

Production of bio-butanol by recombinant *Clostridium beijerinckii*

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Bio-butanol has become one of potential solutions for the alternative to gasoline fuel. Its better characteristics of higher energy content, less hydroscopic and volatile which make it possible to use pre-existing transport infrastructure, than ethanol are regaining the reputation of conventional ABE (Acetone-Butanol-Ethanol) fermentation. However low productivity and titer of butanol on the main ABE producers derived from *Clostridium acetobutylicum* ATCC 824, *Clostridium beijerinckii* NCIMB 8052, *Clostridium saccharoperbutylacetonicum* N1-4 etc., hamper the commercial scale production. For the enhanced production of n-butanol, we have developed a new over-expression system. In this presentation, the detailed results will be presented.