

## Научно-исследовательский институт биологии

Մանրեալանության, կենսաէներգետիկայի և կենսատեխնոլոգիայի  
լաբորատորիա  
Научный сотрудник

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#### **Growth and hydrogen production by *Escherichia coli* during utilization of sole and mixture of sugar beet, alcohol, and beer production waste**

Kairat Bekbayev, Satenik Mirzoyan, Akerke Toleugazykyzy, Dinara Tlevlessova, Anait Vassilian, Anna Poladyan, Karen Trchounian

Biomass Conversion and Biorefinery 2024 909-919

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#### **Relationship between proton/ potassium fluxes and central carbon catabolic pathways in different *Saccharomyces cerevisiae* strains under osmotic stress conditions**

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Process Biochemistry 2023 309-318

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#### **Coffee silverskin as a substrate for biobased production of biomass and hydrogen by *Escherichia coli***

Satenik Mirzoyan, Hayarpi Aghekyan, Liana Vanyan, Anait Vassilian, Karen Trchounian

International Journal of Energy Research 2022 23110-23121

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**Hydrogen production by Escherichia coli during anaerobic utilization of mixture of lactose and glycerol: enhanced rate and yield, prolonged production**

Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

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**H2 PRODUCTION AND ROLE OF HYDROGENASES IN ESCHERICHIA COLI BATCH CULTURES DURING FERMENTATION OF MIXTURE OF GLYCEROL AND ACETATE AT DIFFERENT pHs**

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**Prolongation of H<sub>2</sub> production during mixed carbon sources fermentation in E. coli batch cultures: New findings and role of different hydrogenases**

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**Role of hydrogenases 3 and 4 in Escherichia coli growth and H<sub>2</sub> producing hydrogenase activity during anaerobic utilization of lactose**

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**Evidence for hydrogenase-4 catalyzed biohydrogen production in Escherichia coli**

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**Hydrogen production by Escherichia coli growing in different nutrient media with glycerol: Effects of formate, pH, production kinetics and hydrogenases involved**

Karen Trchounian, Satenik Mirzoyan, Anna Poladyan, Armen Trchounian

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