Special Issue

New Research on Fungal Secondary Metabolites, 3rd Edition

Message from the Guest Editor

Fungi, especially higher fungi (ascomycetes and basidiomycetes), have the ability to produce a wide range (over 100,000) of specific pigments, antibiotics, vitamins, and amino acids that are not vital to the fungi's survival itself. Chemically classified as polyketides, terpenoids, non-ribosomal peptides, shikimic acid derivates, and hybrid compounds composed of these units, the compounds are defined as fungal secondary metabolites (FSMs). In addition, FSMs generally possess functions of natural communication signals when in coexistence with microorganisms and plant cells. They exhibit irreplaceable biological activities such as antioxidant, antimicrobial, antifungal, anti-inflammatory, and antitumor effects and also have critical biotechnological applications in agriculture and environmental engineering, as well as in the food, pharmaceutical, and cosmetics industries. Recently, fermentation has become one of the most popular technologies for the successful production of FSMs on a large scale. Therefore, the research and development of fermentation technology with regard to the sustainable application of FSMs has been met with intense interest.

Guest Editor

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Welcome to a new open access journal, Fermentation, which meets the growing need for a high quality peerreviewed international journal with easy access to all researchers globally. We hope that you will share our enthusiasm for this new journal and look forward to working with you to make Fermentation a leader in its field. Your contributions are vital for the success of this new journal. Proposals for editing a special issue for a particular topical area are always welcome.

Editor-in-Chief

Dr. Badal C. Saha
Retired, National Center for Agricultural Utilization Research, USDA-ARS, Peoria, IL, USA

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