

47th ANNUAL DROSOPHILA RESEARCH CONFERENCE

PRELIMINARY SCHEDULE OF SESSIONS

● WEDNESDAY, MARCH 29

9:00 AM - 6:00 PM	Ecdysone Workshop
2:00 PM - 6:00 PM	Drosophila Board of Directors Meeting
7:00 PM - 9:15 PM	Opening Session
7:00 PM	Opening Remarks
7:20 PM	Introduction of Keynote Speaker
7:30 PM	Keynote Address
8:15 PM	Larry Sandler Memorial Lecture
9:00 PM - 12:00 AM	Mixer/Reception

● THURSDAY, MARCH 30

8:30 AM - 12:00 PM	Plenary Session 1
1:00 PM - 6:00 PM	FlyBase Demonstrations
2:00 PM - 4:00 PM	Exhibits and Posters (with authors)
2:00 PM	Even-numbered posters
3:00 PM	Odd-numbered posters
4:00 PM - 6:30 PM	Concurrent Platform Sessions I
8:00 PM - 11:00 PM	Exhibits and Posters (with authors)
8:00 PM	"A" posters
9:00 PM	"B" posters
10:00 PM	"C" posters

● FRIDAY, MARCH 31

8:30 AM - 12:30 PM	Concurrent Platform Sessions II
9:00 AM - 6:00 PM	FlyBase Demonstrations
2:00 PM - 4:00 PM	Concurrent Workshops 1
4:30 PM - 6:30 PM	Concurrent Platform Sessions III
8:00 PM - 11:00 PM	Exhibits and Posters (with authors)
8:00 PM	"C" posters
9:00 PM	"B" posters
10:00 PM	"A" posters

● SATURDAY, APRIL 1

8:30 AM - 12:30 PM	Concurrent Platform Sessions IV
9:00 AM - 5:00 PM	FlyBase Demonstrations
2:00 PM - 4:00 PM	Exhibits and Posters (with authors)
2:00 PM	Odd-numbered posters
3:00 PM	Even-numbered posters
4:00 PM - 6:30 PM	Concurrent Platform Sessions V
7:00 PM - 9:00 PM	Concurrent Workshops 2
8:00 PM - 11:00 PM	Open Poster Viewing
9:30 PM - 11:30 PM	Concurrent Workshops 3

● SUNDAY, APRIL 2

8:30 AM - 12:00 PM	Plenary Session 2
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GENERAL INFORMATION

You are invited to attend the 47th Annual Drosophila Research Conference, sponsored by The Genetics Society of America (GSA).

The Conference will be held on March 29 through April 2, 2006, in Houston, Texas, at the Hilton Americas – Houston.

The Conference will open on Wednesday evening, March 29, with an opening session from 7:00 PM until 9:00 PM, followed by a mixer from 9:00 PM until 12:00 midnight. The closing plenary session will take place from 8:30 AM until 12:00 noon on Sunday, April 2.

The Program Chairs for the 2006 conference are Hugo Bellen and Ron Davis. The co-chairs are Georg Halder and Graeme Mardon. They may be reached at the following e-mail addresses:

hbellen@bcm.tmc.edu

rdavis@bcm.tmc.edu

ghalder@mdanderson.org

gmardon@bcm.tmc.edu

PROGRAM INFORMATION

Abstract Submission

All abstracts will be accepted electronically via the World Wide Web. For instructions, access the Drosophila Conference Web site at:

<http://www.drosophila-conf.org/>

The site will open for abstract submissions beginning on or about Monday, October 3, 2005.

The deadline for submission of abstracts is Monday, November 21, 2005, at 12:00 PM (midnight) United States East Coast time.

Revisions may be made until Friday, November 25.

Late abstracts may be submitted from Thursday, December 1, 2005, until Friday, March 3, 2006. Submission of late abstracts must be via the late abstract submission program on the Conference Web site. If accepted, these abstracts will not appear in the program and abstracts volume but will be printed in the program addendum distributed at the meeting. Accepted late abstracts will be assigned poster presentations and given space at the back of the poster area, rather than in the requested area of interest. These abstracts will not be considered for platform presentation.

