

Tentative Outline
“Special Issue for Current Psychopharmacology”

Guest Editor(s):
Robert T. Gerlai

Zebrafish Psychopharmacology

Aims & Scope:

The zebrafish has been in the forefront of genetics and developmental biology for the past four decades, but more recently this species has been gaining popularity in psychopharmacology too. There is a remarkable upsurge of studies that focus on developing novel behavioral methods and on the characterization of numerous behavioral features of this species. This new field is also enriched by the realization that most drugs and compounds developed for mammalian systems, including the mouse, the rat and human, work effectively in zebrafish too, suggesting significant evolutionary conservation across a broad spectrum of mechanisms and brain function related phenomena. Briefly, we are witnessing a small revolution in which zebrafish a simple, cheap and prolific little vertebrate is facilitating efficient and powerful drug screening. The proposed special issue will sample this upcoming, but already quite large field, zebrafish psychopharmacology, and will provide a snapshot of some of the most promising current discoveries that focus on modeling prevalent human neuropsychiatric conditions and disorders.

Key words:

Alcohol, anxiety, depression, epilepsy, fear, psychopharmacology, social behavior, stress, ,zebrafish

Subtopics:

- Psychopharmacology of acute and chronic alcohol exposure in zebrafish
- Psychopharmacology of depression in zebrafish
- Antidepressants, are there good zebrafish models?
- Psychopharmacology of taurine in zebrafish
- Modeling anxiety in zebrafish and the effects of drugs
- Handling stress, and the context specific psychopharmacology of anxiety
- Psychopharmacology of social behavior and the effect of isolation
- Seizure models in zebrafish
- Natural extracts and the psychopharmacology of epilepsy
- Drug screening strategies: The top down versus the bottom up approach in zebrafish

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Schedule:

Manuscript submission deadline: Jan 31, 2016

Peer Review Due: March 15, 2016

Revision Due: Apr 15, 2016

Notification of acceptance by the Guest Editor: Apr 20, 2016

Final manuscripts due: Apr 20, 2016

Final date of Submission of Special issue: **Apr 20, 2016**