

Faculty of Biology

Chair of Biochemistry, Microbiology, and Biotechnology
Senior laboratory assistant

Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry Microbiology and Biotechnology
Date	2023 - 2025
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 Biophysics
Date	2017 - 2021
Degree name	Bachelor

Language skills

Русский English

Participation in international conferences and seminars

14/07/2025 -	FEMS Micro 2025
17/07/2025	Italy

24/09/2025 -	"Biological Sciences and Environmental Solutions for the Achievement of Sustainable Development Goals" first international conference
	Yerevan State University
	Armenia

29/06/2024 -	The 48th FEBS Congress 2024
03/07/2024	Italy

26/08/2024 -	The 22nd European Bioenergetics Conference EBEC 2024
31/08/2024	Austria

Publications

Article

The potential of blackcurrant, fig, and grape leaf extracts in the development of new preparations for overcoming antibiotic resistance and enhancing the efficacy of chemotherapeutic agents

Mikayel Ginovyan, Silvard Tadevosyan, Anahit Shirvanyan, Anush Babayan, Barbara Kusznierewicz, Izabela Koss-Mikołajczyk, Marika Mróz, Agnieszka Bartoszek, Naira Sahakyan

BMC Complementary Medicine and Therapies 2025 1-54

Article

Menthol's disruptive effects on kanamycin-resistant *Escherichia coli* energy metabolism and ion fluxes

Silvard Tadevosyan, Siranuysh Grabska, Hovakim Grabski, Ruben Abagyan, Karen Trchounian, Naira Sahakyan

Biophysical Reports 2025 100240

Article

Influence of menthol on membrane-associated properties of tetracycline-resistant *Escherichia coli*

Silvard Tadevosyan, Naira Sahakyan

AIMS Biophysics 2024 329-339

Article

CHEMICAL COMPOSITION AND ANTIBACTERIAL ACTIVITY OF ESSENTIAL OIL OF MENTHA ARVENSIS L. HARVESTED AT HIGH ALTITUDE ARMENIAN FLORA

S. K. TADEVOSYAN, A. H. SHIRVANYAN, A. A. MARKOSIAN, M. T. PETROSYAN, N. Zh. SAHAKYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2023 230-237

Conference

From metabolomics to medicine: exploiting the functional potential of plant extracts in human health, with emphasis on *Ribes nigrum*, *Ficus carica* and *Vitis vinifera*

S. Tadevosyan, M. Ginovyan, N. Avtandilyan, A. Shirvanyan, A. Bartoszek, N. Sahakyan

Conference

Harnessing plant extracts to overcome antibiotic resistance: leaf extracts of *Ribes nigrum*, *Ficus carica*, and *Vitis vinifera* as resistance modifiers of *E. coli* strains

M. Ginovyan, A. Shirvanyan, S. Tadevosyan, A. Babayan, B. Kusznierewicz, N. Avtandilyan, A. Bartoszek, N. Sahakyan

Conference

Impact of menthol on ATPase activity and ion flux in antibiotic-resistant *Escherichia coli*

Silvard K. Tadevosyan, Anahit Shirvanyan, Karen Trchounian, Naira Sahakyan

Conference

Modulation of antibiotic resistance by quercetin and catechins in *E. coli* DH5 α -pUC18 and *E. coli* pARG-25: a potential approach for overcoming antibiotic resistance

Alvard Minasyan, Aram Aramyan, Silvard Tadevosyan, Anush Babayan, Naira Sahakyan

Conference

Modulating antibiotic efficacy: the role of *Teucrium polium* in disrupting bacterial resistance mechanisms

Silvard Tadevosyan, Anush Babayan, Mikayel Ginovyan, Naira Sahakyan

Conference

Influence of Menthol on Ion Fluxes and Atpase Activity in Antibiotic-Resistant *E. coli* Under Aerobic and Anaerobic Conditions

Silvard Tadevosyan, Anahit Shirvanyan, Karen Trchounian, Naira Sahakyan

Conference

Antibiotic Activity of Plant Metabolites and Possibilities of Their Application

Aram Aramyan, Silvard Tadevosyan, Alvard Minasyan, Anush Babayan, Naira Sahakyan

Conference

Comprehensive Assessment of the Biological and Chemical Properties of *Ficus carica* Leaf

Ethanolic Extract

Naira Vardanyan, Alvard Minasyan, Silvard Tadevosyan, Anush Babayan, Karen Trchounian, Naira Sahakyan

Conference

Antibiotic Potential of *Mentha Arvensis* Extract

Sona Sargsyan, Silvard Tadevosyan, Anush Babayan, Alvard Minasyan, Andranik Davinyan, Armenuhi Moghrovyan, Naira Sahakyan
