

Tentative Outline
Special issue for THE NATURAL PRODUCTS JOURNAL

Guest Editor: Anil K. Sharma

Assoc. Editor: Vinod Kumar

**Emerging Azoles: Structure-Function Relationship and Their
Therapeutic Potential**

AIMS & SCOPE

The discovery of the antimicrobial activity of azole compounds had been an important therapeutic intervention for the mankind. However there are still weaknesses in the range and scope of antimicrobial chemotherapy. A new group of azole drugs such as triazoles have been found to possess broad-spectrum antifungal activity but still there are variations in bioactivities and efficacies of the above drugs including fluconazole and Itraconazole. Also because of limited activity and increased toxicity, newer drugs are urgently required especially for infections in immunocompromised patients and for long-term therapy. The thematic issue will uncover many physico-chemical interactions persisting with regards to azoles, structural-activity relationships and more importantly their therapeutic potential. The work will not only enhance and strengthen the understanding of multidisciplinary experts from academia, research and industry to communicate their viewpoints in this special issue of Natural Products Journal but also simultaneously investigate a link between natural and synthetic azoles with regards to their composition, structure and therapeutic potential.

Key Words: Azoles; Bioactivity; Antimicrobial; Therapeutic potential; Broad-spectrum drugs; Immunobiology; Cancer; Metal Regulation; Iron Metabolism; Structure-function

Subtopics:

- Structure-function relationship of Azoles with a broad spectrum antifungal potential
- *Mycobacterium tuberculosis* and Azole resistance
- Anti-HIV agents and Azoles
- Natural versus Synthetic Azoles: structure, composition and therapeutic analysis
- Immunobiology of Azoles and Cancer

- Studying the link between Azole resistance and virulence
- Azole interactions during therapy with Metals
- Iron metabolism versus Azoles
- Inflammation and Azoles

Schedule

- Manuscript submission deadline: July 15,2013
- Peer review due: August 25,2013
- Revision due: September 15,2013
- Notification of acceptance by the Guest Editor: September 30, 2013
- Final manuscripts due: October 31,2013