Tentative Outline

Special Thematic Issue for Current Pharmaceutical Biotechnology

Title of thematic issue: Biotechnological potential of halophiles: characteristics, applications and challenges

Guest Editor: Dr. Mousumi Debnath and Prof. A.K. Paul

Aims & Scope: Halophiles have wide distribution all over the world. They have been a subject of curiosity and interest due to their great diversity, adaptive features, unique genetic and physiological attributes along with industrial potentials. The biotechnological products from halophiles range from industrial enzymes, biopolymers, biosurfactants, pigments and osmolytes. These microbes are also popular for their high efficiency and cost effective applications in environmental processes like, biodegradation and bioremediation. Halophiles are potent source of therapeutics. Many antibiotics from halophilic bacteria have been discovered with potential antagonistic activity against human pathogens. The search for novel drug candidates from these halophiles can be source of cure for many deadly diseases.

Keywords: halophiles, biopolymers, biosurfactants, bioremediation, antimicrobials

Subtopics:

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

- Biodiversity and sustainable exploitation for antimicrobial substances
- Antimicrobial substances and their therapeutic applications
- Antimicrobial interactions and antibiotic resistance
- Genetics, genomics and proteomics in halophilic adaptation.
- Salt tolerance, osmoregulation and metal tolerance,
- Extremozymes with environmental and industrial potentials
- Novel bioactive substances and drug discovery

- ✧ Manuscript submission deadline: August 20, 2019
- ✧ Peer Review Due: September 29, 2019
- ✧ Revision Due: October 18, 2019
- ✧ Announcement of acceptance by the Guest Editors: November 6, 2019
- ✧ Final manuscripts due: December 2, 2019

Guest Editor: Dr. Mousumi Debnath[1] and Prof. (Retd.) A.K. Paul[2]

***Affiliation: [1]Manipal University Jaipur; [2]*Calcutta University**

Email: mousumi.debnath@jaipur.manipal.edu
amalk_paul@yahoo.co.in

Any queries should be addressed to cpb@benthamscience.net