

Tentative Outline

Special Issue for Current Topics in Medicinal Chemistry

BMS-CTMC-2018-HT-18

Title of Thematic Issue: Current Trends in Anti-Candida Drug Development

Guest Editors: Ashok K Dubey, Rajeev K Singla

Aims & Scope:

Candida spp. inhabit as commensals in various parts of the human body. It usually remains benign. However, infections caused by *Candida* (Candidiasis) have become a major clinical problem and a substantial economic burden due to the emergence of drug resistant strains in recent times. Increased incidences of serious infections like blood stream infections, invasive and biofilm-associated candidiasis have been reported due to rise in immunocompromised population and associated factors. This has augmented morbidity and mortality in human population. Furthermore, it has the capability to infect humans of all age groups.

Extensive use of the antimycotic drugs like polyenes, azoles, echinocandins and their derivative has resulted in pathogen strains with high-level resistance against these drugs. Additionally, severe side effects of these drugs have also remained a point of concern in treatment of candidiasis. Hence, urgent attention of the scientific community is desired for novel approaches in discovery of novel anti-fungal agents, which could effectively address the imminent issues of drug-resistance among *Candida* spp. pathogens and toxicity among the patients.

In view of this, the current thematic issue has been proposed, which aims to put together the current status of the work being undertaken by the scientific community and clinicians towards development of anti-*Candida* drugs. It will cover the critical review articles on the current trends in approach and discovery of new anti-*Candida* drugs.

Keywords: Antifungal agents; *Candida albicans*; Non-albicans *Candida* spp. Drug discovery; Drug resistance; Virulence factors.

Subtopics: (This is tentative list only. Final published issue may have different titles)

The subtopics to be covered within this issue are listed below:

1. Chemical and Biological Approaches in anti-*Candida* drugs development
2. Natural, Synthetic, Semi-synthetic and Computational chemistry of anti-*Candida* agents
3. Virulence Factors Targeted Approach for Drug Development against *Candida* spp. pathogens
4. Critical reviews on the historical, clinical and legal status of anti-*Candida* drugs
5. Pharmacokinetics based analysis for the anti-*Candida* agents
6. Chemistry of *Candida* specific drug delivery systems

Schedule:

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| ✧ Manuscript submission deadline: | 15-09-2018 |
| ✧ Peer Review Due: | 15-11-2018 |
| ✧ Revised Submission deadline | 15-12-2018 |
| ✧ Announcement of acceptance by the Guest Editors: | 25-12-2018 |
| ✧ Final manuscripts to Editor-in-Chief | 1-10-2019 |

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