



BioMed Research International

Special Issue on
Frontiers in the Expansion of Bioproducts

CALL FOR PAPERS

A self-sustainable biorefinery concept would ideally share manufacturing processes to produce bulk chemicals and high market value biobased chemicals at low cost, using cheap substrate and/or processes. However, industrial processes are mostly far from that model, since a lot of bottlenecks arise from each particular bioprocess.

We invite investigators to submit original research articles as well as review articles that will afford advances in bioprocesses for synthesis of cell-derived biobased products, for example, alcohols, ketones, esters, organic acids, biopolymers, enzymes, amino acids, vitamins, or any other molecule of economical relevance. We are particularly in pursuit of new potential technologies and methods leading to an expansion of bioproducts manufacturing worldwide, by assisting in overcoming remaining unsolved challenges of industrial bioprocesses.

Potential topics include, but are not limited to:

- ▶ Development of highly efficient and effective pretreatments, producing less inhibitors
- ▶ Improvement of the enzymatic cocktail production for biomass transformation
- ▶ Enhancement of drop-in biofuels production
- ▶ Development of new synthetic pathways for bioproducts generation
- ▶ Overcoming challenges of industrial processes for biobased products
- ▶ Enhanced recovery of C5 stream from hemicellulose
- ▶ Development of new yeast strains resistant to fermentation inhibitors
- ▶ New downstream techniques for enhanced recovery of bioproducts
- ▶ Development and setting of new bioprocesses
- ▶ Valorization of residues and side streams as alternative fermentation feedstock
- ▶ Scale-up and optimization of the entire bioprocessing value chain
- ▶ Economic analysis of bioprocesses and life cycle assessment of bioproduct synthesis

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/biotechnology/febi/>.

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Manuscript Due

Friday, 25 March 2016

First Round of Reviews

Friday, 17 June 2016

Publication Date

Friday, 12 August 2016