



2nd Zebrafish Behavioral Neuroscience and Neurophenotyping Workshop – ZB2N2012 ***New Orleans, LA***

Dates (pre-SfN): **October 11, 2012 (10 am-6 pm) OR**
October 12, 2012 (10 am-6 pm)

Dates (post-SfN): **October 18, 2012 (10 am-6 pm) OR**
October 19, 2012 (10 am-6 pm)

Enhance your SfN2012 experience in New Orleans with a one day Zebrafish Behavioral Neuroscience and Neurophenotyping Workshop (ZB2N2012)

Topics

- Introduction to behavioral ecology of zebrafish
- Establishing a zebrafish colony in your lab
- General motor phenotypes
- Neurotoxicity models
- Anxiety and fear-related behaviors
- Social phenotypes: Manual and automated analyses of shoaling and social preference
- Memory and Learning
- Predator avoidance behavior
- Depression-like phenotypes
- Drug abuse and withdrawal
- Genetic/strain differences
- Aggression and boldness phenotypes
- Zebrafish behavioral syndromes
- Advanced video-tracking techniques
- Three-dimensional neurophenotyping approaches
- Using zebrafish in high-throughput small molecule screens
- Zebrafish models of psychoses
- Hallucinogenic, anxiolytic and antidepressant drugs' effects
- Measuring zebrafish body coloration: manual and automated analyses
- Physiological biomarkers: brain *c-fos* and *egr* expression, whole-body cortisol
- Ethograms
- Enhancing zebrafish neurobehavioral research with online databases and tools

General Introduction: As more and more labs are establishing zebrafish (*Danio rerio*) projects, zebrafish are rapidly becoming a popular model organism for neuroscience research, as more and more labs are establishing zebrafish projects. This day-long 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 discuss their own research problems, and obtain expert consultation from workshop organizers.

Organizers: The workshop will be organized by Prof. Allan V. Kalueff, PhD (Department of Pharmacology and Neuroscience Program, Tulane University, New Orleans, LA). Dr. Kalueff is a recognized zebrafish neuroscientist, and author over 30 zebrafish articles and 3 recent zebrafish neuroscience books. He is also Chair of Zebrafish NeuroPhenome Project (ZNP), Zebrafish Neuroscience Research Consortium (ZNRC) and ZENEREI Institute. He will be joined by members of his lab.

Program:

10.00-10.20 Welcoming and workshop orientation

10.20-11.00 Lecture 1

11.00-11.40 Lecture 2

11.40-12.00 *Coffee break*

12.00-12.40 Lecture 3

12.40-13.20 Lecture 4

13.20-14.20 *Lunch break (free time)*

14.20-15.20 Lab Demonstration 1: Cortisol extraction and assays

15.20-16.20 Lab Demonstration 2: Video-tracking, 3D visualization and large-scale data mining

16.20-16.40 *Coffee break*

16.40-17.40 Group discussion, consultations and “Ask-the-Expert” session

17.40-18.00 Concluding remarks and Mini-reception

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, and email it 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: _____
- Date (10/11, 10/12, 10/18 or 10/19) – please indicate first and second choices: _____

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

Registration Fees:

Post-docs and Faculty:

- Early registration, SfN member (before Sept 25) - 180.00 USD
- Late registration, SfN member (after Sept 25) - 220.00 USD
- Early registration, SfN non-member (before Sept 25) - 220.00 USD
- Late registration, SfN non-member (after Sept 25) - 250.00 USD

Reduced individual registration for under- and graduate students:

- Early registration, SfN member (before Sept 25) - 120.00 USD
- Late registration, SfN member (after Sept 25) - 150.00 USD
- Early registration, SfN non-member (before Sept 25) - 150.00 USD
- Late registration, SfN non-member (after Sept 25) - 180.00 USD

Cancellation Policy and Payment: Registration fees are non-refundable. Once we received your registration payment, the Registration Confirmation/Receipt will be sent to you by post and email. Only payments from pre-registered delegates will be accepted. There will be no registration on site.

Abstract Submission

Workshop participants may present the abstract of their zebrafish research for the group discussion session, or 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 October 4, 2012

Accommodation: Holiday Inn - Downtown Superdome, 330 Loyola Avenue, New Orleans, Louisiana 70112. Holiday Inn is a business-friendly hotel in New Orleans's Downtown, close to the Superdome, New Orleans City Hall, Bourbon Street, Jackson Square, Riverwalk Marketplace and New Orleans Convention Center. More information about the hotel can be found at www.hi-neworleans.com (please make your accommodation reservation with the Workshop Secretariat directly, to ensure special rates)

Contact Information:

Workshop Organizer: **Dr. Allan V. Kalueff, PhD**
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