Author Presentation Notifications

Platform and poster presentation assignments will be posted at the Drosophila Conference Web site **<http://www.drosophila-conf.org/>** on or around Monday, January 23, 2006. Just before this site opens, authors will be sent an e-mail reminder to visit the site for platform and poster presentation assignments.

Individual notifications by written letter or by e-mail will not be sent unless specifically requested. Send such requests to Toney Vogel at tvogel@genetics-gsa.org.

Program and Abstracts Volume

The entire contents of the Program and Abstracts Volume, including the text of all abstracts, will be available at the GSA Drosophila Conference Web site **<http://www.drosophila-conf.org/>** on or about March 1, 2006.

All registrants receive one copy of the Program and Abstracts Volume when they arrive at the conference. Extra copies will be sold at the Conference for \$15 each. Please see the Registration section for additional details.

Abstract Search and Program Planner

The Conference Abstract Search and Program Planner, available at the GSA Drosophila Conference Web site **<http://www.drosophila-conf.org/>** on or about March 1, 2006, enables the user to search (by keyword, author and abstract title), view, and print all abstracts. The program will also permit the user to select abstracts of interest to create a day-by-day, session-by-session personal Conference itinerary. Please direct any questions about this program to Krista Koziol, GSA publications manager at kkoziol@genetics-gsa.org.

Plenary Speakers

We are delighted to announce that the following individuals will be among those giving plenary talks:

Barry Dickson
Leslie Vosshall
Marek Mlodzik
Leslie Griffith
Garry Karpen
Manfred Frasch
Gero Miesenbock
Chuck Langley
Sean Carroll
Richard Mann
Bill Chia

Larry Sandler Memorial Lecture

The Larry Sandler Memorial Lectureship was established in recognition of Dr. Larry Sandler's many contributions to Drosophila genetics and his dedication to the training of Drosophila biologists. The recipient of the 18th Larry Sandler Award for the most outstanding Ph.D. dissertation submitted this year will lecture at 8:15 PM on Wednesday evening, March 29. Information on nominating candidates for this award can be found in this pdf file.

Platform Sessions

The program committee will select a subset of abstracts for platform presentations, basing their selections on several criteria, including research area, scientific impact and laboratory representation. Authors of abstracts should indicate their preference for either a platform or a poster presentation by marking the appropriate field on the Web abstract submission form. Note, however, that the program committee will determine the final designation of platform or poster presentations.

Because platform presentation requests far exceed available presentation slots (only 10-15% of all abstracts received can be accommodated in platform sessions), **authors should be prepared to present a poster if their abstract is not selected for a platform presentation.**

Each platform presentation will be limited to a 12-minute presentation, with an additional 3 minutes for questions and discussion.

To fairly accommodate the large number of requests for platform presentations, authors presenting a talk in a platform session may not present the same work in a workshop. Any author offered positions in both forums is expected to decline or withdraw from one.

Poster Sessions

The majority of the submitted abstracts will be scheduled as posters. Poster presenters **will be required** to attend their posters for multiple sessions. **The poster area will be open 24 hours a day beginning at 5:00 PM, Wednesday, March 29**, until Saturday evening, April 1, in the Grand Ballroom C-L of the Hilton Americas - Houston. Posters may be mounted on boards beginning at 5:00 PM on Wednesday, March 29, and must be removed by 10:00 AM on Sunday, April 2.

Poster Session Awards

Awards will be given for the best poster presentations. First place (\$500), second place (\$300) and third place (\$200) prizes will be given to students or postdocs judged to have the best posters. Both scientific merit and clarity of presentation will be taken into account. This competition is open only to students and postdocs; PI's are not eligible.

Workshops

Rooms and times have been reserved for the presentation of workshops on Friday afternoon and Saturday evening. **Individuals interested in organizing a workshop should contact the Conference chairs by October 1, 2005.** At that time, workshop organizers should provide a preliminary format. Authors presenting a talk in a workshop may not present the same work in a platform session.

