

Enchi Corporation licenses joint Dartmouth College and ORNL technology

Background

Commercialize BESC-developed technology to meet the goal of making cellulosic biofuels cost-competitive

Approach

- Use of thermophilic bacteria to process biomass without added enzymes and with little or no pretreatment
- Engineered microorganisms to have enhanced tolerance to ethanol

Significance

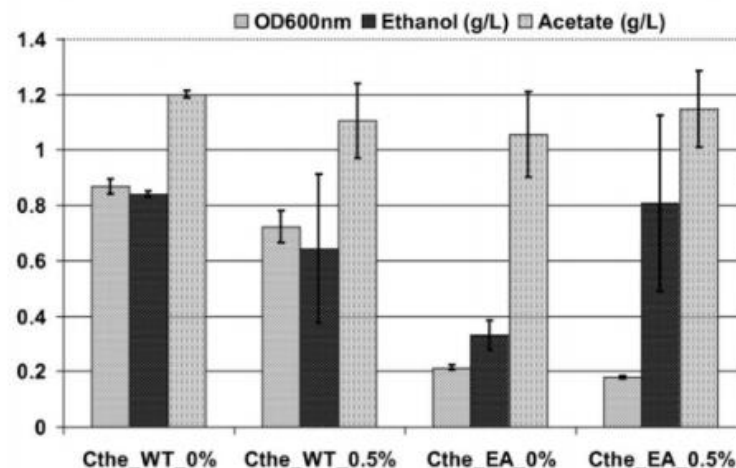
“Engineered microbe could potentially move the payback period for a commercial cellulosic ethanol operation from 15 years down to two years,” Bill Brady, Enchi CEO.



“Nucleic Acid Molecules Conferring Enhanced Ethanol Tolerance and Microorganisms Having Enhanced Tolerance to Ethanol”

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Net ethanol and acetate production from the wild type *C. thermocellum* strain (Cth_WT) and a mutant ethanol tolerant *C. thermocellum* strain (Cthe_EA) with added (0.55) ethanol or without added ethanol (0%).