BioMed Research International

Special Issue on Circadian System Development and Plasticity

Call for Papers

Circadian clocks drive 24 h oscillations in physiology and behavior from algae to humans, using light cycles as the main synchronizing input. The questions of where, when, and how these rhythms take place have inspired amazing advances in the field of circadian biology, resulting in the fine elucidation of the major molecular features. Nevertheless, it is of special interest to continue our efforts to understand the cellular, molecular, and genetic mechanisms behind the ontogeny and plasticity of circadian clocks. This special issue anticipates attracting those investigators in the field willing to contribute with original research articles as well as review articles that question or address current concepts on the ontogenetic processes involved in circadian timing systems, taking advantage of the state-of-the-art technology and model organisms available. Potential topics include, but are not limited to:

- Recent advances in cellular, molecular, and genetic mechanisms responsible for the establishment and maintenance of circadian phenotypes
- Crosstalk between ontogenetic networks and circadian clock machinery
- Influence of internal and external signals on the initiation and persistence of circadian oscillations
- Structural and functional plasticity throughout circadian timing system development
- Developmental disorders with circadian implications
- Cellular and animal models to study ontogeny and plasticity of circadian clocks
- Latest technologies to further understand mechanisms behind circadian phenotypes
- Latest computational approaches in the field of circadian clock research

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Manuscript Due	Friday, 25 October 2013
First Round of Reviews	Friday, 17 January 2014
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