Audio-Visual Equipment

Standard equipment provided without request in each plenary, workshop and platform session room includes an LCD data projector, a laser pointer and a microphone. **All presentations should be made using PowerPoint or similar computer-generated slides.**

All authors selected for platform presentations are required to:

- 1) Complete a platform presenter PowerPoint information form; and
- 2) Load and test their computer-generated presentation in the Speaker Ready Room at the meeting the day before their assigned platform session. Further details will be posted at the abstract assignment notification Web site.

As in the past, each platform presenter will be given 12 minutes for presentation and an additional 3 minutes for questions and discussion.

REGISTRATION

The governing boards of the Drosophila community and The Genetics Society of America (GSA), the sponsoring organization of the Conference, have agreed that members and affiliates of GSA who attend the Conference should pay the lowest fees as a benefit of GSA membership. If you wish to join GSA, you may do so online by going to the GSA Web site at <http://www.genetics-gsa.org/> (click on Membership Application). Application for 2006 GSA membership will be open online after August 30,

2005. Only graduate and undergraduate students qualify for the reduced student rate. Postdoctoral students and laboratory technicians do not qualify for the student rate and must pay the faculty/ postdoctoral/lab tech rate.

Conference registrations will be accepted only via the Drosophila Conference Web site: **<http://www.drosophila-conf.org/>** opening on or around November 4, 2005. Click on: *Online Conference Registration*. Payment must be made with a credit card. Note that use of a credit card at this site does not include a third party payment system. For questions regarding registration contact Toney Vogel at tvogel@genetics-gsa.org

Registration Fees

	<i>On or before Feb. 24</i>	<i>After Feb. 24 and on site</i>
● Faculty, Postdoctoral, and Lab Technicians		
*GSA Member/Affiliate	\$190	\$335
Nonmember	\$310	\$455
● Graduate and Undergraduate Students Only		
*GSA Member/Affiliate	\$ 80	\$170
**Nonmember	\$145	\$235

NOTE: Registration fees **do not include** *hotel accommodations or meals*.

*GSA membership dues are current only if paid through the end of 2006. **Dues payment for 2006 may be made online after August 31, 2005.**

**Nonmembers registering at the Graduate and Undergraduate student rate must provide information on graduate- or undergraduate-level student status.

Advance Registration Deadline

The deadline for receipt of advance registration at the reduced rate is Friday, February 24, 2006. Credit cards must be used to register for the Conference via the online registration site at **<http://www.drosophila-conf.org/>** open on or around November 4, 2005. After February 24, 2006, you must register at the higher rates, and it will be too late to receive the program and abstracts volume by mail in advance of the meeting.

Payment

Payment must be made by credit card (Visa, MasterCard, American Express or Discover). Note that use of a credit card at the online registration site does not include a third party payment system. Credit card payments **will not** be accepted by telephone or fax.

Cancellation of Advance Registration

A \$35 processing fee will be charged for all registration cancellations. Registrations will be accepted and refunds processed by **returning the Conference badge and payment receipt along with a written (via e-mail to tvogel@gsa-genetics.org) request to cancel the registration.** Cancellation requests must reach the GSA office by Wednesday, March 22, 2006. After that date, no refunds will be made.

Program and Abstracts Volume

Program and abstracts volumes will be available at the Conference. **The registration fee does not include the cost of mailing the program and abstracts volume prior to the Conference.**

To keep meeting registration costs from increasing, the book will be mailed only to U.S. resident pre-registrants who indicate when registering that they wish to receive the book by priority mail prior to the Conference, and who include the required **\$15 fee** with the advance registration form received by February 24, 2006.

Non-U.S. resident pre-registrants may request delivery only by Federal Express (FedEx) or other private delivery carrier by contacting Toney Vogel, registrar, at tvogel@genetics-gsa.org. *Individuals making this request must supply their Federal Express or other private carrier account number.* Note that due to the weight (nearly three pounds) of the Program and Abstracts Book, FedEx charges may be as high as \$30–50 USD. Check with your local FedEx office if cost is a concern. Other types of delivery outside the U.S. have proven to be unreliable in the past and will not be offered.

Because of the limited time between publication of the program and abstracts volume and the beginning of the Conference, GSA cannot guarantee that your program and abstracts volume will be delivered to you prior to your departure for the Conference.

