

IOS Press presents

In Silico Biology

Journal of Biological Systems Modeling and Simulation

IOS Press 2015

Announcing the re-launch of *In Silico Biology*



Computer-based modeling and simulation of biological systems has over the past decade evolved into a far-reaching discipline contributing to significant innovation in fast-paced fields of Systems Biology, Synthetic Biology and Quantitative Biology.

The newly appointed Editors and IOS Press are proud to announce that the journal *In Silico Biology* is now devoted exclusively to the rapid publication of biological systems modeling and simulation research.

www.insilicobiologyjournal.com



In Silico Biology

Journal of Biological Systems Modeling and Simulation

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Aims & Scope

In Silico Biology is a scientific research journal aiming to advance the use of computational models and simulations in studies of complex biological phenomena. We publish peer-reviewed leading-edge biological, biomedical and biotechnological research in which computer-based (i.e., "in silico") modeling and analysis tools are developed or applied to generate new knowledge about biological systems dynamics, design and control.

Studies published in *In Silico Biology* generally use mechanistic models to gain quantitative insights into molecular regulatory networks, cell physiology, tissue dynamics and organ systems. Specific areas of interest include signal transduction and information processing, gene expression and gene regulatory networks, metabolism, differentiation and morphogenesis, among others. We also publish foundational research in which novel algorithms are developed to facilitate modeling and simulations. Such research must demonstrate application to a concrete biological problem.

In Silico Biology frequently publishes special issues on seminal topics and trends. Special issues are handled by Special Issue Editors appointed by the Editor-in-Chief. Proposals for special issues should be sent to the Editor-in-Chief.

The term "in silico" is a pendant to "in vivo" (in the living system) and "in vitro" (in the test tube) biological experiments, and implies the gain of insights by computer-based simulations and model analyses.

The journal *In Silico Biology* was founded in 1998 as a purely online journal for computation-based descriptions of biological systems in general. IOS Press became the publisher of the printed journal shortly after.

A revision in 2011 of priorities and directions led to the establishment of an independent Advisory Board who helps define the current Aims and Scope and publishing policies. *In Silico Biology* is now a journal dedicated exclusively to biological systems modeling and simulations.

The revision processes also saw significant changes to the Editorial Board, and IOS becoming the sole publisher responsible for both the online and print version of the journal. The previous online publisher, Bioinformation Systems, maintains a website containing studies published between 1998 and 2010 for archival purposes.

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Headquartered in Amsterdam with satellite offices in the USA, Germany, India and China, IOS Press has established several strategic co-publishing initiatives. Notable acquisitions included Delft University Press in 2005 and Millpress Science Publishers in 2008.

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