Bioinformatics: Present and Future Biotechnology

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Message from the Guest Editors

Bioinformatics, and in broader terms, computer science, has provided a significant speedup in many fields of life sciences thanks to its intrinsic capability of gleaning insights from almost any kind of structured, semi-structured, and unstructured data. As wet-lab technologies evolve, new challenges arise for the bioinformatics community. These include processing and analyzing NGS and single-cell data, drug discovery and repurposing, multi-omics data management and querying, and genomic data integration with clinical information (paving the way for personalized medicine). Consequently, bioinformatics outputs are becoming increasingly crucial for biologists, physicians, and biomedical researchers. So far, every significant advance in genomics has been paired with the development of groundbreaking statistical and computational approaches. We expect this trend to continue in the coming years. In this Special Issue, we welcome contributions in terms of original research articles, reviews, and opinions, concerning a large spectrum of present and future challenges for bioinformatics.

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