The aims of Briefings in Bioinformatics is to provide an indispensable resource for the experimental practitioner seeking awareness of the disparate sources of data and analytical tools of contemporary biology, biotechnology and medicine based on the molecular level. This includes all areas of genomics, proteomics, metabolomics, interactomics and network biology, imaging, systems biology, chemoinformatics, computational biology and clinical/medical informatics that have a molecular foundation to the study. Large-scale instrumentation and computerisation is reducing the time that needs to be spent in the laboratory. Instead, the rate-limiting step is the analysis and interpretation of data. The journal provides topical reviews of new methodologies as they become established.

The Editors, Martin Bishop and Russ Altman, welcome the submission of review papers and case studies for publication. Essential criteria for the publication of papers are that they provide practical guidance to the users of bioinformatics software and databases to supplement available manuals and tutorials, providing a brief conceptual review and overview of the problem addressed, its solution, dynamic range and limitations. We publish reviews of clearly defined subject areas for both experimental biologists and bioinformatics specialists. Reviews may be broader or more narrowly focussed but must cover a variety of approaches to a very well-specified biological problem or research area. We do not publish work on new methods that have not yet been described elsewhere. Please do not submit manuscripts concerning original research as they will be immediately rejected.

Some areas that members of the Editorial Board have identified as important and presently under represented in the pages of the Journal include the complex fields of epigenetics and the construction of evolutionary models and the elucidation of evolutionary relationships. Methodological approaches of interest include software comparison and benchmarking, data cleaning and curation, accuracy of predicted and extracted information, ontologies and text-mining, solutions that allow for the large-scale analysis of biological data in reasonable time (high performance computing solutions and cloud systems), standards, training and change management activities, and the determination of causal relationships from data. There was specific mention of the use of ontologies for semantic-based analysis of molecular data and interaction networks, methods and tools for the automatic or semiautomatic annotation activities, and the determination of causal relationships from data. Methodological approaches of interest include software comparison and benchmarking, data cleaning and curation, accuracy of predicted and extracted information, ontologies and text-mining, solutions that allow for the large-scale analysis of biological data in reasonable time (high performance computing solutions and cloud systems), standards, training and change management activities, and the determination of causal relationships from data.

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Types of Submission

Submissions of the following types are accepted for review in the Journal:

- Review articles (2000–7000 words)
- Protocols for solving a specific problem using different sets of programs (2000–5000 words)
- Case studies in biological research applied to clinical practice (2000–5000 words)
- Opinion articles: topical or controversial areas that do not warrant a full review (500–1000 words)
- Letters to the Editor (relating to a topic previously published in the Journal) (500–1000 words)
- Software and website reviews (by authors other than the originator) (500–1000 words)
- Book reviews (500–3000 words)
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