.....	328B*	Smith-Vikos, Thalyana,.....	82
Schuske, Kim,.....	100	Shi, Zhen,.....	994B*, 997B	Smolikove, Sarit,.....	1130C
Schuster, Eugene,.....	336A	Shibata, Jeffrey,.....	627A, 1233A	Snieckute, Goda,.....	481B
Schwarzstein, Mara,.....	61*	Shibata, Yukimasa,.....	736B*	Snoek, B.,.....	405A

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Snyder, Daniel W., 600A
 Snyder, Floyd, 358B
 Snyder, Martha J., 191
 Snyder, Michael, 112
 Soltesz, Z., 577B*
 Somasiri, Aruna, 1125A
 Somhegyi, Hannah, 1041A
 Sommer, Ralf, 891A
 Sommer, Ralf J., 128*, 150,
 417A, 518C, 890C
 Sommer, R. J., 47
 Somvanshi, Rishi, 89
 Song, Anren, 832B
 Song, B., 35*
 Song, Hyun-Ok, 632C
 Song, Sam, 610B
 Song, Song, 507A
 Sontag, Eduardo, 1201B
 Sorkac, Altar, 678A
 Sorkaç, Altar, 578C*
 Sorokin, Elena P., 859B*
 Soto, M., 51
 Soto, Martha, 1064C, 1086A
 Soto, Martha C., 174
 Spencer, W. Clay, 103, 836C, 1016C
 Spengler, Justin W., 381A
 Spieth, John, 1003B
 Spike, Caroline, 119, 829B
 Spike, Caroline A., 50
 Spiro, Simon, 395C
 Spooner, Patrick, 1061C
 Sprando, Robert L., 259B
 Srayko, M., 1096B
 Srayko, Martin, 1069B*, 1102B
 Srinivasan, Chandra, 220B
 Srinivasan, Jagan, 30*, 1212A
 Srinivasan, Supriya, 355B, 370B
 Staab, Trisha, 579A*
 Stamford, Joanne, 860C*
 Stamper, Erica, 1164A*
 Stanfield, Gillian, 120, 861A*
 Starich, Todd, 119
 Starostina, Natalia G., 62*
 Starr, Daniel, 107
 Starr, Daniel A., 1088C, 1116A*
 Stavoe, Andrea K., 491C*
 Stefanakis, Nikolaos, 492A*
 Stegeman, Gregory, 679B*
 Steimel, Andreas, 465A
 Stein, A., 626C
 Stein, Geneva M., 680C*
 Steiner, Florian A., 1203A*
 Stephney, T., 1217C
 Sternberg, P., 10
 Sternberg, Paul, 3, 30, 97, 143, 179,
 198, 412B, 628B, 907B, 931B,
 1059A, 1202C, 1212A
 Sternberg, Paul W., 8, 33, 188,
 396A, 1215A, 1240B
 Sternberg, P. W., 884C
 Stetak, Attila, 178, 580B*, 1165B*
 Steuer Costa, Wagner, 103
 Steven, Robert, 1105B, 1121C
 Stevenson, ZC, 7
 Stewart, Francis, 112
 Stiernagle, Theresa, 2
 Stiffler, Nick, 1181C
 Stillman, Bruce, 74

Stinson, Pilar, 547B
 Stirman, Jeffrey, 1199C
 Stirman, Jeffrey N., 103, 542C, 1187C, 1223C
 Stock, Tyson, 1111B
 Stoeckius, Marlon, 116*
 Stoll, Kate, 292B
 Stolzenburg, Lindsay, 236C, 322B
 Stone, Craig, 696A
 Storer, Luke, 1106C
 Stormo, G. D., 154
 Stothard, Paul, 819A
 Strasbourger, Pnina, 5
 Stringham, E. G., 487B
 Stringham, Eve, 1117B*
 Strittmatter, Stephen, 516A
 Strome, Susan, 50, 124, 192, 825A,
 1005A, 1204B*
 Stroud, Dave, 152, 186, 395C
 Stroustrup, Nicholas, 334B*
 Struckhoff, Eric C., 493B*
 Stupp, Gregory, 419C*
 Sturm, Joshua, 581C
 Sturzenbaum, Stephen, 923C, 953C
 Stutz, Katrin, 420A*
 Su, Anna, 435A
 Su, L., 1191A
 Su, Po-An, 19
 Suárez-López, Lucia, 950C
 Subash, Jacob, 823B
 Subasic, Deni, 773C*
 Subramaniam, Kuppuswamy, 806C, 864A
 Suchanek, Monika, 24*
 Suetens, N., 360A
 Sugi, Takuma, 657A, 681A*
 Sugimoto, A., 872C
 Sugimoto, Asako, 68*, 737C, 1162B
 Sugioka, Kenji, 1070C*
 Suh, Jinkyoo, 465A
 Sullivan-Wilson, Alexander, 1111B
 Sumiyoshi, Eisuke, 737C*
 Summer, Rachel, 738A
 Summers, Stephanie, 547B
 Sun, Chun-Ling, 421B*
 Sun, Jingru, 151, 422C*
 Sun, Lin, 454B
 Sun, Xiaojuan, 1056A, 1071A*
 Sundaram, Meera, 43, 696A, 1106C
 Sundararajan, Lakshmi, 494C*
 Sung, Hyun, 1047A
 Susman, Kathleen M., 581C*
 Suzuki, H., 1191A
 Suzuki, Hiroshi, 19, 582A*
 Suzuki, Keita, 672A
 Suzuki, Michiyo, 682B*
 Swathi, Arur, 107
 Swenke, Susanne, 301B
 Swierczek, Nicholas A., 620C
 Swoboda, P., 959C*
 Swoboda, Peter, 136
 Sykes, Sean, 1018B
 Sylvain, Marc-André, 1074A
 Sylvestre, Laurence, 876A
 Sze, J., 504A, 583B*
 Sze, Ji Ying, 546A
 Szewczyk, Nate, 106*, 423A*
 Szumowski, Suzy, 424B*

T

Tabman, Brandon, 876A
 Tabuchi, Tomoko M., 115
 Tagawa, T., 694B
 Takacs-Vellai, Krisztina, 1118C*
 Takahashi, Sachiko, 737C
 Takahashi, Yuta, 17*, 377C
 Takano, S., 324A
 Takayama, J., 862B*
 Takeshita, Hisako, 41
 Talavera, Karla, 1072B
 Talwar, A., 21
 Tamai, K., 1099B
 Tamiya, Hiroko, 17, 377C*
 Tamura, A., 1128A
 Tan, Man-Wah, 399A
 Tan, Melinda S.-Y., 946B
 Tan, Patrick, 413C
 Tanaka, T., 1128A
 Tang, Anji, 522A
 Tang, Lois, 960A*
 Tanis, Jessica E., 425C*, 584C*
 Tank, Elizabeth, 84*
 Tapley, Erin, 1116A
 Tappen, Tara, 738A*
 Tarailo-Graovac, Maja, 910B, 1021B
 Taubert, Stefan, 465A, 920C, 940B
 Tauflenberg, Arnaud, 427B
 Tavernarakis, N., 340B
 Tavernarakis, Nektarios, 215C, 291A,
 757B, 770C, 775B
 Taylor, Ashley, 661B
 Taylor, J., 7
 Taylor, Jon, 5
 Taylor, Larry, 942A
 Tecle, Eillen, 495A*
 Tedesco, Pat, 942A
 Teegala, Sushma, 954A
 Tehrani, Nazila, 774A*
 Teichgraber, Tina, 112
 Temmerman, L., 360A
 Temmerman, Liesbet, 543A, 594A, 683C*
 Teng, Yanling, 938C
 Teotónio, H., 883B
 Teramoto, T., 675A
 Terasawa, A., 893C, 899C
 Terasawa, Masahiro, 68
 Testi, R., 340B
 Testi, Roberto, 335C, 770C
 Tetreault, Breanna, 468A
 Tetsuhiro, Kikuchi, 1119A*
 Teuliere, Jerome, 1072B*
 Thanisch, Stefanie, 132
 Tharmalingam, Suji, 603A
 Thatcher, Elizabeth J., 995C*
 Thatcher, Scott, 718B
 Thierfelder, Nadine, 116
 Thierry-Mieg, Danielle, 911C
 Thierry-Mieg, Jean, 911C
 Thillainathan, Bavithra, 729A
 Thomas, Carin, 284C
 Thomas, Cristel G., 898B*
 Thomas, James H., 561A
 Thomas, Laura, 1042B
 Thompson, Owen, 5
 Thompson-Peer, Katherine L., 496B*

