

## Special Issue

# Identification of Novel Disease Mechanisms and Biomarkers Using High-Throughput Sequencing Techniques

### Message from the Guest Editors

With the rapid development of sequencing techniques, high-throughput sequencing (HTS) is now revolutionizing different aspects of life science and clinical study. The millions of sequencing reads produced by HTS could determine various mutations at the genomic level, accurately quantify gene expression at the transcriptomic level, and identify histone or DNA modification at the epigenomic level. With HTS, various disease (e.g., cancer, diabetes, and arthritis) markers have been developed at different omics levels, which have been used for disease diagnosis, disease prevention, and the prediction of treatment effects. The quickly acquired multi-omics data, together with newly developed algorithms, provide an excellent chance to reveal novel disease markers and the underlying mechanisms. The aim of this research topic includes: (1) Developing new disease markers at various omics levels using high-throughput sequencing; and (2) Using omics data to reveal new mechanisms for disease occurrence or development. This topic covers a broad spectrum of interests, and studies based on wet lab or dry lab results are all welcomed.

### Guest Editors

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### Deadline for manuscript submissions

closed (30 June 2022)



## Life

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