

Tentative Outline

Special Issue for Current Metabolomics

Title: Role of Metabolomics in Advancing Bio-fuel Research

Guest Editors: *Anil Kumar & Supriya Ratnaparkhe*

Aims & Scope:

Research in the field of Bio-fuels has gained momentum amongst the scientific society around the globe in recent years. The advantages of bio-fuels include, but are not limited to, it being a cleaner and safer option besides being renewable unlike the conventional fossil fuel. In spite of the advantages offered by bio-fuels there are several technological challenges involved in achieving the production level to meet the increasing demand of fuel. It is an uphill task and requires multidirectional approaches. In this issue, we would like to include articles that reflect the correlation between metabolomics and bio-fuel production. The articles may address current trends such as metabolic engineering of organisms for enhanced fuel production, sugar assimilation, cellulase production; flux analysis; changes in metabolite profiles; synthetic biology; tools and techniques involved in metabolomics studies etc., and other related topics.

Keywords: Bio-fuel, metabolic engineering, synthetic biology, cellulolytic microbes, genetic modification

Subtopics:

- Systems and synthetic biology approaches for enhanced fuel production
- Basic tools in metabolic engineering and synthetic biology approaches in strain engineering for production of biofuels
- Bacterial cellulolytic communities and bacterial cellulases.
- Genetically modified plants for improved biofuel production

Schedule:

- ✧ Manuscript submission deadline: 31st October 2014
- ✧ Peer Review Due: 31st December 2014
- ✧ Revision Due: 30th January 2015
- ✧ Announcement of acceptance by the Guest Editors: 28th February 2015
- ✧ Final manuscripts due: 30th April 2015

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