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

- Thomson, Valeri J., 462A
 Thyagarajan, Bargavi, 378A*
 Thyagarajan, Baskaran, 684A*
 Tian, H., 47
 Tilleman, L., 817B
 Timbers, Tiffany A., 685B*
 Timmermeyer, Nadine, 132
 Tinney, Matthew, 112
 Tiongson, Michael G., 1120B*
 Tishkoff, Daniel X., 81
 Tissenbaum, Heidi, 113, 123, 301B, 350C
 Tissenbaum, Heidi A., 221C
 Tohsato, Y., 893C, 899C*
 Tolen, Lana, 614C
 Tomioka, Masahiro, 141
 Tong, Yong-Guang, 701C
 Topalidou, Irini, 497C*
 Topper, S., 686C*
 Topper, Stephen, 93
 Torgovnick, A., 340B
 Torgovnick, Alessandro, 335C*, 770C
 Torpe, Nanna, 498A*
 Toth, Marton, 21*
 Toulabi, Leila, 713C
 Tourette, Cendrine, 301B
 Towbin, Benjamin, 118
 Toya, Mika, 68
 Tramm, N., 598B
 Tran, Thuy, 1121C*
 Treinin, Millet, 103
 Tringe, Susannah, 415B
 Trinh, Joanne, 910B
 Trinidad, J., 237A
 Troemel, Emily, 424B
 Troemel, Emily R., 156, 402A, 426A*
 Troemel, E. R., 157
 Trojanowski, N., 139
 Troulinaki, Kostoula, 775B*
 Truong, K., 1191A
 Trzepacz, Chris, 863C*
 Tsai, Linda, 337B
 Tsuchiya, Jun-ichi, 967B
 Tsuda, H., 750A
 Tsuji, Toshio, 682B
 Tsukada, Yuki, 34*, 659C
 Tsur, A., 1122A*
 Tu, D., 1176A
 Tu, D. K., 453A
 Tu, Domena, 910B, 1002A
 Tucci, Michelle L., 776C*
 Tuck, Simon, 374C, 835B
 Tuckwell, Danny, 891A
 Tudor, Danny, 1231B
 Tulgren, E., 499B*
 Tulgren, E. D., 459A
 Tullet, Jennifer M. A., 336A*
 Turnbull, Doug, 1181C
 Turner, Emily H., 5
 Tursun, Baris, 730B
 Twumasi-Boateng, Kwame, 337B*
 Tzur, Yonatan B., 54*
- U
 Uenk, Jana, 734C
 Ugozzoli, Luis, 1180B
 Ulmschneider, Bryne, 661B
- Ulmschneider, Kiri, 661B
 Umuerr, Oluwatoroti, 585A*, 687A*
 Uno, Masaharu, 261A, 338C*
 Upadhyay, Ambuj, 876A
 Updike, Dustin, 124*
 Updike, Dustin L., 703B
 Urbanus, Malene L., 368C
 Urnov, Fyodor, 77
 Usami, A., 1189B
 Ushiro, M., 1128A
 Uyar, Bora, 910B
 Uzawa, S., 915A
 Uzawa, Satoru, 211
- V
 Vaccaro, Alexandra, 427B*
 Vadla, Bhaskar, 787B
 Vaid, Samir, 864A*
 Valansi, Clari, 48
 Valbuena, Gabriel, 1206A
 Vallejo, Diana M., 108
 Vallier, Laura G., 865B*
 Valmas, Nicholas J., 777A*
 Valmas, Nick, 1221A
 van Bostelen, Ivo, 54
 Van Buskirk, Cheryl, 8, 907B
 Van Buskirk, Cheryl L., 33*
 van den Heuvel, Sander, 71, 1166C*
 van der Linden, Alexander, 1025C
 van der Spek, Hans, 238B
 VanDuyn, Natalia, 778B*, 786A
 Vanfleteren, J. R., 817B
 Van Gilst, Marc, 146, 354A, 378A
 Van Gilst, Marc R., 303A
 VanHoven, Miri, 437C, 438A, 482C, 503C
 Vanneste, Christopher A., 1105B
 Van Nostrand, Eric, 1020A*
 van Oudenaarden, Alexander, 212, 707C, 739B
 Vantipalli, Maithili C., 214B
 Van Voorhies, Wayne, 146
 van Zon, Jeroen S., 739B*
 Varshney, Aruna, 438A
 Vashlishan Murray, Amy, 570A
 Vashlishan Murray, Amy B., 586B*
 Vasilescu, Dan, 1193C
 Vasquez-Manrique, Rafael, 301B
 Vasquez-Rifo, Alejandro, 813A
 Vaucamps, N., 742B
 Vazquez-manrique, Rafael, 300A
 Veal, Elizabeth, 860C
 Veal, Elizabeth A., 339A*
 Vellai, Tibor, 1118C
 Ventura, N., 340B*
 Ventura, Natascia, 335C, 770C
 Verbrugghe, Koen J. C., 58
 Vergara, Ismael A., 1021B*
 Vermeulen, Wim, 271B
 Vernet, Rémi, 1188A
 Verster, Adrian, 900A*
 Vert, Jean-Philippe, 1219B
 Via, Zachary, 713C
 Vibbert, J., 750A, 815C
 Vidal-Gadea, A., 686C
 Vidal-Gadea, Andrés G., 93*
 Vidal Iglesias, Berta, 500C*
- Vielle, Anne, 192
 Vigne, Paul, 826B
 Vijay, P., 341C*
 Villanueva, Alberto, 917C
 Villeneuve, A. M., 1171B
 Villeneuve, Anne, 61, 1160C, 1170A
 Villeneuve, Anne M., 63
 Vinayavekhin, Nawaporn, 387A
 Vinis, Elizabeth, 112
 Virk, Bhupinder, 379B*
 Visanuvimol, J., 440C
 Vissicelli, Nicole, 1091C
 Visvikis, O., 154*
 Visvikis, Orane, 187
 Vitelli, Cathy, 12
 Viveiros, Ryan D., 1123B*
 Viviano, Jeffrey, 878C
 Voegtlin, Thomas, 587C*
 Vogler, Christian, 580B
 Von Reuss, H., 884C
 von Reuss, Stephan, 30, 1212A*, 1232C
 von Tobel, Lukas, 866C*
 Vora, Mehul, 15*, 326C
 Vrablik, Tracy L., 380C*
 Vu, Victoria, 1022C*
 Vukojevic, Vanja, 580B
 Vuong, Edward, 1251A*
- W
 Waaijers, Selma, 1023A
 Wabnig, Sebastian, 1199C*
 Wagner, Florian, 714A, 961B*
 Wagner, Jamie, 661B
 Wählby, Carolina, 187*, 398C
 Walhout, A. J. Marian, 1009B
 Walhout, Albertha J. M., 115, 117
 Walhout, Marian, 113
 Walker, Amy K., 145*
 Wallace, Iain M., 368C
 Wallace, Sean W., 688B*
 Walsh, Melissa, 779C*
 Walston, Timothy D., 718B, 1250C*
 Walstrom, Katherine M., 381A*
 Walton, Travis, 1041A, 1195B
 Wang, Angela R., 81
 Wang, Chris, 867A*
 Wang, D., 13
 Wang, David, 392C
 Wang, George J., 1187C
 Wang, Guilin, 1016C
 Wang, Han, 588A*
 Wang, Jennifer T., 868B*
 Wang, Jianjun, 689C*
 Wang, Jinbo, 501A*
 Wang, Juan, 993A, 1073C*, 1172C
 Wang, Jun, 910B, 1021B
 Wang, Lei, 1183B
 Wang, Peng, 780A*
 Wang, Qinghua, 3
 Wang, Shaohe, 107
 Wang, Tim, 337B
 Wang, Wenchao, 50, 825A
 Wang, Wenqing, 342A*, 380C
 Wang, X., 589B, 962C*
 Wang, Xiaochen, 1033B, 1034C, 1081B
 Wang, Xiaolin A., 1074A*

