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## Development and Application of Bioinformatics in Personalized Medicine

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Deadline for manuscript  
submissions:

**closed (5 February 2023)**

### Message from the Guest Editor

Technological breakthroughs in **omics** have boosted the domains of Clinical -omics – the combined investigation of the human genome, proteome, and metabolome for clinical applications – and as a result, the emergence of **Clinical Bioinformatics** is prevalent.

This Special Issue aims to familiarize researchers with the latest advances in **applying bioinformatics** to promote and improve personalized medicine, approaches taking advantage of modern high resolution -omics data.

Research areas may include (but not limited to) the development and utilization of bioinformatic approaches to **personalized medicine** for the following:

- Personalized treatments, big -omics data
- Development of molecular disease signatures
- Disease-specific knowledge, omics databases, and biomarker databases
- Multi-omics integrations for disease characterization and treatment
- Discovery of single or multi-omics disease biomarkers
- Imaging techniques and analysis
- Algorithms for -omics data analysis and integration
- Single-cell -omics and bioinformatics
- Development of Polygenic Risk Scores related to disease
- Pharmacogenomics, pharmacoproteomics, and pharmacometabolomics



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**Special** Issue



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## Message from the Editor-in-Chief

*Journal of Personalized Medicine* is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on “omics”-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

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