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Biotechnology Tools and Genetic Medicine

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Message from the Guest Editor

Dear Colleagues,

The contemporary field of biotechnology is defined by software or hardware that innovates either by (1) incorporating concepts, strategies or materials discovered in living organisms into a design, or by (2) applying synthetic concepts, strategies, or materials to the solution of a known problem in a biological discipline.

In this Special Issue, we hope to share with the Genes reader community publications that describe or review innovative concepts, strategies, and materials either (1) discovered in biological systems and applied to solve a problem in medicine, or (2) of synthetic origin but useful for solving a problem in medicine. A relevant example of (1), here referred to as “bio-materials”, is modification of natural systems such as viruses, bacteria, enzymes and antibodies in order to cure human disease. A relevant example of (2), here referred to as “bio-applications”, is application of data science and artificial intelligence techniques to the design of technology for disease screening.



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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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