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Wang, Y.,..... 26*, 165, 531A, 548C, 1211C
Wang, Ying,..... 38, 233C, 444A, 1015B
Wang, Yuemeng,..... 869C*
Wang, Zheng,..... 1124C*
Wang, Zhiping,..... 137
Wanner, Nicola,..... 477A
Wannissorn, Nattha,..... 740C*
Warburton-Pitt, Simon RF,..... 502B*
Ward, Jordan D.,..... 45*
Warner, Adam D.,..... 1084B, 1125A*
Warren, Kaila,..... 1042B
Watanabe, S.,..... 541B

Watanabe, Shigeki,..... 100, 104*, 173*,
..... 556B, 573A
Waterston, Robert, S, 112, 700B, 902C, 936A
Waterston, Robert H.,..... 1016C
Watson, Joseph D.,..... 103
Watts, Jennifer,..... 343B*
Watts, Jennifer L.,..... 145
Weber, Darren,..... 12
Weber, Katherine P.,..... 1186B*
Webster, Christopher,..... 343B
Wehman, Ann M.,..... 73*
Wei, Qing,..... 344C*, 430B, 1054B,
..... 1075B*, 1076C*
Wei, Xing,..... 171*
Weick, E.-M.,..... 996A*
Weick, Eva-Maria,..... 196
Weimer, Robby,..... 748B
Weinkove, David,..... 379B
Weis, Allison M.,..... 1042B
Weitz, David,..... 635C
Wells, Michael B.,..... 191*
Wen, Quan,..... 92, 522A, 690A*
Wender, Nora,..... 781B*
Weng, Zhiping,..... 117
Werre, Brittany,..... 803C
Westhof, Eric,..... 111
Wetsel, William,..... 689C
Wetzel, Arthur,..... 1200A*
Wever, Claudia M.,..... 691B*
Wheeler, Bayly,..... 963A*
Whitaker, Sarah,..... 511B
White, A.,..... 979B
White, Amelia,..... 1013C
White, Amelia G.,..... 1201B*
White, Ana M.,..... 964B*
White, Corin,..... 428C*
White, Judith,..... 48
White, Keith N.,..... 307B
White, Theresa,..... 528A
Whiteside, M. D.,..... 453A
Whitesides, George,..... 690A
Whittle, Christina M.,..... 1167A*
Wickramasekara, Rochelle,..... 519A
Widom, Jonathan,..... 1014A
Wiesenfahrt, Tobias,..... 965C*
Wightman, Bruce,..... 593C, 738A
Wildwater, Marjolein,..... 71*
Wilhelm, Larry,..... 875C
Williams, Ashley B.,..... 870A*
Williams, Brian,..... 931B
Williams, Corey L.,..... 164
Williams, Dean,..... 252A
Williams, Gary,..... 1003B
Williams, Kyle C.,..... 1126B*

Williams, Margaret,..... 1050A
Williams, Travis W.,..... 87
Willis, John H.,..... 345A*
Wilson, Kristy J.,..... 1085C, 1127C*
Wincott, Charlotte M.,..... 597A
Winek, Jessica L.,..... 1077A*
Winter, Peter,..... 319B
Winters, Elliot,..... 930A
Wojtyniak, Martin,..... 1078B*
Wold, Barbara,..... 931B
Wolff, Jennifer Ross,..... 468A
Wolkow, C. A.,..... 1217C
Wollam, J.,..... 90
Wollam, Joshua,..... 285A, 1205C
Wong, C. K. H.,..... 704C
Wong, JHT,..... 908C
Wong, S.,..... 1191A
Wong, Tammy,..... 715B
Wongwiwatthanakut, Supakit,..... 1231B
Wood, Andrew,..... 77
Wood, Jordan,..... 692C*
Wood, Megan P.,..... 846A
Wood, Michael L.,..... 782C*
Woollard, Alison,..... 277B, 697B, 717A, 789A
WormBase Consortium,..... 1003B
WormBase Consortium, The,..... 4
Wright, C.,..... 598B
Wright, Jane E.,..... 111*, 871B*
W. Sternberg, Paul,..... 1232C
Wu, Allison,..... 741A*
Wu, Ching-Ming,..... 388B
Wu, G.,..... 13
Wu, Guang,..... 392C
Wu, Jui-ching,..... 901B*
Wu, Jui-Ching,..... 1036B, 1134A
Wu, Lianqun,..... 337B
Wu, T.,..... 957A
Wu, Tammy,..... 901B
Wu, Xiaoyun,..... 997B*
Wu, Yi-Chun,..... 1097C
Wu, Yicong,..... 172
Wu, Zilu,..... 137
Wung, William,..... 503C*
Wyart, Matthieu,..... 690A
Wyatt, B.,..... 47
Wynne, D. J.,..... 1159B

X

Xia, N.,..... 947C
Xiang, Zheng,..... 1183B
Xiao, Hui,..... 1071A
Xiao, Xiao,..... 306A
Xie, Lin,..... 535B
Xie, Meng,..... 382B*
Xie, Y.,..... 504A*, 583B
Xiong, Ge,..... 1084B
Xiong, Huajiang,..... 174*
Xiong, S.,..... 966A*
Xu, H.,..... 1213B
Xu, Jing,..... 685B, 1071A
Xu, M.,..... 531A, 548C, 1217C
Xu, Meng,..... 1200A
Xu, Ningyi,..... 369A
Xu, Shawn,..... 101, 615A, 648A
Xu, Suhong,..... 148*
Xu, T.,..... 589B*

Xu, W.,..... 76
Xu, Xiao,..... 346B*
Xu, X. Z. Shawn,..... 663A
Xu, Yifan,..... 28, 549A
Xue, D.,..... 947C
Xue, Jian,..... 351A

Y

Yaghoobian, Jonathan,..... 627A
Yamada, Koji,..... 967B*
Yamakawa, A.,..... 1128A*
Yamamoto, Keith R.,..... 45
Yamamoto, Yuko,..... 41
Yamanaka, Kunitoshi,..... 297A, 1168B*
Yamazoe, Akiko,..... 693A*
Yan, Bo,..... 1169C*
Yan, Dong,..... 137
Yan, Xiaohui,..... 783A*
Yan, Z.,..... 157
Yanai, Itai,..... 20, 110, 714A, 800C, 961B
Yanase, Sumino,..... 347C*
Yang, Bo,..... 81
Yang, Chen,..... 416C
Yang, Chonglin,..... 1071A
Yang, Huan,..... 998C*
Yang, Jae-Seong,..... 276A
Yang, Ji-Sup,..... 798A, 922B
Yang, Jiong,..... 615A
Yang, Wen,..... 348A*
Yang, X.,..... 76*
Yang, Xiaoming,..... 311C
Yang, Y.,..... 750A
Yang, YueHong,..... 927A
Yang, Z.,..... 26
Yanik, Mehmet Fatih,..... 1196C, 1224A
Yanowitz, Judith,..... 1153B
Yasuda, Kayo,..... 17
Yasukawa, Patrick,..... 1231B
Yates, John,..... 985B
Yates III, John,..... 207
Yates III, John R.,..... 1032A
Yawo, Hiromu,..... 1228B
Yazaki, Koumei,..... 347C
Ye, Alice Y.,..... 349B*
Ye, Anna,..... 1079C*
Ye, Qi,..... 321A
Yee, Laura,..... 505B*
Yee, Lisa,..... 143
Yeh, A.,..... 295B
Yen, Kelvin,..... 123, 221C, 350C*
Yeola, Shrutika,..... 754B
Yilma, Petr,..... 945A, 956C
Yilma, Zelealem,..... 1111B
Yin, Jianghua,..... 954A
Yochem, John,..... 72, 1136C, 1152A, 1181C
Yoder, Bradley K.,..... 164
Yohannes, Lensa,..... 1111B
Yokomori, Nagaharu,..... 852A
Yokoo, Rayka,..... 63, 1170A
Yokoyama, Atsuko,..... 17
Yonetani, M.,..... 872C*
Yoshida, K.,..... 694B*
Yoshida, Y.,..... 1189B
Yoshimitsu, Shoko,..... 1235C
Yoshimura, Hiroyuki,..... 261A
Yoshina, Sawako,..... 1179A

Author Index

The number following an author's name refers to the abstract program number. A, B, or C following a number indicates a poster. The presenting author is noted with an asterisk.

