Special Issue

Design, Synthesis and Bioactivity Evaluation of Target-Based Antiviral Drugs

Message from the Guest Editors

Each year, viral infections including human immunodeficiency virus (HIV), hepatitis B virus (HBV), hepatitis C virus (HCV) and the ongoing COVID-19 virus cause millions of deaths, necessitating efforts to develop novel antivirals. As is well known, target-guided drug design is a powerful approach to developing antiviral agents specifically tailored to a target. The elucidation and visualization of the three-dimensional structure of virus-related proteins has provided valuable insights into their molecular functions and allowed more powerful and reliable target-based design strategies. In this Special Issue, recent endeavors and achievements in the field of antiviral drug research will be primarily outlined. Future directions and perspectives on target-guided antiviral drug discovery and associated challenges are also discussed.

Guest Editors

Prof. Dr. Peng Zhan

Department of Medicinal Chemistry, School of Pharmaceutical Sciences, Shandong University, Jinan, China

Prof. Dr. Xinyong Liu

Department of Medicinal Chemistry, School of Pharmaceutical Sciences, Shandong University, Jinan, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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