On-Site Registration Hours

The registration and information area will be located in the Promenade on the fourth floor of the Hilton Americas - Houston, and open according to the following schedule:

Wednesday, March 29	3:00 PM–9:00 PM
Thursday, March 30	8:00 AM–5:00 PM
Friday, March 31	8:30 AM–5:00 PM
Saturday, April 1	9:00 AM–5:00 PM
Sunday, April 2	Closed

ACCOMMODATIONS AND TRAVEL

Location

The Conference will be held in Houston, Texas. Houston is easily accessible by air and major interstate highways. The average high temperature during the Conference dates is 77 degrees Fahrenheit; the average low is 56 degrees Fahrenheit. The hotel room block and all sessions of the Conference are at the Hilton Americas - Houston. This facility is conveniently located near airports and minutes from downtown's wealth of dining, entertainment, cultural and nightlife attractions.

The Houston Airport System, consisting of Bush Intercontinental Airport, William P. Hobby Airport, and Ellington Field, provides nonstop service to a total of 184 cities worldwide.

The MetroRail, a 7.5-mile light rail system, links downtown with the **Museum District**, the Medical Center and **Reliant Park**.

Hotel and Reservations

The Hilton Americas - Houston hotel offers a comprehensive business center, three restaurants, the Lobby Bar, Java Coast Coffee Emporium, and the Skyline Spa & Health Club. The hotel is one block from Toyota Center (home of the Rockets, Comets and Aeros) and two blocks from Minute Maid Park (home of the Houston Astros). It is minutes from the theater district which includes Jones Hall, The Wortham and Hobby Center, and from the cultural museum corridor, which includes the Museum of Fine Arts, Museum of Natural Science, Contemporary Arts Museum and the Holocaust Museum.

To reserve a hotel room at the Hilton Americas online, please go to http://www.hilton.com/en/hi/groups/private_groups/houcv_hh_gsa/index.ihml

Or, if you prefer, you may complete as instructed the Housing Application and Reservation Form

contained in the pdf file and mail it to the Hilton Americas - Houston. Note that reservations will be accepted only when accompanied by a credit card guarantee with a deposit of the first night's room and tax.

Reservations also may be made at the Hilton Americas - Houston by telephone, or fax to the numbers on the reservation form.

Deadline for receipt of reservations: Monday, February 27, 2006. When contacting the hotel by telephone, identify yourself as an attendee of the 47th Annual Drosophila Research Conference and request the group rate for The Genetics Society of America.

Please note that neither the Hilton Americas - Houston nor the GSA staff will assist in finding or assigning roommates. However, individuals looking for roommates may check the online bulletin board at the Drosophila Conference registration site (<http://www.drosophila-conf.org/>), which opens on or around November 4, 2005.

The Hilton Americas - Houston will process reservation requests on a first-come, first-served basis. To make reservations by telephone, call (800) HILTONS (reservations only); Texas residents call (713) 739-8000 (hotel's main number); or fax the form to (713) 739-8007. For general information about the hotel go to the Hilton Americas - Houston site at: <http://www.americashouston.hilton.com>

Please note: **the deadline for RECEIPT of hotel reservations is Monday, February 27, 2006.**

Room Types and Rates

Room descriptions and pictures are available at <http://www.americashouston.hilton.com>

RATES:

Standard Rooms:

Single	1 person, 1 king-size bed	\$149
Double	2 persons, 1 king-size bed	\$149
**Triple	3 persons, 2 double beds	\$179
**Quad	4 persons, 2 double beds	\$189

Concierge Level Rooms:

Single	1 person, 1 king-size bed	\$179
Double	2 persons, 1 king-size bed	\$179
**Triple	3 persons, 2 double beds	\$209
**Quad	4 persons, 2 double beds	\$219

All rates are per room, per night and do not include local room tax of 17%. Maximum occupancy per room is four people.

**Single person roll-away beds may be requested for triple and quad rooms, but availability is limited and an additional charge will apply.

IMPORTANT: Room Reservation Cancellation Policy

To receive a credit or refund of the required first night's room and tax deposit, cancellation must be made at least 48 hours prior to the scheduled arrival date and time to obtain a refund of the advance deposit. Check-in time is 12:00 PM, so the cancellation must be made by 12:00 PM two days before the reserved arrival date.