Yost, Richard,.....	1234B	Zhao, D.,.....	26
You, Young-Jai,	275C	Zhao, G.,.....	13
You, Young-jai,.....	618A	Zhao, Pei,	968C*
Youdell, Michael L.,	186	Zhao, Zhongying,	902C*
Young, J.,.....	979B	Zhen, Mei, ..444A, 501A, 512C, 535B, 1015B	
Young, Jared,.....	547B, 623C	Zheng, Grace,.....	977C
Young, L.,.....	686C	Zheng, Maohua,	1230A*
Young, Layla,.....	93	Zhihuan, Gao,.....	999A
Young, Sarah,.....	1018B	Zhong, Jing,.....	999A*
Yu, Bin,	123	Zhong, Weiwei,.....	1008A
Yu, Eunjeong,.....	1150B	Zhou, Shaoyu,	786A*
Yu, Fabian P. S.,.....	506C*	Zhou, Yuan,.....	509C*
Yu, Ivan,	283B	Zhou, Z.,.....	165
Yu, S.,.....	26	Zhu, Huihui,	969A*
Yu, Simon,.....	351A*	Zhu, Lihua J.,	115
Yu, Szi-Chieh,.....	550B	Zhu, X.,	784B
Yu, Yawei,.....	40	Zhuang, Jiali,.....	117
Yu, Z.,.....	26	Zimmerman, Anna,	79
Yuan, Q.,	947C	Zimmerman, Stephanie M.,	352B*
Yuan, Y.,	784B*, 1213B*	Zimniak, Ludwika,.....	331B
Yuen, Grace,.....	387A	Zimniak, Piotr,	331B
Yuen, Grace J.,.....	429A*	Zinke, Andrea,.....	112
Yukimasa, Shibata,.....	1119A	Zinovyeva, Anna Y.,.....	193*
Yzeiraj, Edlira,	954A	Zisoulis, Dimitrios,	197*
		Zniber, Ilyass,.....	1000B*
		Zou, Wei,.....	1081B*
		Zucker, David,.....	216A
		Zucker, David J. S.,.....	214B
		Zuckerman, Jennifer A.,.....	134*
		Zuryn, S.,.....	742B*
Z			
Zakaria, Chadi,	311C		
Zand, Tanya,.....	75		
Zand, Tanya P.,	726A		
Zanetti, Michael R.,.....	383C*		
Zanin, Esther,	57*		
Zapf, Richard,.....	465A		
Zarkower, David,.....	811B, 836C		
Zaroli, Johann,.....	503C		
Zaslaver, Alon,	97, 143*		
Zastrow, M.,.....	1171B		
Zawadzki, Karl,.....	1170A*		
Zeev-Ben-Mordehai, Tzviya,	48		
Zeigler, Mark T.,	873A*		
Zeitler, Bryan,	77		
Zeller, Georg,	1016C		
Zeng, Sheng,.....	785C*		
Zetka, Monique,	813A, 832B		
Zhai, Yufeng,.....	1004C		
Zhang, Bing,.....	511B		
Zhang, Bo,	507A*		
Zhang, Donglei,.....	1030B, 1080A*		
Zhang, Feifan,	508B*		
Zhang, Hongjie,.....	183		
Zhang, Jun,	416C, 538B		
Zhang, Kelly,.....	1225B		
Zhang, Lei,	77		
Zhang, Liusuo,.....	805B*		
Zhang, Qing,.....	430B*		
Zhang, S.,.....	487B		
Zhang, Shaobing,.....	369A		
Zhang, Shijie,	615A		
Zhang, Weibin,	1171B*		
Zhang, Wenying,	754B		
Zhangl, Xiao-Dong,.....	40		
Zhang, Xiaodong,.....	32*, 571B		
Zhang, Xin Min,.....	226B		
Zhang, Y.,.....	670B		
Zhang, Yun,.....	31, 32, 142, 571B		
Zhang, Yuxia,	430B, 695C*, 1054B, 1075B		
Zhang-Akiyama, Qiu-Mei,	263C, 293C, 323C		

Gene Index to Abstracts

This is an index of genes mentioned in the abstracts. The current WormBase approved gene symbol is given in each case; non-current symbol synonyms or full names used in the abstracts are not indexed. The index was prepared computationally based solely on the WBgn & gene symbol information provided by authors during abstract submission. GSA is not responsible for any omissions from the index where authors did not provide information, nor for any incorrect indexing where genes stated to feature in an abstract do not actually appear.

Indexed terms are in **bold**. Numbers following each term refer to abstract program numbers: 1--212 are platform presentations and 213-1251 are poster presentations.

aak-1792A	ain-1 255A	apx-1 739B
aak-2 . 25, 88, 243A, 247B, 376B, 792A	air-168, 1096B	aqp-1 273A
aakb-1 376B	air-255, 1096B, 1168B	ari-1 109
abi-1 487B, 555A	AIR-21138B	arx-2 759A
abl-1 460B, 772B	akt-1 87, 123, 240A, 243A, 250B, 350C, 639A	arx-4 493B
abts-1537A	akt-287, 96, 250B, 350C	asd-1 932C
abu422C	Alg-1995C	ash-2 756A
acbp-1357A	alg-1 71, 193, 197, 211, 431C, 813A, 971C, 978A	asna-1361B, 362C
acbp-2/ech-4357A	Alg-2995C	asp-1 324A
acbp-3357A	alg-2 211, 255A, 813A	ast-1 159, 473C
acbp-4357A	alg-3 207	atat-2 182
acbp-5357A	alg-4 207	atf-6 167
acbp-6357A	alh-1590C	atf-7 250B, 408A
acc-1 691B	alh-13590C	atg-1340B, 770C
acc-2 691B	alh-2590C	atl-1 239C
acc-3 691B	alh-3590C	B0286.1 20
ace-2 160	alh-5590C	bar-1 47, 735A
acl-101044A	alh-6590C	bbs 367B
acn-1 723A	alh-7590C	bbs-1 1075B
acox-11212A	alh-8590C	bbs-2 910B
acr-12569C	alr-1497C	bec-1 340B, 770C, 809C, 1063B
acr-16 556B, 558A	am117 267A	bed-3 926C
acr-2 160	ama-1191, 700B	ben-1 892B
acs-1 538B	amx-1 528A	bet-1 736B
acs-2 538B	amx-2 528A	bicd-1 1116A
act-1 769B	amx-3 528A	blmp-1740C, 798A, 926C
ACT-5426A	ani-1 1092A, 1104A	brap-2258A
acy-1 598B, 680C	ani-2 1104A	brc-1 1008A
acy-4 119	ani-3 1104A	brd-1 335C, 1008A
add-1580B	apg-1 66	bre-1 420A
adr-1992C	apl-1 614C, 767C, 904B, 968C	bro-1 717A, 789A
adr-2992C	apm-1 66	bus-10 407C
aff-148	apm-2 573A	bus-17 745B
age-1 37, 337B, 350C, 639A, 774A, 1163C	apn-1263C	bus-5 186
age-1(am88)267A	app-1 1131A	bus-8 186
agef-11066B	apr-11070C, 1165B	C05C8.6 611C
agl-1376B	aps-1 66	C09G5.8 164
ags-3551C		C11D9.1 163
		C35D10.2 776C

