

# Anush Roland's Babayan

✉ a.babayan@ysu.am

## Faculty of Biology

Կենսաբանության ֆակուլտետի գրասենյակ  
Specialist on Administrative Affairs

## 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                 |

## 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                                     |

## Participation in international conferences and seminars

|                                |  |
|--------------------------------|--|
| <b>09/07/2023 - 13/07/2023</b> | Конференция FEMS по микробиологии<br>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*

**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 Trchounan

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 ԿԵՆՍԱԵՆՆԵՐԳԻԱՅԻ ՓՈՒՍԱԿԵՐՊՄԱՆ ԿԵՆՍԱԶԵԻՄԻԱԿԱՆ ՈՒՂԻՆԵՐԻ ԲՆՈՒԹԱԳՐՈՒՄԸ ԵՎ ՕՔՍԻԴԱԿԵՐԱԿԱՆԳՈՂԱԿԱՆ ԿԱՐԳԱՎՈՐՈՒՄԸ**  
Փոլադյան Ա.Ա., Գևորգյան Հ.Խ., Վանյան Լ.Մ., Բաբայան Ա.Բ., 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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