



Methods for Antifungal Discovery and Development

Guest Editor:

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Message from the Guest Editor

Fungi can cause devastating infections, ranging from site-threatening keratitis to life-threatening invasive disease. The current repertoire of antifungals is unfortunately limited in both scope and effectiveness, as highlighted by the unacceptably high mortalities rates of systemic mycoses overall (25%–90%) and compounded by the emergence of drug resistant *Aspergillus* and *Candida* infections. Thus, improved techniques for identifying and optimizing novel drugs, ensuring their safety, and testing their feasibility in infection models are critical to combat fungal disease.

The aim of this Special Issue is to centralize ideas and methods that span the entire spectrum of antifungal research. This includes primary or review articles covering the following topics: (1) compound discovery; (2) drug optimization (modeling, synthetic chemistry); (3) target deconvolution; (4) pharmacokinetics and toxicity testing; and (5) treatment studies (cell culture or animal infection models). We are also interested in novel forward or reverse genetic approaches (e.g., CRISPR libraries) that allow researchers to identify putative drug targets.





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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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