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Bioinformatic Analysis for Rare Diseases

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Deadline for manuscript submissions:

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Message from the Guest Editors

Dear colleagues,

Rare diseases, especially Mendelian and monogenic, have played a critical role in elucidating the genetic basis of human diseases. The development of modern techniques such as next generation sequencing (NGS) combined with the increase of computing power and bioinformatic software development has enabled broader-scale research of rare diseases to better understand their biological mechanisms, genomic and proteomic basis, environment, and the combination of these different contributing factors. Therefore, especially in the light of incomplete clinical penetrance, some rare diseases are increasingly viewed as complex diseases. Large volumes of biological at various levels have been exponentially accumulated over the last decade, including NGS (whole genome/exome sequencing, RNA-seq, DNA methylation), proteomics, and metabolomics. These complex and large data pose challenges for bioinformatic analyses, especially in the interpretation and understanding of biological mechanisms underlying welcome diseases. We of reviews. submissions research articles. short communications, and concept papers.

Dr. Yuval Itan Prof. Hongyan Xu Guest Editors













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Message from the Editor-in-Chief

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