Gene Index to Abstracts

C37H5.6 964B
C39E6.6 405A
cacn-1 1087B, 1100C
cad-1 23
cam-1 41, 181, 480A, 486A, 507A,
 1045B, 1059A, 1107A
capg-1 55, 191
car-1 758C
easy-1 141
cat-1 472B
cat-2 19, 604B
catp-3 657A
CBG02702 557C
cbr-fem-1 819A
cbr-fem-2 819A
cbr-fem-3 819A
cbr-tra-2 819A
ccb-1 631B
ccb-2 631B
cepp-1 136
cepp-6 1049C
cde-14 1161A
cde-42 163, 432A, 493B, 1029A
cde-48.1 297A, 315A, 1168B
cde-48.2 297A, 315A, 1168B
cdf-2 70
cdh-3 180, 738A
cdk-1 51, 807A, 842C
cdk-2 1135B
cdk-5 98, 101, 169, 556B
cdk-7 191
cdk-8 465A, 920C
cdk-9 191
cdka-1 98
cdr-1 249A
ced-1 167, 422C
ced-10 163, 478B, 491C, 1045B, 1074A
ced-2 167
ced-3 135, 574B, 763B, 768A, 1142C
ced-4 574B, 763B, 768A,
 832B, 913B, 918A
ced-5 491C
ced-9 758C, 768A
ceh-10 170
ceh-14 457B, 928B
ceh-17 139
ceh-20 159, 717A

ceh-23 228A
ceh-26 701C
ceh-27 1094C
ceh-28 483A
ceh-36 74, 138
ceh-37 701C
ceh-39 78
ceh-43 159, 473C
ceh-5 960A
ceh-6 696A
cep-1 123, 335C, 340B, 770C, 1153B
cey-2 758C
cfz-2 41, 480A, 507A
cgef-1 1029A
cgh-1 758C, 871B, 971C
CGH-1 812C
chc-1 66, 556B
chd-7 732A
che-1 730B
che-3 88
chk-1 870A
chn-1 315A
cho-1 160
chw-1 432A
cic-1 465A, 920C
cki-1 62, 789A, 1150B
cki-2 1135B
ckk-1 685B
ckl-1 312A
ckr-2 360A, 570A
cks-1 842C
cku-80 239C
clec-50 400B
clh-4 701C
clk-1 85
clr-1 516A, 750A
cmd-1 684A
cmk-1 685B
CNG-1 40
CNG-3 40
cnt-2 1072B
coel-1 453A
cog-1 985B
coh-3 54
coh-4 54
col-141 954A
col-41 954A

cosa-1 63
cpg-1 69
cpg-2 69
cpi-1 400B
cpna-1 1084B
CPNA-2 479C
cpr-5 400B
cpx-1 541B
crb-1 1172C
Cre-vbh-1 853B
crh-1 25, 616B, 657A, 681A, 685B
crls-1 852A
crp-1 432A
crt-1 23, 574B, 934B
crtc-1 25
csb-1 1163C
csp-1 135
csp-2 135
csp-3 135
ctbp-1 596C, 946B
ctn-1 510A
cul-1 1085C
cul-2 62, 1062A
cul-3 1127C
cul-5 1062A
cut-6 891A
cwn-1 41, 480A, 732A
cwn-2 41, 47, 181, 480A, 507A, 732A
cyb-1 1141B
cyb-2.1 806C, 1141B
cyb-2.2 1141B
cyd-1 1161A
cye-1 1135B, 1161A
cyk-1 1104A
cyk-4 1104A, 1149A
cyp-35a5 354A
cyy-1 98
daf-1 122, 562B, 986C
daf-10 88
daf-11 359C
daf-12 10, 122, 240A, 255A, 1097C,
 1205C
daf-14 562B
daf-15 835B
daf-16 22, 24, 37, 79, 80, 81, 84, 87,
 ... 95, 123, 161, 167, 240A, 243A, 247B,
 251C, 254C, 257C, 273A, 304B,

Gene Index to Abstracts

..... 306A, 308C, 336A, 337B, 338C,
..... 413C, 446C, 665C, 774A, 799B,
..... 841B, 962C, 986C, 1163C
DAF-16 11
daf-18 52, 141, 161, 350C, 383C, 446C
daf-19 504A, 910B, 959C
daf-2 37, 52, 79, 84, 95, 96, 123,
..... 141, 150, 222A, 231A, 236C,
..... 240A, 243A, 247B, 257C,
..... 308C, 310B, 322B, 324A, 350C,
..... 402A, 413C, 428C, 841B, 954A,
..... 986C, 1163C
daf-21 16, 359C, 1177B
daf-22 369A, 1207B, 1212A
daf-28 361B, 363A
daf-3 122, 562B, 821C
daf-36 240A, 1205C
daf-4 32, 1037C
daf-5 122
daf-7 122, 362C, 375A, 562B, 655B,
986C
daf-8 562B
daf-9 10, 240A, 1205C
dat-1 19, 299C, 511B, 517B,
..... 669A, 776C
DBL-1 1039B
dbl-1 32, 473C, 483A, 954A, 966A,
..... 981A, 1083A, 1115C
dcr-1 209, 417A
deg-1 39
del-1 160
dex-1 462A
dgk-1 370B, 664B
dhc-1 1069B, 1116A
dhs-16 1205C
dhs-28 1212A
dig-1 451B
din-1 240A
dis-3 964B
dkf-2 153
dle-1 764C, 842C
dlg-1 1086A
dlk-1 95, 137
dmd-3 184, 473C, 922B, 1251A
dnc-1 1069B
dnj-13 1177B
dnj-14 529B

dnj-27 404C
dog-1 891A, 1133C, 1143A
dop-1 528A, 686C, 916B
dop-2 528A, 776C, 916B
dop-3 528A, 534A, 916B
dop-4 686C
dpy-1 891A
dpy-13 984A
dpy-21 191
dpy-23 573A, 1032A
dpy-24 1097C
drp-1 394B
dsh-1 507A, 1087B
dsh-2 715B, 1087B
dsl-1 739B
dyb-1 510A
dyf-11 674C
dyf-2 1075B
dyf-5 1026A
dyf-7 462A, 1115C
dyn-1 66, 556B, 1032A
dys-1 406B
eak-3 243A
eak-4 243A
eak-7 243A
eat-16 620C
eat-2 96, 251C, 327A
eat-20 1082C
eat-3 394B
eat-4 489A, 514B, 592B, 606A, 676B
ebp-1 1116A
ebp-2 1113A
ect-2 57, 1029A, 1104A
eea-1 1028C
efa-6 137
eff-1 48
efl-1 109
efn-1 460B
eft-3 16
egg-3 869C
egg-4 869C
egg-5 869C
egl-1 123, 768A
egl-13 458C, 500C
egl-15 181
egl-17 739B, 1059A, 1118C
egl-18 710C

egl-19 460B, 561A, 631B
egl-2 642A
egl-20 41, 480A, 732A, 1059A
egl-26 742B
egl-27 42
egl-3 444A, 673B
egl-30 155, 375A, 521C, 526B,
..... 571B, 664B
egl-4 139, 627A, 636A, 665C, 680C
egl-43 180, 738A
egl-45 324A
egl-5 742B, 1109C
egl-8 664B
egl-9 85, 101, 321A, 664B
ekl-4 736B
elpc-3 453A
elt-2 700B, 741A, 742B, 965C, 1009B
elt-3 83, 352B
elt-5 83, 352B
elt-6 83, 352B, 710C
emb-27 553B
emb-30 553B
emr-1 1155A
emr-1 349B, 1006B
end-1 700B, 741A, 742B
end-3 700B, 741A
enpl-1 361B
eor-1 43, 315A
eri-1 1173A
erm-1 178, 1086A
ets-5 601B
eva-1 1117B
exc-1 1028C, 1038A
exc-2 1028C
exc-5 1028C, 1038A
exc-9 1028C, 1038A
exo-3 263C
exoc-7 1046C
exoc-8 1046C
exp-1 742B
F16A11.2 769B
F25H2.5 1118C
F28D1.1 232B
F59G1.4 769B
fasn-1 303A
fat-1 343B
fat-6 954A

