



International “Stress and Behavior” Society (ISBS)

9th One-day Zebrafish Behavioral Neuroscience and Neurophenotyping Workshop (ZB2N-2015) In conjunction with ISBS-2015 meeting

Miami, FL, USA, June 24, 2015

Venue: Courtyard Miami Downtown/Brickell Area, 200 SE Second Avenue, Miami, FL, USA

Topics

- Introduction to behavioral ecology of zebrafish
- General motor phenotypes
- Neurotoxicity models
- Anxiety and fear-related behaviors
- Social phenotypes: shoaling and social preference
- Memory and Learning
- Predator avoidance behavior
- Depression-like phenotypes
- Drug abuse and withdrawal
- Genetic/strain differences
- Aggression and boldness phenotypes
- Advanced video-tracking and 3D phenotyping
- High-throughput small molecule screens
- Zebrafish models of psychoses
- Hallucinogenic and stimulant drugs' effects
- Measuring zebrafish body coloration responses
- Biomarkers: CNS *c-fos*, *egr*, whole-body cortisol
- Enhancing zebrafish research with online databases



General Introduction: As more and more labs are establishing zebrafish (*Danio rerio*) projects, zebrafish are rapidly becoming a popular model organism for neuroscience research. This day-long ISBS course consists of a series of lectures covering major neurobehavioral domains and advanced phenotyping techniques for probing normal and pathological behaviors in zebrafish. The lectures will be followed by informal breakout sessions discussing the practical application of zebrafish screens, 2D and 3D behavioral analyses, video-tracking tools, and future new directions in the field. Workshop participants will also have the opportunity to present their data, discuss their research problems, and obtain expert consultation from workshop organizers.

Organizers: The workshop is organized by the International “Stress and Behavior” Society (ISBS), as well as by the Zebrafish NeuroPhenome Project (ZNP) and the International Zebrafish Neuroscience Research Consortium (ZNRC).

Tentative Program:



09.00-09.20 Welcoming and workshop orientation

09.20-10.00 Lecture 1

10.00-10.40 Lecture 2

10.40-11.00 Coffee break

11.00-11.40 Lecture 3

11.40-12.20 Lecture 4

12.20-01.20 Lunch break (free time)

01.20-02.20 Topic 1: Cortisol extraction and assays

02.20-03.20 Topic 2: Video-tracking, 3D visualization and large-scale data mining

03.20-03.40 Coffee break

03.40-04.40 Group discussion, consultations and “Ask-the-Expert” session

04.40-05.00 Concluding remarks

Workshop Registration: Registrations are accepted on a first-come, first-served basis until all seats are reserved. *The course is limited to 15 participants on each day, so please register early.*

Registration form*

To register, please fill in the following registration form, copy/paste it and email to the Workshop Secretariat at info@stressandbehavior.com:

- First name: _____
- Last name: _____
- Degree: _____
- Position: _____
- Registration category (see list below): _____
- Affiliation: _____
- Full postal address: _____
- Telephone: _____
- E-Mail: _____
- Web-site: _____
- Preferred date(s): please indicate your first and second choices: _____

* Registration fee includes full access to all lectures and workshop activities, e-version of the “Zebrafish Protocols for Neurobehavioral Research” book (Humana Press, 2012), coffee-breaks, proceedings (abstract book), handouts and other course materials.

Registration Fees:

Post-docs, Staff and Faculty:

- | | |
|---|------------|
| • Early registration, ISBS member (before March 31, 2015) | 180.00 USD |
| • Late registration, ISBS member (after March 31, 2015) | 220.00 USD |
| • Early registration, ISBS non-member (before March 31, 2015) | 220.00 USD |
| • Late registration, ISBS non-member (after March 31, 2015) | 250.00 USD |

Reduced registration for under- and graduate students:

- | | |
|---|------------|
| • Early registration, ISBS member (before March 31, 2015) | 130.00 USD |
| • Late registration, ISBS member (after March 31, 2015) | 150.00 USD |
| • Early registration, ISBS non-member (before March 31, 2015) | 160.00 USD |
| • Late registration, ISBS non-member (after March 31, 2015) | 180.00 USD |

Cancellation Policy and Payment:

Registration fees are non-refundable but can be transferred to another delegate or credited towards any forthcoming ISBS-organized event. Once we received your registration payment, the Registration Confirmation/Receipt will be sent to you by email. Only payments from pre-registered delegates will be accepted. There will be no registration on site.

Abstract Submission:

Workshop participants may choose to present the abstract of their zebrafish research for the group discussion session, or can attend the workshop without presenting the abstract. Only one abstract is accepted per each registered participant. All abstracts must be written in English (1 page A4 in Word format, Times 12 pt, 1.5-spaced) and consist of the following sections:

1. **Title of the abstract:** ALL CAPITALS
2. **Authors** (e.g., AB Smith, DJ Kalm), presenting author always first
3. **Organization(s):** e.g., Texas State University, Texas, USA
4. **Body** (with mandatory sub-sections):
 - Introduction:
 - Methods:
 - Results and discussion:
 - Research support: This research was supported by XXX, YYY and ZZZ.

! Please email the abstract to the Workshop secretariat at info@stressandbehavior.com by May 1, 2015

Contact Information:

Workshop Secretariat:

ISBS Secretariat, 309 Palmer Court, Slidell, LA, 70458, USA
Tel: 240-899-9571
E-mail: info@stressandbehavior.com
www.stress-and-behavior.com

