

Special Issue

New Development and Application of Next Generation Sequencing

Message from the Guest Editors

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In this special issue, we encourage researchers to submit unpublished research work addressing new development and application of NGS including but not limited to: NGS based disease prediction; Personalized cancer treatment;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.

Guest Editors

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Deadline for manuscript submissions

closed (21 July 2023)



Life

an Open Access Journal
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Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



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Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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