Gene Index to Abstracts

fat-7 538B, 954A
fax-1 593C
fbf-1 680C, 857C, 1135B
fbf-2 857C, 1135B
fbn-1 802B
feh-1 593C
fem-1 1062A
fem-2 1105B
fem-3 878C, 918A, 1062A
fer-1 840A
fer-15 207
fer-2 207
fer-3 207
fer-4 207
fer-6 207
fhod-1 1105B
fig-1 688B
fis-1 394B
fkh-4 1195B
fkh-6 964B
flh-1 305C
flh-2 305C
flh-3 305C
fln-1 177
flp-10 457B
flp-17 601B
flp-20 372A
fntb-1 440C
fog-1 820B, 843A, 859B
fog-2 247B, 624A, 856B, 883B
fog-3 843A
folt-1 373B
fos-1 180, 253B, 338C
fox-1 78, 932C
frh-1 335C, 340B, 770C
frk-1 728C
fshr-1 385B, 418B, 429A
FSN-1 459A
fsn-1 444A, 450A, 499B
ftt-2 26, 153
fust-1 427B
fut-1 420A
gad-1 700B
galt-1 420A
gap-3 864A
gar-3 521C
gcs-1 339A, 1177B

gcy-18 928B
gcy-28 372A
gcy-31 601B
gcy-33 601B
gcy-8 928B
gcy-9 601B
ger-1 420A
gla-3 758C
glb-12 817B
glc-1 129
glc-3 606A
gld-1 111, 773C, 806C, 856B, 867A,
871B, 971C
gld-2 867A
glh-1 124
glh-2 124
glh-4 124
glo-1 1041A
glo-2 1042B
GLO-4 459A
glod-4 310B
glp-1 43, 239C, 240A, 247B, 560C,
..... 617C, 677C, 678A, 809C,
..... 841B, 842C, 867A, 1241C
glr-1 101, 169, 562B, 592B,
..... 606A, 1080A
glt-3 774A
goa-1 362C, 375A, 526B,
..... 551C, 567A, 620C, 645A,
..... 664B, 673B, 1079C
gpa-16 1079C, 1149A
gpa-2 655B
gpa-3 655B, 1027B
gpb-2 372A
gpn-1 438A
gpr-2 1079C, 1149A
grk-2 692C
gsa-1 526B
gsk-3 64, 1120B
gst-1 786A
gst-10 331B
gst-12 778B
gst-21 778B
gst-30 232B
gst-38 778B, 1177B

gst-4 232B, 278C, 284C, 335C,
..... 359C, 778B, 1177B
gst-5 778B
gtl-2 148
guk-1 441A
H24K24.3 590C
haly-1 371C
hbl-1 496B, 787B, 798A, 972A
hcf-1 109
hda-4 153, 170
hdac-6 453A
heed-1 315A
hgrs-1 1066B
HGRS-1 73
hif-1 85, 101, 292B, 321A, 664B, 951A
him-3 61, 1008A
him-4 180, 447A
him-5 1008A, 1129B, 1153B
him-8 1158A, 1210B
his-73 821C
his-9 74
hlh-1 742B, 931B
hlh-17 916B
hlh-2 74, 738A
hlh-29 964B, 969A
hlh-3 484B
hlh-30 154
hlh-6 919B, 1093B
hlh-8 931B
hmp-2 737C
hmr-1 1051B, 1090B
hpd-1 243A
hpk-1 223B
hpl-2 1005A
hrp-1 1165B
hsd-1 240A, 1205C
hse-5 451B
hsf-1 214B, 273A, 294A,
..... 308C, 322B, 681A
HSF-1 757B
hsp-1 758C
hsp-16.1 757B
hsp-16.2 942A, 1177B
hsp-16.41 1177B
hsp-3 361B
hsp-60 1177B
hsr-9 320C

Gene Index to Abstracts

hst-3.1495A
hst-3.2 451B, 495A
hst-6 451B
htas-1 821C, 944C
htp-1 61
htp-2 61
htp-3 61
htz-1 736B, 944C
iars-1 362C
ifa-2 1126B
ife-1 823B, 832B
ife-2 290C, 832B
ife-5 823B
ifg-1 313B, 324A, 763B, 832B
ikb-1 671C
ima-3 1116A
imb-1 925B
ina-1 731C, 1123B
ins-1 639A
ins-3 841B
ins-33 841B
ins-4 361B
ins-6 31
ins-7 31, 310B, 331B, 954A
inx-4 613B
ipla-1 1044A
ipp-5 964B
ire-1 86, 167
irg-1 157
isp-1 85, 96, 228A, 312A,
..... 335C, 348A
itr-1 560C, 684A
jmjc-1 269C
jnk-1 84, 138
jun-1 338C
K07D4.7 1108B
K07G5.3 164
K10B3.5 20
kal-1 451B, 1110A
kcc-2 537A
kenl-2 524C
kgb-1 253B, 337B, 338C
kin-10 985B
kin-2 598B, 665C
kin-20 798A
kin-29 170
kin-3 985B

kle-2 1116A
klf-3 538B
klp-4 169
klp-6 671C
klp-7 1096B
ksr-2 1118C
lab-1 54
laf-1 847B
lag-2 180, 738A, 739B
LAG-2 816A
LARP-1 812C
lea-1 889B
lec-9 400B
lem-2 349B, 1155A
lem-3 349B
lep-2 798A
let-19 465A
let-2 1172C
let-23 75, 178, 315A, 1035A, 1066B
let-363 835B
let-363 (Tor) 272C
let-4 1106C
let-502 155, 1092A, 1104A, 1105B,
1113A
let-60 43, 75, 155, 315A, 384A,
..... 726A, 735A, 740C, 864A,
..... 985B, 1118C
let-7 197, 723A, 787B, 789A,
..... 794C, 795A, 798A, 803C,
..... 974C, 978A, 989C, 1000B, 1251A
Let-7 9
let-756 181
let-92 1102B
let-99 1036B, 1079C
lgg-1 327A, 390A
lig-4 239C
lim-6 456A, 508B
lim-7 865B
lim-9 1084B
lin-1 43, 384A, 709B, 724B, 725C
lin-10 101, 413C, 1080A
lin-11 729A, 967B
lin-12 43, 44, 75, 180, 560C,
.. 578C, 677C, 678A, 699A, 738A, 739B
lin-14 212, 797C, 798A
lin-15B 1173A
lin-17 41, 463B, 480A, 1072B

lin-18 41, 480A
lin-2 413C, 1066B
lin-23 59, 706B
lin-28 787B, 797C, 798A, 799B
lin-29 1097C
lin-3 33, 43, 75, 315A, 699A,
..... 712B, 739B, 1066B
lin-31 384A, 721B, 724B, 725C
lin-32 475B
lin-35 109, 461C, 917C, 997B
lin-39 468A, 729A, 732A, 935C
Lin-4 9
lin-4 212, 798A, 1000B
lin-41 1251A
lin-42 8, 255A, 798A, 801A
Lin-42 9
lin-44 41, 463B, 480A, 732A
lin-45 44, 75, 155, 1059A
lin-46 787B
lin-48 709B
lin-5 71, 1149A, 1166C
lin-53 730B
LIN-54 115
lin-7 413C
lip-1 75, 859B
lipl-4 272C
lips-7 596C
lis-1 1116A
lit-1 64, 76, 697B, 797C
lite-1 514B
lite-2 514B
lite-3 514B
lmn-1 1006B
Imp-1 390A
lon-2 966A, 1083A
lov-1 624A, 647C, 671C, 1073C
lrk-1 1031C
lrp-2 1059A
lrr-1 62
lst-1 857C
lsy-27 508B
lsy-6 208, 972A
lys-1 400B
lys-10 400B
lys-4 400B
mab-23 473C
mab-3 184, 922B

madb-2	1108B
mat-2	553B
mat-3	553B, 1141B
math-33	1058C
max-2	1124C
mbk-2	869C
mdh-1	381A
mdh-2	381A
mdt-15	940B
mec-1	308C, 447A
mec-10	754B
mec-17	182, 453A
mec-3	457B, 489A, 497C, 736B
mec-4	19, 308C, 472B, 612A, 754B
mec-5	308C, 447A, 1172C
mec-7	472B
med-1	741A
med-2	741A
mef-2	153, 170, 985B
Mei-1	905C
mei-1	1127C
mek-2	155
mel-11	1091C, 1092A, 1105B
mel-26	1127C
mel-28	822A
mel-32	783A
mep-1	180
mes-2	825A
mes-3	825A
MES-4	115
mes-4	825A
mes-6	825A
mett-10	842C
mev-1	312A
mex-1	832B
mex-3	716C, 720A, 806C
mex-5	49, 716C, 727B, 758C
mex-6	49
mgl-2	372A
mig-1	41, 507A
mig-10	438A, 487B, 491C
mig-2	163, 478B, 1074A, 1124C
mig-21	494C
mig-5	1087B, 1100C
mir-2	769B
mir-233	987A
mir-235	52

