



BioMed Research International

Special Issue on

Thermophiles (Anaerobics) as Cell Factories for the Production of Biofuels and Chemical Building Blocks

CALL FOR PAPERS

Thermophilic archaea and bacteria have gained increased attention for the last decades because of their broad metabolic capacity, for both the production of biofuels (e.g., hydrogen, ethanol, butanol, and methane) and fine chemicals like 1,2-propanediol, 1,3-propanediol, branched-chain fatty acids, and alcohols. We invite investigators to contribute original research articles as well as review articles that will display the state of the art concerning the capacity of thermoanaerobes to produce biofuels, especially from lignocellulosic biomass. Recent investigations on some of the major genera within clostridia show interesting capacity of these bacteria to produce compounds that are of value such as fine chemicals and can be used as building blocks for more complex chemicals such as cosmetics and pharmaceuticals. We are particularly interested in articles that show the metabolic diversity of these bacteria.

Potential topics include, but are not limited to:

- ▶ Recent developments in the production of biofuels from lignocellulosic biomass using thermophilic bacteria
- ▶ Genetic engineering of thermoanaerobes to increase biofuel yields
- ▶ Production of C4 and C5 alcohols with thermoanaerobes
- ▶ Production of 1,2-propanediol
- ▶ Production of 1,3-propanediol
- ▶ Production of organic acids
- ▶ Thermophilic enzymes

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

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Manuscript Due

Friday, 14 October 2016

First Round of Reviews

Friday, 6 January 2017

Publication Date

Friday, 3 March 2017