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Frontiers in Biomedical Informatics

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The International Journal of *Biomedical Informatics* provides a platform for interdisciplinary research that applies software or computational methods to understand living systems at the molecular and cellular levels.

In recent years, biomedical informatics has experienced significant research advancements due to progress in information technology, data science, and healthcare. This interdisciplinary field has revolutionized healthcare by utilizing data-driven approaches to improve patient outcomes, enhance clinical decision-making, and advance biomedical research. Noteworthy research developments in biomedical informatics include the integration of multimodal data, real-time data analytics and monitoring, genomics and precision medicine, clinical decision support systems, and machine learning and artificial intelligence applications for disease diagnosis and patient outcome prediction.

These research advancements have the potential to transform healthcare by enabling evidence-based decision-making, personalized medicine, and improved patient outcomes. Further research in this field will advance our understanding of diseases, enhance healthcare delivery, and contribute to innovative solutions for better healthcare management.

The journal of *Biomedical Informatics* aims to publish advanced research and studies on technical innovations in medical informatics. The scope of *Biomedical Informatics* includes, but is not limited to, the following fields and theme topics:

- Methods for integrating heterogeneous healthcare data sources
- Biomedical data analytics and machine learning
- Clinical decision support systems
- Biomedical natural language processing (NLP) and text mining
- Biomedical imaging informatics
- Computational approaches for precision medicine applications
- Genomic and phenotypic data analysis
- Translational bioinformatics for targeted therapies
- Systems biology
- Analysis of next-generation sequencing data
- Computational medicine
- Digital health

- Pharmacogenomics
- Health informatics
- Pathogen genomics
- Cancer genomics
- Host-pathogen interactions
- Gene and protein networks
- Single-cell bioinformatics
- Spatial informatics
- Epigenetics analysis
- Proteomics analysis
- Multi-omics analysis

The editorial board of *Biomedical Informatics* comprises pioneers in health informatics, genomics, proteomics, epigenetics, and multi-omics analysis. Their expertise and insights will drive the next generation of developments in biomedical informatics.

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We eagerly anticipate productive interactions with authors and readers in the development of the emerging and fascinating field of biomedical informatics.