mir-239	82
mir-241	972A
Mir-241	9
mir-246	82
mir-34	976B, 986C
mir-35	972A, 989C, 990A
mir-48	795A, 803C, 972A, 974C
Mir-48	9
mir-51	989C
mir-58	981A
mir-71	80, 82
mir-75	481B
mir-79	481B
mir-80	15
mir-83	976B
mir-84	496B, 974C
Mir-84	9
mir-87	987A
mix-1	58
mks-1	164
mksr-1	164
mksr-2	164
mlc-4	1104A
mlh-1	293C
mls-2	696A
mlt-10	802B
mod-1	567A, 767C
mod-5	583B
mom-2	24, 47, 64, 480A
mom-4	64
mom-5	41, 480A, 1072B
mpk-1	155, 859B, 863C, 864A, 1109C, 1118C
mpz-1	1121C
mre-11	239C
mrp-1	358B
mrp-2	358B
msh-2	293C
msh-4	832B
msh-5	63, 832B
msh-6	293C
mtl-1	249A, 250B
mtl-2	249A
mtm-1	165
mus-101	239C, 788C
mut-2	209
mut-7	196, 277C

mvk-1	262B
mys-1	736B
mys-2	736B
nath-10	46
nca-1	160
nck-1	162
ndg-4	27, 411A
ndx-1	323C
ngn-1	74
nhl-2	255A, 971C
nhr-114	828A
nhr-239	593C
nhr-25	45, 184
nhr-48	919B
nhr-49	354A, 378A
nhr-67	180, 593C, 738A
nhr-8	224C
nhr-88	354A
nhx-7	591A
nkcc-1	537A
nlg-1	572C
nlp-12	360A, 570A, 586B
nlp-22	139
nlp-23	139
nmr-1	592B
nmur-1	245C, 286B
nmur-2	245C
nmur-3	245C
nmur-4	245C
nmy-2	57, 71
nnt-1	284C
nos-1	680C
nph-4	505B
nphp-1	164
nphp-2	502B
nphp-4	164, 502B
npp-10	1006B
npp-13	925B
npp-15	239C
npp-16	1155A
NPP-17	459A
npr-1	30, 140, 523B, 593C,664B, 874B, 1186B
nrde-3	975A, 984A
NSBP-1	11
nsy-1	138
nth-1	263C

Gene Index to Abstracts

nud-2 1116A
nuo-6 348A
obr-1 1074A
ocr-2 39, 523B, 673B
octr-1 422C
odr-10 36, 509C
odr-3 437C
odr-7 509C
oga-1 386C, 780A
ogt-1 386C, 780A
oma-1 49, 108, 119, 829B, 832B
oma-2 49, 119, 829B
orai-1 838B
osm-11 251C, 333A, 578C,
 677C, 678A
osm-5 88, 910B
osm-7 251C, 333A, 578C, 678A
osm-9 39, 673B
paa-1 1102B
pab-1 971C
pac-1 1051B
pag-3 443C, 457B, 468A, 596C
pak-1 1045B
pal-1 716C, 1195B
pam-1 863C, 1050A
par-1 1036B, 1043C
par-2 727B, 1062A
par-3 1062A, 1082C
par-4 135, 716C, 788C
par-5 26, 1036B
par-6 66, 1062A
pat-2 37
pat-3 37, 1112C, 1150B
pat-4 731C, 1084B, 1112C
pat-6 37, 731C, 1084B
pax-3 740C
pbo-1 661B
PCH-2 229B
pch-2 818C
pct-1 98
pdf-1 683C
pdf-2 683C
pdfr-1 683C
pdk-1 123, 243A, 250B, 350C
pdr-1 770C
pek-1 86, 167
pgk-1 873A

pgl-1 124, 758C, 997B
pgp-2 358B
pgp-3 333A
pgrn-1 167
pha-4 272C, 703B, 722C, 924A
phat-1 1093B
pie-1 49, 727B, 1129B
pig-1 135
piki-1 165
pink-1 770C
pis-1 756A
pkc-3 1062A, 1082C, 1166C
pkd-2 624A, 647C, 671C, 1073C
pkn-1 155
plc-1 177
plk-1 1140A
plk-2 1140A
plr-1 486A
plx-1 102
pmk-1 148, 153, 339A, 402A,
 408A, 417A, 429A, 1049C
PMR-1 757B
pmr-1 1111B
pms-2 293C
pnc-1 270A, 342A, 380C, 743C
pop-1 64, 76, 697B, 698C,
 727B, 797C, 1100C
pos-1 49, 873A
ppk-1 530C, 964B
ppm-1 499B
pptr-1 868B
pqe-1 967B
pqn 422C
pqn-41 756A
PQN-45 812C
pqn-94 856B
prdx-2 339A, 860C
prg-1 196, 980C, 982B
prkl-1 440C, 1107A
prmt-1 17
prp-8 917C
pst-1 451B
ptl-1 581C
ptp-3 494C, 1178C
puf-8 806C, 824C, 859B, 864A
puf-9 990A
pxn-2 1095A

R11A8.5 359C
R148.3 316B
rab-11 66
RAB-11.1 73
rab-11.1 1129B
rab-2 1040C
rab-3 492A, 597A
rab-5 66, 1074A
rab-6.1 1080A
rab-6.2 1080A
rab-7 972A, 1066B, 1074A
rab-8 709B
rac-2 1074A
rack-1 339A, 978A
rad-51 239C, 1153B, 1160C
rad-54 239C
RAE-1 459A
ral-1 75, 726A
rars-1 421B
rba-1 74
rbr-2 808B
rde-1 13, 209, 975A, 1173A
rde-4 161, 209, 401C, 417A, 975A
rec-8 54, 61
repo-1 72
rfp-1 839C
rga-3 57
rgl-1 75, 726A
rhgf-2 1105B, 1121C
rho-1 57, 155, 517B, 530C,
 1092A, 1104A, 1121C
ric-8 551C
rict-1 350C
rme-1 1028C, 1037C
rme-2 834A
rme-8 1080A
rnf-5 327A
rnr-1 987A
rnt-1 717A, 789A
rol-1 1144B
rol-6 954A
rpe-1 925B
RPM-1 459A
rpm-1 450A, 495A, 499B
rps-0 16, 362C
ropy-1 555A
rrf 997B

Gene Index to Abstracts

rrf-3207, 966A
rsa-1 1102B
rsk-196, 290C, 350C, 374C, 835B
rsr-2917C
rtel-1 1133C
sago 997B
sams-1 145, 377C
sams-3 377C
sams-4 377C
sams-5 377C
SAS-4 866C
SAS-5 866C
SAS-6 866C
sax-3 465A, 503C, 750A,
 1117B, 1123B
sbp-1 145
scpl-1 1084B
sdn-1 438A, 452C, 1178C
sea-1 78
sea-2 78
sec-8 1032A
sek-1 138
sel-10 44, 59
sel-12 560C
sem-2 500C
sem-4 42, 742B
sep-1 1129B, 1142C
ser-1 528A, 767C, 1121C
ser-2 457B
ser-4 567A, 616B
ser-5 767C
ser-7 528A, 767C
set-1 191, 192
set-16 756A
set-2 1005A
set-4 191
sex-1 78
sfa-1 938C
sfc-1 925B
sgk-1 87, 350C
she-1 814B, 856B
sid-1 209, 1173A
sid-2 894A
SIR-2.1 291A
sir-2.1 79, 191, 270A, 342A, 745B
sir-2.4 81

skn-1 22, 88, 214B, 232B, 278C,
 279A, 292B, 306A, 339A,
 579A, 706B, 727B, 741A,
 778B, 786A, 927A, 1177B
skr-1 1085C
skr-2 706B
skr-5 315A
slo-1 596C, 597A, 610B, 642A
slr-2 269C
slt-1 163, 503C
sma-10 1037C
sma-3 32, 793B
sma-6 32, 966A, 981A, 1037C
sma-9 954A
smc-4 58
smg-1 933A
smn-1 746C, 747A, 777A, 779C
smo-1 45, 294A, 934B, 997B, 1122A
smf-1 102
smf-2 102
sms-1 625B
snb-1 559B
snn-1 556B
snt-1 541B, 556B, 573A
snx-1 1080A
sod-1 777A
sod-3 24, 270A
sod-4 295B
sodh-1 590C
sorf-1 1071A
sox-2 500C
sox-3 500C
sox-4 500C
spas-1 1113A
spd-1 58, 1149A
spd-3 1158A
SPD-5 866C
spe-11 862B
spe-19 624A, 840A
spe-27 830C, 840A
spe-29 840A
spe-38 624A, 840A, 858A
spe-4 830C
spe-41 840A, 858A, 862B
spe-42 840A
spe-44 855A
spe-6 830C, 840A

