



genes



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Bioinformatics and Machine Learning in Disease Research

Guest Editor:

Dr. Natalie A. Twine

1. Transformational
Bioinformatics, Health and
Biosecurity, Commonwealth
Scientific and Industrial Research
Organisation (CSIRO), North
Ryde, NSW 2113, Australia
2. Applied BioSciences, Faculty of
Science and Engineering,
Macquarie University, Macquarie
Park, NSW 2113, Australia

Deadline for manuscript
submissions:

closed (20 December 2022)

Message from the Guest Editor

Genomic data are forecast to be the largest source of Big Data by 2025. When other bioinformatics data are included, the vast volumes of data we have at our disposal become clear. 'Data is the new gold' is often used and speaks to the value we can gain from bioinformatics datasets. To create this value, we need to effectively mine data using innovative machine learning approaches.

Many human diseases are driven by multiple and complex factors, including diabetes, cardiovascular disease, and cancer. In order to understand the complex interplay of genetic and environmental factors driving these diseases, we need data-driven approaches which can cater to large datasets, and machine learning offers us exactly this. Given the huge potential of machine learning and bioinformatics to understand human disease, a Special Issue of the journal *Genes* is being launched. Authors are encouraged to submit original manuscripts describing the utilization of machine learning and bioinformatics to answer scientific questions relating to human disease. Also encouraged are papers describing new methods and reviews or comparisons of machine learning approaches in the context of disease.



mdpi.com/si/116020

Special Issue



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Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

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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Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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