

# Anush Roland's Babayan

## Faculty of Biology

Office of the Faculty of Biology  
Specialist on Administrative Affairs

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ℝ<sup>6</sup>    

## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology
<b>Date</b>	2020 - 2022
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology
<b>Date</b>	2016 - 2020
<b>Degree name</b>	Bachelor

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## Work experience

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<b>Institution</b>	Yerevan State University, Faculty of Biology
<b>Period of time</b>	2023 till now
<b>Rank/degree</b>	Administrative specialist

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<b>Institution</b>	Yerevan State University, Faculty of Biology, Chair of Biochemistry, Microbiology and Biotechnology
<b>Period of time</b>	2023 - 2023
<b>Rank/degree</b>	senior laboratory assistant (clerk)

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<b>Institution</b>	Biology Research Institute, Yerevan State University
<b>Period of time</b>	2022 till now
<b>Rank/degree</b>	Junior Scientific Researcher

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<b>Institution</b>	Biology Research Institute, Yerevan State University
<b>Period of time</b>	2021 - 2022
<b>Rank/degree</b>	senior Assistant

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## Participation in international conferences and seminars

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<b>09/07/2023 - 13/07/2023</b>	Конференция FEMS по микробиологии Germany
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30/06/2022 - FEMS Conference on Microbiology  
02/07/2022 Serbia

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20/10/2021 - FEMS Conference on Microbiology  
22/10/2021 Armenia

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## Publications

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*Article*

**Escherichia coli FocA/B-dependent H<sup>+</sup> and K<sup>+</sup> fluxes: Influence of exogenous versus endogenous formate**

Lilit Grigoryan, Anush Babayan, Anait Vassilian, Anna Poladyan, Gary Sawers, Karen Trchounian

Biophysical Reports 2025 100225

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*Article*

**Role of the Escherichia coli FocA and FocB formate channels in controlling proton/potassium fluxes and hydrogen production during osmotic stress in energy-limited, stationary phase fermenting cells**

Anush Babayan, Anait Vassilian, Anna Poladyan, Karen Trchounian

Biochimie 2024 91-98

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*Article*

**Osmotic stress as a factor for regulating E. coli hydrogenase activity and enhancing H<sub>2</sub> production during mixed carbon sources fermentation**

Anush Babayan, Anahit Vassilian, Karen Trchounian

AIMS Microbiology 2023 724-737

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*Conference*

**ՕՐԳԱՆԱԿԱՆ ԹԱՓՈՆՆԵՐԻՑ ԿԵՆՍԱԶԱՆԳՎԱԾԻ ԵՎ ԿԵՆՍԱԷՆԵՐԳԻԱՅԻ ՓՈԽԱԿԵՐՊՄԱՆ ԿԵՆՍԱԹԻՄԻԱԿԱՆ ՈՒՂԻՆԵՐԻ ԲՆՈՒԹԱԳՐՈՒՄԸ ԵՎ ՕՔՍԻԴԱԿԵՐԱԿԱՆԳՈՂԱԿԱՆ ԿԱՐԳԱՎՈՐՈՒՄԸ**  
Փոլադյան Ա.Ա., Գևորգյան Հ.Խ., Վանյան Լ.Մ., Բաբայան Ա.Ռ., Բաղդասարյան Լ.Հ., Վասիլյան Ա.Վ.,

Պետրոսյան Հ.Հ.

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*Conference*

**HYDROGEN PRODUCTION DURING GLUCOSE AND FORMATE UTILIZATION IN OSMOTIC STRESSED CELLS OF ESCHERICHIA COLI AT ALKALINE PH**

Anush Babayan, Karen Trchounian

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*Conference*

**Influence of osmotic stress on H<sub>2</sub> production in Escherichia coli during fermentation of mixed carbon sources at acidic pH**

Anush Babayan, Karen Trchounian

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*Conference*

**The role of the Escherichia coli FocA and FocB formate channels in proton flux during fermentation of mixed carbon sources**

Anush Babayan, Anait Vassilian, Anna Poladyan, Karen Trchounian

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