Development and Application of Bioinformatics in Personalized Medicine

Guest Editor:

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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

Special Issue

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Message from the Editor-in-Chief

Journal of Personalized Medicine (*JPM*; ISSN 2075-4426) is an international, open access journal aimed at bringing all aspects of personalized medicine to one platform. *JPM* publishes cutting edge, innovative preclinical and translational scientific research and technologies related to personalized medicine (e.g., precision medicine, pharmacogenomics/proteomics, systems biology, 'omics association analysis). *JPM* is covered in Scopus, the Science Citation Index Expanded (SCIE), PubMed, PMC, Embase, and other databases.

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