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EPJ Nonlinear Biomedical Physics

Thematic series on Systems Biology and Spatiotemporal Patterns

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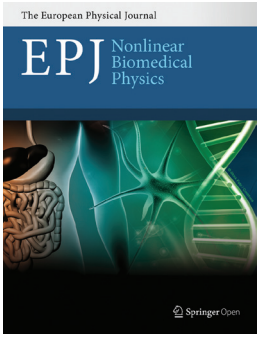

Incorporating the spatiotemporal organization of biological systems is a major challenge for Systems Biology. At the same time, such patterns, arising from the local interactions of the system's constituents, are an important mode of organization in biology. Spatiotemporal patterns form within single cells or in a population of cells according to the intrinsic laws of protein-protein interactions, intracellular feedback loops and (on the multicellular level) cell-cell communication. The patterns change systematically with the parameters of regulation. For Systems Biology, these patterns can thus serve as a 'microscope' for underlying forms of regulation.

This thematic series, with the section editorial board for Systems Biology and Dynamical Diseases as guest editors, explores the potential of self-organized patterns for Systems Biology.

Both review articles and original research papers are welcome.

The editorial board welcomes pre-submission inquiries based on extended abstracts.

The deadline for full manuscript submission based on accepted abstracts is January 31, 2014.

Submission Schedule

► Full manuscript submission: January 31, 2014.

Submission Instructions

Before submission, authors should carefully read over the 'Instructions for Authors', which are located at http://www.epjnonlinearbiomedphys.com/authors/instructions. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at http://www.epjnonlinearbiomedphys.com/manuscript according to the submission schedule. They should choose the section 'Systems Biology and Dynamical Diseases' and then choose the subsection ´Thematic series: Systems Biology and Spatiotemporal Patterns´. In addition, they should specify the manuscript as a submission to the ´Thematic series on Systems Biology and Spatiotemporal Patterns´ in the cover letter.