Though the Hilton Americas - Houston is handicapped accessible, it is the guest's responsibility to advise the hotel of special needs as far in advance as possible. Every effort will be made to accommodate special needs.

Ground Transportation

Shuttle van service and taxis are available at the airport. Shuttle service is currently \$19.00 each way; taxi service is currently about \$38.00 each way.

Parking

Self parking is available at the Hilton Americas - Houston for guests staying at the hotel at \$12 per day, and for those not staying at the Hilton at \$3–4 per hour, up to a daily maximum of \$10.

Call for Nominations

LARRY SANDLER MEMORIAL LECTURE

We invite nominations of candidates to present the 18th Larry Sandler Memorial Lecture held on the opening night of the 47th Annual Drosophila Research Conference, March 29, 2006, in Houston, Texas.

Any student completing a Ph.D. in an area of Drosophila research in calendar year 2005 is eligible and may be nominated by his/her thesis advisor. Past recipients of this honor are:

Bruce Edgar, 1988	Abby Dernburg, 1997
Kate Harding, 1989	Nir Hacoheh, 1998
Michael Dickinson, 1990	Terence Murphy, 1999
Maurice Kernan, 1991	Bin Chen, 2000
Doug Kellogg, 1992	James Wilhelm, 2001
David Schneider, 1993	Matthew C. Gibson, 2002
Kendal Broadie, 1994	Sinisa Urban, 2003
David Begun, 1995	Sean McGuire, 2004
Chaoyong Ma, 1996	Elissa A. Hallem, 2005

Nominations should include curriculum vitae, a thesis abstract of one or two pages, and a letter of nomination from the advisor.

Send nominations for receipt by December 31, 2005, to:

R. Scott Hawley
Stowers Institute for Medical Research
1000 E. 50th Street
Kansas City, MO 64110, USA

e-mail : rsh@stowers-institute.org
telephone: (816) 926-4427
fax: (816) 926-2060

47th ANNUAL DROSOPHILA RESEARCH CONFERENCE

March 29–April 2, 2006

• Housing Application and Reservation Form • Receipt Deadline: February 27, 2006

For general information, room descriptions and pictures: For general information, room descriptions, pictures and to make your reservation **ONLINE** at http://www.hilton.com/en/hi/groups/private_groups/houcvehh_gsa/index.jhtml

BY FAX: (713) 739-8007

BY TELEPHONE:

Outside Texas, US and Canada: (800) HILTONS (reservations only)
Texas residents: (713) 739-8000 (main number)

BY MAIL: Reservations Department
Hilton Americas - Houston
500 Hotel Circle North
Houston, Texas 92108 USA

- **Do NOT make reservations by more than ONE METHOD noted above, as it will result in a duplicate reservation and you will be charged for 2 deposits (i.e., do not fax and telephone reservation requests). Reserve early! Space is limited.**
- If you are making reservations for more than one room, this form may be photocopied. Only ONE room reservation can be made per application form. All individuals sharing this one room should be listed below.
- Confirmations will be sent by the hotel ONLY to the first person named below. **The first person named below is responsible for making and providing copies to individuals sharing the room.**
- Reservations will be processed on a first-come, first-served basis. Once the Drosophila room block is sold out, your reservation request may be referred to another nearby hotel **at a higher rate.**

***INDIVIDUALS LISTED BELOW IN THE "SHARING WITH" SECTION SHOULD NOT SUBMIT SEPARATE RESERVATION FORMS. THIS WILL RESULT IN DUPLICATE RESERVATIONS AND NO-SHOW CHARGES BY THE HOTEL. NAME OF INDIVIDUAL TO WHOM CONFIRMATION WILL BE SENT IS THE FIRST LISTED: (Separate confirmations will not be sent to individuals listed as sharing the room.)**

1st Person _____
First Name M.I. Last Name

Dept and Institution _____

Street Address or P.O. Box Number _____

City State Zip/Mail Code Country

Telephone Number FAX Number E-mail Address

ARRIVAL: Date _____ **DEPARTURE:** Date _____

Check-in time is 3:00 PM. Check-out time is 12:00 PM.

