

Special Issue

Advances of CRISPR-Cas Systems for Genome Engineering

Message from the Guest Editor

Recent years have seen unrivalled advances in our ability to utilize gene editing technologies due to the emergence of CRISPR/Cas systems. From its discovery as a bacterial defence system, it has evolved into a state-of-the-art tool for introducing gene modifications in a variety of model organisms. Researchers have been working tirelessly on improving the system, ensuring better on-target efficiency and reduced off-target activity, implementing novel systems that reduce the occurrence of deleterious side products and improve on delivery and expression efficacy, all with the common aim to utilize the system as a therapeutic tool. In this Special Issue titled “Advances of CRISPR-Cas Systems for Genome Engineering”, we welcome original and novel research and review articles presenting innovative methodologies utilizing CRISPR-Cas. These can address challenges such as (1) improving the CRISPR system itself, including novel nucleases, base editing, prime editing, and similar systems; (2) refinements on the delivery and expression; and (3) therapeutic applications of CRISPR. We are looking forward to receiving your research article.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2020)



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About the Journal

Message from the Editor-in-Chief

Methods and Protocols (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

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