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# **Statistical Methods and Applications in Genetics and Genomics**

Guest Editors:

#### Prof. Dr. Zilin Li

School of Mathematics and Statistics, Northeast Normal University, Changchun, China

#### Dr. Xihao Li

Department of Biostatistics and Department of Genetics, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Deadline for manuscript submissions: 1 August 2024

### Message from the Guest Editors

Dear Colleagues,

High-throughput sequencing technologies have catalyzed the rapid growth of large-scale complex genetics, genomics and multi-omics data. However, the scale and complexity of such data pose significant challenges to traditional computational and statistical methods, both in terms of computational scalability and statistical efficiency.

To address these issues, this Special Issue aims to bridge this gap by providing a collection of articles that focus on innovative statistical methodologies and their applications in genetics genomics, and multi-omics data. This Special Issue will feature a selection of papers demonstrating the integration of advanced mathematical theories, statistical and machine/deep learning methods, and computational algorithms to address complex problems in analyzing genetics, genomics and multi-omics data. The topics covered include statistical genetics and genomics, population genetics, bioinformatics, and computational biology. The objective is to advance the mathematical and statistical foundations of genomics research and enhance our understanding of the genetic underpinnings of various diseases and traits.



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#### Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

#### Message from the Editor-in-Chief

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