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### **International Journal of Computational Bioinformatics and In Silico Modeling**

(Formerly *Journal of Bioinformatics and Research*) covers all aspects of latest research in computational studies in the fields of biology, bioinformatics and cheminformatics, including informatics in medicine and pharmacy.

Topics include but not limited to

- Databases
- Sequence analysis and alignment
- Molecular Modeling and Simulation
- Computational and statistical methods for the analysis of biological data
- Gene Identification and Annotation
- Gene Expression and Microarrays
- Data Visualization
- Data Mining
- Motif and pattern discovery
- DNA Assembly, Clustering, and Mapping
- Biomedical Image Processing
- Molecular Evolution and Phylogeny
- Taxonomy
- Functional genomics, proteomics
- Protein-protein, protein-ligand interactions
- Protein structure prediction
- Post-translational modifications
- analysis of heterogenous information
- ontologies, protein networks
- Clinical informatics
- Systems Biology
- Computational Biology
- Computational Chemistry
- Computational Biophysics
- Cheminformatics and Drug Design
- In silico ADME/Tox prediction
- Experiments integrated with computational analysis
- Translational research in bioinformatics

## Cover Letter & Referees:

A cover letter addressing to the editor-in-chief (Dr. Rayan Anwar) or associate editor (Dr. Padavala AB) should be sent along with the manuscript. It should include corresponding author's complete address, affiliations and contact details with text specifying the significance of the work.

A statement implying that 'the work submitted to the journal has not been published before and that it is not under consideration for publication in any journal' should be written in the cover letter.

Download sample [Cover Letter](#) here.

The authors are requested to suggest 2 or 3 potential reviewers in the subject to speed up the reviewing process. However, please note that it is not mandatory.

## MANUSCRIPT PREPARATION

A submission check list is available to help authors for relevant data and information.

### File Formats

- Microsoft Word (.doc or .docx)
- Portable Document Format (.pdf)

### General Formatting

- Document should be single-column text without manual hyphenating at line breaks
- Use double line spacing throughout the manuscript.
- Font type should be Arial 10pt
- Use "symbol" font type for greek/special characters
- Numbers, either at the beginning of the paragraph or within the text should be elaborated, if it is less than ten

### Figures

*Format:* GIF, JPEG or TIFF

*Resolution:* atleast 200 pixels/inch

Attach figures as separate files

### Supporting Data

All supporting data related to the manuscript must limit the file size to be not more than 10MB and the authors must include a short description of the supporting information files in the main manuscript.

### Data for Review-only

Any other relevant information associated with the manuscript data must be submitted as 'Review-only' material (previous reports, permission letters, related data etc.).

## RESEARCH PAPERS

Manuscripts submitted to the **International Journal of Computational Bioinformatics and In Silico Modeling** as full length research papers should be formatted as given below:

- » Title
- » Authors Names and Affiliations
- » Abstract
- » KeyWords
- » Introduction
- » Materials and Methods
- » Results and Discussion
- » Conclusions
- » Acknowledgements, if any
- » References

### **Title**

The title should be clear, short and informative. As far as possible, abbreviations should be avoided. If used, the name should be first indicated in full; followed by the short form.

### **Authors Names and Affiliations**

Provide names of all authors who have made substantial contributions to the work with their first name and last (family) name and designate the corresponding author with an asterisk. Below this, the complete institutional address should be given. Arabic numerals should precede the address and place them as superscript after the respective author's name.

### **Running title**

A running title is mandatory and should not exceed 50 characters and spaces.

### **Abstract**

The abstract should not exceed 350 words. The abstract should not be structured and clearly describe the major findings reported in the manuscript. Avoid using citations or references in the abstract. Standard abbreviations such as ATP or DNA need not be defined; however, a list of non-standard abbreviations is encouraged and should be elaborated in parentheses the first time it is used in the text.

### **KeyWords**

Authors are requested to supply 3 to 6 keywords separated by a semicolon that will provide indexing references to the article.

### **Introduction**

The introduction should outline the background of the research, purpose, significance and should include the rationale of the work being reported.

### **Materials and Methods**

Authors should describe the experimental methods employed in the work in sufficient detail. Use of subheadings is encouraged. The statistical method and level of significance, if any, should be stated clearly.

## Results and Discussion

Results and discussion should be clear and precise. The results should be explained with respect to the findings in authors' experiments. Information provided in tables or figures should not be reiterated in the text. Include subheadings for proper explanation of results.

## Conclusions

Present the major interpretations and conclusions of the paper.

## Tables

Tables should be kept to a minimum, inserted at appropriate places in the text and it should have only top header and bottom borders. Each table should be numbered consecutively in Arabic numerals and supplied with a heading on the top of the table (For example, Table 1: Heading...).

## Figures

Figures should be of high resolution (300dpi) and attach them as separate files either in GIF or JPEG formats or embed at appropriate places in the text. Use Arabic numerals to designate figures (For example, Figure 1: Heading...). When referring figures in the text, authors are encouraged to cite them as Fig.1 and so on. Description of the figure should be given below each figure.

## References

References should be numbered in square brackets (for example: [5], [7-9], [5, 13]) and listed at the end in the order of appearance in the text. Unpublished or submitted manuscripts should not be included in the reference list. When there are more than three authors, then the three author's name should be mentioned followed by 'et al'. Journal names should be abbreviated according to Chemical Abstracts. Authors are fully responsible for the accuracy of the references.

## Web References

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## Reference Style

- Needleman SB and Wunsch CD (1970). A general method applicable to the search for similarities in the amino acid sequence of two proteins. *J Mol Biol.* 48: 443-453
- Ecker K and Welch L (2009). A concept for ab initio prediction of cis-regulatory modules. *In Silico Biol.* 9: 24
- Tenover FC (2006). Mechanisms of antimicrobial resistance in bacteria. *Am J Med.* 119 (6, Suppl 1): S3-10
- Gehlhaar DK, Verkhivker G, Rejto PA et al. (1995) Docking Conformationally Flexible Small Molecules into a Protein Binding Site through Evolutionary Programming. *Proceedings of the Fourth International Conference on Evolutionary Programming.* 615-627
- Lewin B. Signal transduction. In: Lewin B. *Genes VI.* Oxford, New York. Oxford University Press. 1998: 1073-1077, 1083

## REVIEW ARTICLES

These articles should showcase the developments in the field of study that appeared over the past few years. They may be divided under headings and subheadings.

- Less than 3000 words excluding the title page, abstract, references, tables and figure legends
- Tables and figures combined should not be more than 6 and
- no more than 50 references

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