

*International Journal of*

# Computational Biology and Drug Design

Official Journal of International Society of Intelligent Biological Medicine

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# Scope of the Journal

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*IJCBD, an International Society of Intelligent Biological Medicine official journal, bridges the gap between two very important, complementary disciplines, computational biology and drug design. Through advances in high-throughput genome sequencing and digital imaging technologies, biocomputing, drug design and medical research have unfolded new, predictive sciences such as genomics, proteomics, lipidomics, metabolomics, cytomics and pharmaconomics. These promote new computational, statistical and biomedical approaches to drug design/development, besides unleashing the potential of significantly more accurate, effective personalised diagnosis, therapeutics and patient care.*

## Topics covered include:

- Biomolecular dynamics, biomolecular/phylogenetic databases
- Protein docking and ligand-receptor interactions
- High-throughput drug screening, drug discovery, drug design
- Biolanguages, interoperability in biodatabases, bioontology and data mining
- Identification/classification of genes, sequence search and alignment
- Protein structure prediction and molecular simulation
- Molecular evolution/phylogeny, functional genomics/proteomics
- Gene expression analysis, microarray technologies
- Bioinformatics engineering, biodata visualisation, biomedical data engineering
- Systems biology, algorithms, modelling/simulation of biosets
- Biomarkers of toxicity
- Cellular signalling/communications, cell engineering, molecular/cellular systems
- Biological systems/models, engineering models in biomedicine
- Monte Carlo simulation and biological modelling
- Body and cell biosignatures, biomarkers



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