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Systems Immunology Approaches in Infectious Diseases

Guest Editors:

Dr. Lubna Pinky
Department of Pediatrics, University of Tennessee Health Science Center, Molecular Science Building, Room 820, 858 Madison Ave.Memphis, TN 38163,USA

lpinky1@uthsc.edu

Dr. Antonio Riva
Institute of Hepatology (IoH), Foundation for Liver Research, and Honorary Lecturer at King's College London (London, UK)

a.riva@researchinliver.org.uk

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Message from the Guest Editors

With the advent of advanced molecular technologies, a massive amount of immunological data is now available in the field of infectious diseases. Incorporating and applying mathematics, computer science, engineering, and biology, the Systems Biology approach allows a simplified representation of the complex host–pathogen interactions during infections and enhances our ability to investigate and combat diseases.

This research topic will be designed to feature the latest novel findings about molecular and cellular mechanisms of host antiviral defense from high-throughput experimental methodologies to computational and theoretical approaches. All papers will be comprised of multidisciplinary approaches to handling the existing challenges faced in this fast-growing field. The vision of this Special Issue is to bring clinicians; engineers; basic scientists such as biologists, immunologists, physicists, and mathematicians; and big data analytics together to provide readers with the current state of the art of systems biology approaches in understanding immunity against pathogens, and aiding the development of antiviral therapies.

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Editor-in-Chief

Prof. Dr. Chris O'Callaghan
Centre for Cellular and Molecular Physiology, Nuffield Department of Clinical Medicine, University of Oxford, Roosevelt Drive, Oxford, OX3 7BN, UK

Message from the Editor-in-Chief

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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CiteScore (2019 Scopus data): **6.2**, which equals rank 14/203 (Q1) in the category 'General Agricultural and Biological Sciences', rank 36/197 in 'General Biochemistry, Genetics and Molecular Biology' (Q1) and rank 10/45 (Q1) in 'General Immunology and Microbiology'.

Contact Us

Biology
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

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