

Special Issue on
Antimicrobial Drug Discovery

CALL FOR PAPERS

After the discovery of penicillin and related antibiotics we thought we have won the war against pathogenic bacteria. But recent emergence of “superbugs,” bacterial strains resistant to most of the antibiotics, has raised concern among researchers and healthcare professional worldwide. The situation is not very optimistic with respect to pathogenic fungi, viruses, and parasites. For instance, there are no or very few therapies against neglected tropical diseases (NTDs) such as schistosomiasis, leishmaniasis, trypanosomiasis, and leprosy that affect 149 countries and more than a billion people. Similarly, very few new antiviral and antifungal agents have been approved in last few years for clinical use. The situation has worsened as leading pharmaceutical companies are moving away from the antimicrobial research due to the financial reasons. Thus, there is growing need to discover cheap and more effective antimicrobial agents with novel mode of action to tackle the drug resistance problem and fill the gaps in the antimicrobial drug pipeline.

We invite authors to contribute to this special issue of “antimicrobial drug discovery.” This special issue will showcase recent and high quality medicinal chemistry research and review articles related to antimicrobial drug discovery.

Potential topics include but are not limited to the following:

- ▶ Design and synthesis of small molecules, peptides, or peptidomimetics targeting bacterial, fungal, viral, or parasitic infections
- ▶ Discovery of new natural products or natural product inspired molecules exhibiting antimicrobial properties
- ▶ Computational drug design of novel antimicrobial agents
- ▶ Design and synthesis of chemical biology tools for the identification and validation of novel antimicrobial targets
- ▶ Articles reviewing or surveying current trends in the area of antimicrobial drug discovery and understanding of resistance mechanisms

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ijmc/amdd/>.

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First Round of Reviews

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