## a.babayan@ysu.am

# **Anush Roland's Babayan**

## **Faculty of Biology**

Office of the Faculty of Biology Specialist on Administrative Affairs

## **One Education**

Institution Yerevan State University **Faculty** Biology 2020 - 2022 Date Degree name Masters Institution Yerevan State University **Faculty** Biology 2016 - 2020 **Date** 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
20/10/2021 -	FEMS Conference on Microbiology
22/10/2021	Armenia

## Publications

#### Article

## Escherichia coli FocA/B-dependent H+ and K+ fluxes: Influence of exogenous versus endogenous formate

Lilit Grigoryan, Anush Babayan, Anait Vassilian, Anna Poladyan, Gary Sawers, Karen Trchounian Biophysical Reports 2025 100225

#### 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

#### Article

## Osmotic stress as a factor for regulating E. coli hydrogenase activity and enhancing H2 production during mixed carbon sources fermentation

Anush Babayan, Anahit Vassilian, Karen Trchounian

AIMS Microbiology 2023 724-737

### Conference

ՕՐԳԱՆԱԿԱՆ ԹԱՓՈՆՆԵՐԻՑ ԿԵՆՍԱՉԱՆԳՎԱԾԻ ԵՎ ԿԵՆՍԱԷՆԵՐԳԻԱՅԻ ՓՈԽԱԿԵՐՊՄԱՆ ԿԵՆՍԱՔԻՄԻԱԿԱՆ ՈԻՂԻՆԵՐԻ ԲՆՈԻԹԱԳՐՈԻՄԸ ԵՎ ՕՔՍԻԴԱՎԵՐԱԿԱՆԳՈՂԱԿԱՆ ԿԱՐԳԱՎՈՐՈԻՄԸ Փոլադյան Ա.Ա., Գևորգյան Հ.Խ., Վանյան L.Մ., Բաբայան Ա.Ռ., Բադդասարյան L.Հ., Վասիլյան Ա.Վ.,

Պետրոսյան Հ.Հ.

### Conference

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

Anush Babayan, Karen Trchounian

### Conference

Influence of osmotic stress on H2 production in Escherichia coli during fermentation of mixed carbon sources at acidic pH

Anush Babayan, Karen Trchounian

### 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