ROOM TYPE/ROOM RATE: Please check only **ONE** box to indicate room type requested. Roll away beds may be requested but are not guaranteed. Taxes of 17% are not included in rates shown and will be added.

Standard Rooms:

- Single 1 person, 1 king-size bed \$149
- Double 2 persons, 1 king-size bed \$149
- Triple 3 persons, 2 double beds \$179
- Quad 4 persons, 2 double beds \$189

Concierge Level Rooms:

- Single 1 person, 1 king-size bed \$179
- Double 2 persons, 1 king-size bed \$179
- Triple 3 persons, 2 double beds \$209
- Quad 4 persons, 2 double beds \$219

Smoking Non-smoking Disabled Room Other special requests _____

SHARING A ROOM: (Individuals listed below should not submit separate reservation forms because duplicate reservations could result, causing automatic cancellation of reservations, or no-show charges by the hotel! Confirmation will be sent ONLY to 1st person named above.) If more than one person occupies a room, specify roommate names below:

2nd person _____ 3rd person _____

4th person _____ **No more than 4 persons per room allowed.**

ROOM RESERVATION GUARANTEE AND CANCELLATION: Reservation must be guaranteed with one-night's room deposit by **major credit card**. It is the hotel's policy to charge your credit card one night's room and tax deposit at the time you make your reservation. **To obtain a refund of deposit, Cancellations must be made by 12:00 PM, 48 hours prior to the scheduled arrival date.**

Card Type _____ Card # _____ Exp Date: _____

EXACT name on card _____ Signature _____
(Print name)

ABSTRACT SUBMISSION

Each abstract must be submitted on the World Wide Web. Complete and detailed instructions for submitting abstracts on the Web are available at <http://www.drosophila-conf.org/> beginning on or about October 3, 2005. Abstracts prepared on paper and mailed to the GSA office, photo-copies, facsimiles or e-mails of abstracts will not be accepted.

Abstracts will appear on the Web and in the program and abstracts volume exactly as submitted, i.e., no corrections, additions, revisions or deletions will be made by the GSA staff. Only the submitting author may make revisions and corrections via the Web abstract submission program. GSA staff cannot make revisions. All revisions must be made no later than the revision deadline on November 25, 2005. Please proof your text carefully before submitting.

Because platform presentation requests far exceed platform presentation slots (only 10-15% of all abstracts received can be accommodated in platform sessions), **authors should be prepared to present a poster if their abstract is not selected for a platform presentation.**

Any authors presenting a talk in a workshop may not make a platform session presentation on the same topic.

Deadline for Receipt of Abstracts

To submit an abstract, follow the instructions for Web submission. **Submissions must be completed before midnight on Monday night, November 21, 2005, U.S. East Coast time.**

Receipt of each abstract submission as entered by the author will be acknowledged electronically to the author's e-mail address within 24 hours. Confirmation of abstract receipt will include an abstract control number, an author ID number for future reference and text of the abstract (for specifics, consult the Web instructions). **If you do not receive an e-mailed confirmation, your abstract was not received.** To check for a successful submission, enter the online abstract submission site as though you plan to revise your abstract. If you do not find your abstract, it was not received and you should resubmit it.

Shortly before the abstract assignment Web site opens around January 23, 2006, authors will be sent an e-mail reminder to check the Conference Web site for platform and poster assignments. **Individual notification letters will not be sent. It is the responsibility of each author to check the Web site to ascertain the assignment to poster or platform presentation.**

Instructions for Submitting Abstracts

● **Step 1: Select a session topic area** (01-15) from the following list. Select the area that best defines the session in which you would like to be included. Insert the number in the appropriate field on the Web abstract submission form.

- 01 Cell division and growth control
- 02 Cytoskeleton and cellular biology
- 03 Genome and chromosome structure
- 04 Regulation of gene expression
- 05 Signal transduction
- 06 Pattern formation
- 07 Gametogenesis and sex determination
- 08 Organogenesis
- 09 Neurogenetics and neural development
- 10 Neural physiology and behavior
- 11 Evolution and quantitative genetics
- 12 Immune system and cell death
- 13 Techniques and genomics
- 14 Drosophila models of human diseases
- 15 Physiology and aging

● **Step 2: Select a keyword** from the keyword list on the following page and enter it in the appropriate place on the Web abstract submission form. You may choose only a keyword listed under the same number as the number of the session topic area you select from the above list. Do not use a keyword from another session topic area.

