Tamara Eduard Abaghyan

tamara.abaghyan@ysu.am

Research Institute of Biology
Laboratory of Microbiology, Bioenergetics and Biotechnology
Junior Researcher

Faculty of Biology
Research Institute of Biology
Laboratory of Microbiology, Bioenergetics and Biotechnology
Junior Researcher

Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry, Microbiology and Biotechnology
Date	2023 - 2026
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry, Microbiology and Biotechnology
Date	2021 - 2023
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry, Microbiology and Biotechnology
Date	2017 - 2021
Degree name	Bachelor

Language skills

Հայերեն English Русский

Publications

Article

Role of E. coli acid resistance systems in proton motive force formation during fermentation
Heghine Gevorgyan, Tamara Abaghyan, Stella Hakobyan, Sophie Brameyer, Kirsten Jung,

Karen Trchounian
Biophysical Reports 2026 100266

https://doi.org/10.1016/j.bpr.2026.100266

Conference

Proton and Potassium Flux Alterations in the Presence of Propionic Acid in Gut-Isolated Escherichia coli

H. Gevorgyan, T. Abaghyan, K. Yenkoyan, K. Trchounian

2025 MBP-P-205

https://asm.org/events/asm-microbe/asm-microbe-2025-highlights

---

Conference

Impact of short-chain fatty acids on the anaerobic growth of Escherichia coli K12 and Enterococcus hirae ATCC9790

Tamara Abaghyan, Heghine Gevorgyan, Karen Trchounian

2025 1024 - 1024

https://fems-microbiology.org/opportunities/fems-micro-milan-2025-congress-and-…

Conference

The Impact of Different Concentrations of Formate and Lactate on Escherichia coli Growth Properties and H2 Production

Tamara Abaghyan, Heghine Gevorgyan, Karen Trchounian

2025 47-47

https://www.ysu.am/en/conference/869

Conference

Exploring the role of propionic acid: link between gut microbiome and neurodevelopmental disorders

T. Abaghyan, H. Gevorgyan, M. Mirumyan, K. Yenkoyan, K. Trchounian

2024 363-363

https://2024.febscongress.org

Conference

The regulation of ATPase activity by K+ ions in gut isolated E. coli strains and its role in propionic acid sensing

Tamara E. Abaghyan, Heghine Gevorgyan, Margarita Mirumyan, Konstantin Yenkoyan, Karen Trchounian

2024 71-72

https://www.ebec2024.org

Article

Propionic and valproic acids have an impact on bacteria viability, proton flux and ATPase activity

Heghine Gevorgyan, Tamara Abaghyan, Margarita Mirumyan, Konstantin Yenkoyan, Karen Trchounian

Journal of Bioenergetics and Biomembranes 2023 397-408

Conference

The penetration of PPA is mediated with H +efflux in Gram-negative and Grampositive bacteria

Tamara Abaghyan, Heghine Gevorgyan, Margatita Mirumyan, Konstantin Yenkoyan, Karen Trchounian

2023 54-54

https://euromicroph.eu/
