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Recent Progress and Challenges of Artificial Intelligence in Bioinformatics and New Medicine

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Message from the Guest Editors

Dear Colleagues,

At present, big data in biology, medical science, and public health are expanding rapidly, accelerating the development of new medicine. Discoveries in novel life sciences and translational medicine are constantly being promoted by the accumulation of big data. The cross-border integration and cross-innovation of the life sciences, medicine, and information science are the engines that push new medicine forward.

The aim of this Research Topic is to showcase advanced artificial intelligence methods and the traditional bioinformatics, data mining, and statistical approaches helpful to discover novel knowledge in life science and new medicine. Topics of interest include, but are not limited to:

Review articles about the recent progress and challenges related to AI methods in bioinformatics and medical science.

Integration of single-cell omics.

Discovering novel knowledge in cancers and other complex diseases.

Exploration of risk factors of complex diseases.

Databases and web servers in bioinformatics.

Tumor heterogeneity and microenvironment.

Deep learning methods in bioinformatics and medical



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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