spe-7 1154C
spe-8 120, 840A
spe-9 840A, 862B, 1210B
sphk-1 521C
spk-1 65
spn-4 49, 716C
spo-11 61, 1160C
spr-2 108
spt-4 191
spt-5 191
srb-13 831A
srb-16 831A
srb-2 831A
srbc-64 655B
srbc-66 655B
src-1 64, 737C
srp-6 760B
ssl-1 736B
STAM-1 73
stim-1 838B
sto-6 512C
str-33 645A
strd-1 135
sun-1 1158A
sup-35 109
swd-2.2 756A
swm-1 120
swsn-2.1 950C
swsn-2.2 950C
syd-2 556B
sygl-1 857C
sym-1 1106C
sym-5 1106C
synMuv B genes 997B
syp-1 61, 63
syp-2 61
sys-1 76, 697B, 698C, 1059A
tag-180 631B
tag-233 529B
tag-315 925B
tat-1 73, 947C, 1033B
tat-5 73
tatn-1 243A
tax-2 577B, 1078B
tax-4 523B, 577B
tba-1 769B
tbc-2 1074A

Gene Index to Abstracts

tbg-1 68
TBG-1 866C
tbh-1 534A
tbp-1 925B
tbx-2 952B
tctn-1 505B
tdp-1 427B, 777A, 992C
teg-1 867A
tim-1 798A
tir-1 138, 339A, 504A
TLK-1 1138B
tmd-1 1091C
toca-1 493B, 1088C
tol-1 671C
TOM-1 550B
tomm-40 363A
top-2 58
tos-1 938C
tph-1 468A, 504A, 571B,
..... 583B, 645A, 767C
tps-1 1172C
tpxl-1 68
tra-1 125, 811B, 836C, 1074A
tra-2 468A, 856B, 878C
tra-3 23
trf-1 671C
trp-1 160
trp-4 570A, 586B
trr-1 125
try-2 1110A
try-5 120
TSG-101 73
ttll-4 1049C
ttx-1 701C, 928B
tyra-3 626C
uaf-1 867A, 938C
ubc-1 332C
ubc-13 332C
ubc-18 109
ubc-22 332C
ubc-9 934B, 952B
ucr-2.3 312A
uev-1 332C
ufd-2 297A, 315A
ufd-3 297A
ugt-1 1177B
ulp-2 1122A

unc-1 512C
unc-10 556B
unc-101 1031C, 1066B
unc-103 33, 526B, 642A
unc-104 437C, 479C, 1031C
unc-112 37, 731C, 1085C, 1112C
unc-115 438A, 493B, 1124C
unc-116 1116A
unc-119 443C, 1129B
unc-120 155, 931B
unc-129 102, 160, 719C
unc-13 514B, 552A
unc-130 719C
unc-14 479C
unc-16 1031C
unc-17 559B
unc-17/cha-1 160
unc-18 479C
unc-2 521C, 561A
unc-25 456A, 522A
unc-26 556B
unc-29 1127C
unc-3 160, 468A, 742B
unc-30 933A
unc-31 530C
unc-32 932C
unc-33 478B
unc-34 102, 162, 503C, 1124C
unc-36 561A, 631B
unc-4 676B, 1144B
unc-40 47, 163, 438A, 464C,
..... 476C, 482C, 491C, 494C,
..... 1103C, 1108B, 1124C
unc-41 573A
unc-43 138, 561A, 571B,
..... 638C, 680C, 684A
unc-44 478B
unc-46 456A
unc-47 114, 456A, 879A
unc-5 47, 438A, 464C, 1097C
unc-51 390A, 479C
unc-53 1117B
unc-54 933A, 1000B
unc-55 496B
UNC-6 479C

unc-6 47, 163, 438A, 464C,
..... 476C, 482C, 1103C, 1108B, 1124C
unc-62 159, 717A
unc-68 23, 560C
unc-69 503C
unc-7 437C, 512C
unc-71 1117B
unc-73 155, 163, 478B,
..... 503C, 521C, 571B, 1117B
unc-75 932C
unc-8 39, 160
unc-80 530C
unc-83 1088C, 1116A
unc-84 1088C, 1116A
unc-86 457B, 489A, 497C
unc-89 1061C, 1084B, 1085C, 1127C
unc-9 512C
unc-94 1091C
unc-95 1125A
unc-96 1084B
unc-97 37, 1125A
ung-1 263C
utx-1 736B, 756A
vab-1 162, 383C, 438A, 460B
vab-10 1095A, 1099B
vab-2 1123B
vab-3 1123B
vab-5 1123B
vab-8 170, 1117B
vang-1 257C, 440C, 1059A, 1107A
vars-2 851C
vav-1 532B
vbh-1 847B, 853B
vglu-2 489A, 676B
vglu-3 489A, 676B
vha-12 23, 748B
vha-19 834A
vhl-1 85
vig-1 867A, 971C
vpr-1 750A, 759A, 815C
VPS-28 73
vps-28 1066B
vps-34 165
vps-35 1037C, 1080A
VPS-39 550B
wago 997B
wam-1 1068A

Gene Index to Abstracts

wdr-23 232B, 278C, 279A, 579A	xpa-11163C	zim-2 1158A
wdr-5756A	xpc-11163C	zim-3 1158A
wee-1.3807A	xpf-1335C	zip-2 157
wht-6358B	Y8A9A.2919B	zmp-1 180, 738A
wnk-1796B	ykt-6362C	ztf-12 109
wrm-124, 51, 76, 83, 697B, 1070C	zag-1443C, 596C	ZTF-8 1145C
wrn-1213A, 277B	ZC395.10359C	zyg-159
wrn-2329C	zen-41070C, 1149A	zyg-11706B, 1141B
wsp-1162, 493B	zfp-1161, 461C, 973B	ZYG-12 1167A
wts-11052C	zhp-363, 1008A, 1157C	zyg-12 1158A
wve-11086A	zif-149	zyg-9 1165B
xbp-186, 934B	zig-3457B	
xol-178, 878C	zim-1 1158A	

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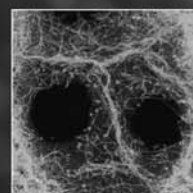
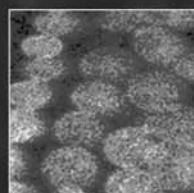
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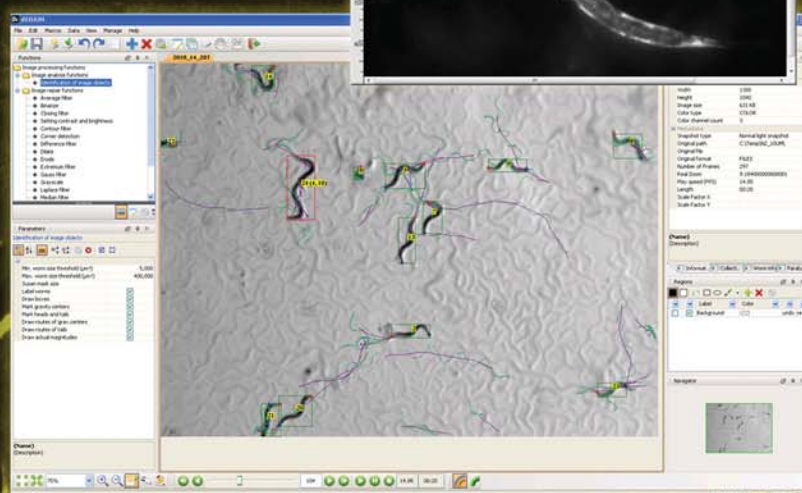
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