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# **Bioinformatics and Artificial Intelligence for Precision Medicine**

Guest Editor:

#### Dr. Fuhai Li

Institute for Informatics, Department of Pediatrics, Washington University in St Louis, St Louis, MO 63108, USA

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# **Message from the Guest Editor**

Along with the advance of next-generation sequencing (NGS) technology, large-scale, tissue-level, and single-cell omic datasets have been being generated to characterize the dysfunctional molecular mechanisms within cells and the microenvironments of complex diseases, like cancer. neuroscience, aging, Alzheimer's disease (AD), and inflammation However, it remains challenging to integrate and interpret the omic data for precision medicine. Precision medicine involves identifying computational models that take the omic data as the input and outputs a list of key targets, signaling pathways, and potentially effective medications. Thus, bioinformatics and artificial intelligence (AI) are critical and must be improved to mine the knowledge from large-scale omic datasets. Therefore, novel bioinformatics and AI models are urgently needed for integrating and interpreting the omic datasets to facilitate the development of precision medicine. Herein, we invite studies making use of bioinformatics and AI models to analyze the biomedical data to identify the key disease signaling targets, signaling pathways, predict/reposition effective drugs or synergistic drug combinations.













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## Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

# Message from the Editor-in-Chief

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