If you do not see a keyword that is appropriate for your abstract under the session topic you chose, please choose "other" as a keyword and fill in a keyword that fits your research best.

Posters will be grouped by the fifteen session topic areas listed above. Within these topics, posters will be ordered by keywords, in an effort to group related abstracts together within session topic areas.

Platform session topic areas will adhere as closely as possible to the session topic areas above, but are subject to modification based on the relative distribution of specific research areas in the pool of submitted abstracts.

KEYWORDS

01 Cell division and growth

control

- a. mitosis
- b. meiosis
- c. checkpoint
- d. kinase/phosphatase/cyclin
- e. developmental modulation
- f. centrosome
- g. kinetochores and cohesion
- h. spindles and motors
- i. cytokinesis
- j. cell growth
- k. tissue growth
- l. tumor suppressors and oncogenes
- m. cell competition
- n. other

02 Cytoskeleton and cellular

biology

- a. cytoskeleton
- b. intracellular transport
- c. vesicles
- d. other

03 Genome and chromosome structure

- a. chromatin and remodeling complexes
- b. insulators/boundary elements
- c. polycomb/trithorax complexes
- d. position effect variegation
- e. dosage compensation
- f. telomere
- g. centromere
- h. transposons
- i. other

04 Regulation of gene expression

- a. core promoters and general transcription factors
- b. enhancers
- c. activators/coactivators
- d. repressors/corepressors
- e. transcription elongation
- f. splicing and its regulation
- g. RNA modification and editing
- h. translational control
- i. RNA localization
- j. other

05 Signal transduction

- a. kinase/phosphatase
- b. cell-cell communication
- c. G protein
- d. receptor-ligand
- e. second messengers
- f. downstream cascades and targets
- i. other

06 Pattern formation

- a. segmentation
- b. homeotics
- c. axis specification
- d. compartments and boundaries
- e. cell migration and motility
- f. cell polarity
- g. commitment
- h. imaginal disk derivatives
- i. non-Drosophila patterning
- j. other

07 Gametogenesis and sex determination

- a. oogenesis
- b. spermatogenesis
- c. pre-gametogenic germ cell development
- d. sex determination
- e. sex-specific traits and molecules
- f. other

08 Organogenesis

- a. endodermal derivatives
- b. mesodermal derivatives
- c. ectodermal derivatives (nonneural)
- d. extracellular matrix/cell adhesion
- e. other

09 Neurogenetics and neural development

- a. axon guidance
- b. synaptogenesis
- c. neuronal specification
- d. programmed cell death
- e. glia
- f. hormonal control
- g. CNS
- h. sensory
- i. postembryonic
- j. other

10 Neural physiology and behavior

- a. sensory
- b. synapse
- c. neurotransmitters
- d. neuropeptides
- e. ion channels
- f. homeostasis
- g. learning/memory
- h. courtship and mating
- i. circadian rhythms
- j. hormones
- k. other

11 Evolution and quantitative genetics

- a. genome evolution
- b. population variation
- c. evolution and development
- d. quantitative traits
- e. speciation
- f. phylogenetics
- g. other

12 Immune system and cell death

- a. cellular immunity
- b. humoral immunity
- c. caspases
- d. death mutants/genes
- e. inhibitors of apoptosis (iaps)
- f. transcriptional regulation
- g. other

13 Techniques and genomics

- a. microarrays
- b. RNAi
- c. microscopy
- d. gene disruption and targeting
- e. gene mapping
- f. computational analyses
- g. mutational screens
- h. molecular interactions
- i. other

14 Drosophila models of human diseases

- a. neural degeneration
- b. cancer
- c. addiction
- d. developmental disorders
- e. drug discovery
- f. other

15 Physiology and aging

- a. stress response
- b. metabolism
- c. nutrition
- d. nutrient sensing
- e. endocrine function
- f. dietary restriction
- g. oxidative damage
- h. physiology of adult organs
- i. other