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New Development and Application of Next Generation Sequencing

Guest Editors:

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Deadline for manuscript
submissions:

closed (21 July 2023)

Message from the Guest Editors

Dear Colleagues,

In the past 10-15 years, the next-generation sequencing (NGS) technologies have revolutionized many fields in biology and medicine. Human genomics demanded new experimental and computational methods and FAIR data infrastructure in order to tackle this next wave of data tsunami. Projects like Human Cell Atlas are linking researchers around the world to share and integrate tissue and organ profiles at single cell level to answer crucial fundamental questions in cancer genetics, neurology, stem cell based treatment, etc. Furthermore, in the areas of plant, animal and microbiome, new long read sequencing technologies and gene editing toolings are being applied routinely to provide unprecedented insight to move the science forward.

In this special issue, we encourage researchers to submit unpublished research work addressing new development and application of NGS including but not limited to: NGS based disease prediction; Personalized cancer treatment; Single cell transcriptomic and spatial transcriptomics; Virus detection and classification; Gene modification using CRISPR/Cas9; Plant genomics; Metagenomics.

Dr. Hailiang Mei
Dr. Andrew P. Stubbs
Dr. Wendi Bacon
Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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