Special Issue

Recent Trends in Computational Research on Diseases

Message from the Guest Editors

Recent advances of information technology brought us a paradigm shift in science, especially in biology and medical field. Statistical methodologies based on high performance computing and big data analysis is now indispensable for qualitative and quantitative understanding of experimental results. Information about amino acid sequences, protein structures and molecular structures are fundamental data for prediction of bioactivity of chemical compounds to screening drugs. On the other hand, cell imaging, clinical imaging and personal healthcare devices are also providing important data concerning human body and diseases. In parallel, various mathematical modelling such as machine learning have developed so rapidly. All types of aforementioned data can be utilized in computational approaches for understanding disease mechanisms, diagnosis, prognosis, drug discovery, drug repositioning, disease biomarkers, driver mutations, copy number variations, Disease pathways and many more. In this Special Issue we are calling papers on novel models, methods, algorithms and important innovations focusing computational research on diseases.

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