

# Anush Roland's Babayan

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## Faculty of Biology

Կենսաբանության Փակուլտետի գրասենյակ  
Specialist on Administrative Affairs

## Education

Institution	Yerevan State University
Faculty	Biology
Date	2020 - 2022
Degree name	Masters

Institution	Yerevan State University
Faculty	Biology
Date	2016 - 2020
Degree name	Bachelor

## Work experience

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

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

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

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

## Participation in international conferences and seminars

09/07/2023 -	Конференция FEMS по микробиологии
13/07/2023	Germany

**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

### 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 ԹԱՓՈԽՆԵՐԻՑ ԿԵՆՍԱՉԱՆԳՎԱԾԻ ԵՎ ԿԵՆՍԱԵԼԵՐԳԻԱՅԻ ՓՈԽՎԱԿԵՐՊՄԱՆ  
ԿԵՆՍԱՔԵՐԱԿԱՆ ՈՒՂԻՆԵՐԻ ԲՆՈՒԹԱԳՐՈՒՄԸ ԵՎ ՕՔՍԻԴԱՎԵՐԱԿԱՆ ԿԱՐԳՎԱՌՈՐՈՒՄԸ  
Փոլաղյան Ա.Ա., Գևորգյան Հ.Խ., Վաևյան 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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