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Multi-Omics in Health and Disease

Guest Editors:

Dr. Fiona Browne

Computer Science Research Institute, Ulster University, Newtownabbey, UK

Prof. Dr. Huiru Zheng

School of Computing, Ulster University, Belfast BT15 1AP, UK

Deadline for manuscript submissions:

closed (15 December 2019)

Message from the Guest Editors

Dear Colleagues,

The past decade has seen advances in technologies such as high-throughput sequencing and mass spectrometry, resulting in large-scale production of omic data. Technologies can capture omic data across various cellular levels. However, no one technology can individually capture the full complexity and heterogeneity of disease. To provide a more comprehensive view of human health and disease, the integration of multi-omics data has been proposed to understand, diagnose, and aid in providing targeted treatment/prevention plans to patients. In this Special Issue, we welcome original research and review articles presenting novel computational bioinformatics methodologies and algorithmic approaches that address the challenges in (1) multi-omics and clinical data integration, (2) handling heterogenous multi-omics big data, (3) bioinformatics tools to integrate and visualise multi-omics biological data, (4) multi-omics data sharing, standards, privacy, and protection, (5) applications of multi-omics approaches to improving our understanding of disease mechanisms and their integration into clinical practice.

Dr. Fiona Browne Prof. Huiru Zheng













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Editor-in-Chief

Prof. Dr. Fernando Albericio

School of Chemistry and
Physics, University of KwaZuluNatal, Durban, South Africa
 Department of Organic
Chemistry, University of
Barcelona, Barcelona, Spain

Message from the Editor-in-Chief

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