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Thermodynamic and physiological study of caproate and 1,3-propanediol co-production through glycerol fermentation and fatty acids chain elongation

Ling Leng, Peixian Yang, Yanping Mao, Zhuoying Wu, Tong Zhang, Po-Heng Lee



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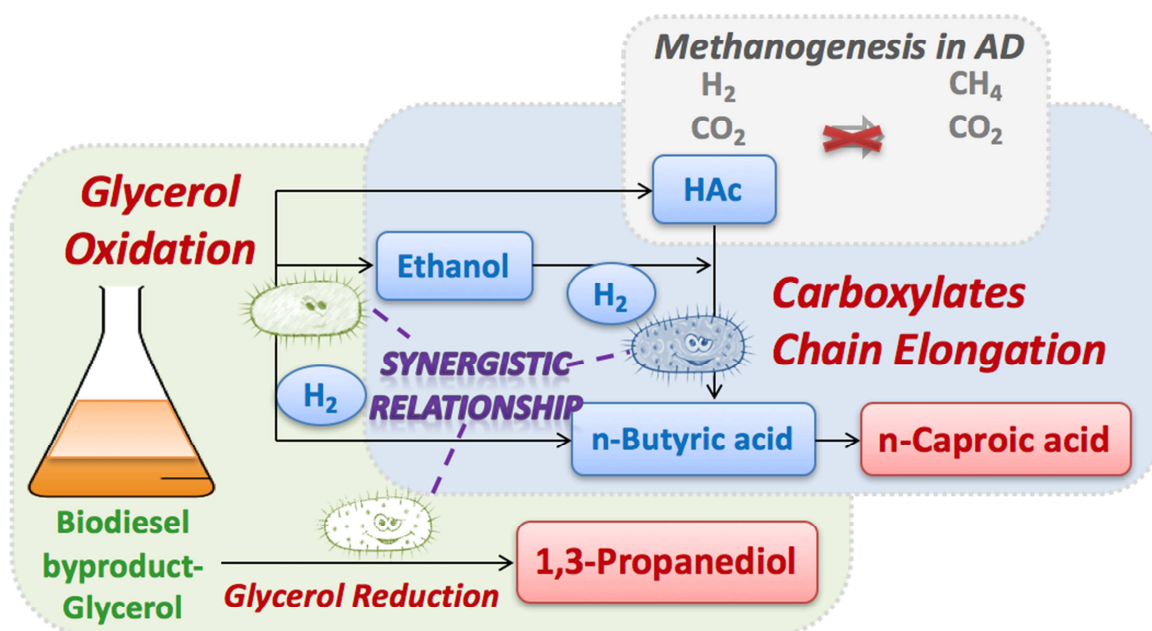
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