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Emerging Applications for Next Generation Sequencing

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Deadline for manuscript submissions:

closed (30 April 2018)

Message from the Guest Editors

Huge amounts of data have been, and are being, created by Next Generation Sequencing (NGS) and related technologies, yet we are still far from delivering on the original promise. Sequencing technologies will continue to evolve, get better and cheaper. The holy grail, however, lies in unraveling the information that is contained in the data.

We are just beginning to realize that living systems are so complex that only methods of Artificial Intelligence (AI), particularly machine learning, can help us make significant progress in this endeavor.

With this Special Issue, we invite researchers to present their recent and novel approaches to exploring all-omics data by developing and applying AI methods to Life Sciences. The suggested topics include, but are not limited to, answering the challenges of simultaneously analyzing heterogeneous types of data sets, such as mutations, gene expressions, DNA-protein interactions, methylation, or metabolomics. Likewise, we welcome submissions of studies exploring experiment planning and design using methods from machine intelligence research.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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