Silvard Karen Tadevosyan

silvard.tadevosyan@ysu.am

Research Institute of Biology
Laboratory of Microbiology, Bioenergetics and Biotechnology
Junior Researcher

Faculty of Biology
Research Institute of Biology
Laboratory of Microbiology, Bioenergetics and Biotechnology
Junior Researcher

Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry Microbiology and Biotechnology
Date	2023 - 2026
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 - 17/07/2025	FEMS Micro 2025 Italy
24/09/2025 - 26/09/2025	"Biological Sciences and Environmental Solutions for the Achievement of Sustainable Development Goals" first international conference Yerevan State University Armenia

29/06/2024 - 03/07/2024	The 48th FEBS Congress 2024 Italy
26/08/2024 - 31/08/2024	The 22nd European Bioenergetics Conference EBEC 2024 Austria

Publications

Article

The antibacterial effect of Tanacetum argyrophyllum essential oil on kanamycin-resistant Escherichia coli by disruption of energy metabolism and proton fluxes

Lusine Margaryan, Silvard Tadevosyan, Armen Sahakyan, Karen Trchounian, Naira Sahakyan

Scientific Reports 2026 13576

https://doi.org/10.1038/s41598-026-44036-z

Article

Disruption of bacterial redox homeostasis by Tanacetum argyrophyllum essential oil in antibiotic-sensitive and resistant Escherichia coli

Lusine Margaryan, Silvard Tadevosyan, Karen Trchounian, Naira Sahakyan

AIMS Biophysics 2026 189 - 203

https://doi.org/10.3934/biophy.2026011

Article

Antibiotic Activity of Plant Metabolites and Possibilities of Their Application

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

Biological Science and Innovation for Achieving the Sustainable Development Goals 2026 283 - 301

https://doi.org/10.4018/979-8-3373-1524-9.ch014

Conference

Disruption of bacterial redox homeostasis by Tanacetum argyrophyllum essential oil in antibiotic-susceptible and resistant Escherichia coli

Lusine Margaryan, Silvard Tadevosyan, Սոնա Սարգսյան, Karen Trchounian, Naira Sahakyan

2026 91

https://eurestop.eu/wp-content/uploads/2026/05/Practical-Information_Pula_Eures...

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

Antioxidant and Antibiotic-modulatory Potential of Teucrium polium Ethanolic Extract Against Genetically-modified Antibiotic-resistant E. coli Strains

Silvard Tadevosyan, Anush Babayan, Naira Sahakyan

Iranian Journal of Medical Microbiology 2025 107-117

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

Conference

Modulation of antibiotic resistance by quercetin and catechins in E. coli DH5α-pUC18 and E. coli pARG-25: a potential approach for overcoming antibiotic resistance

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

2025 1311 - 1311

https://fems-microbiology.org/opportunities/fems-micro-milan-2025-congress-and-...

Conference

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

Silvard Tadevosyan, Anush Babayan, Mikayel Ginovyan, Naira Sahakyan

2025 1308 - 1308

https://fems-microbiology.org/opportunities/fems-micro-milan-2025-congress-and-...

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

2025 152 - 152

https://www.ysu.am/en/conference/869

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

2025 52 - 52

https://www.ysu.am/en/conference/869

Conference

Antibiotic Activity of Plant Metabolites and Possibilities of Their Application

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

2025 11 - 11

https://www.ysu.am/en/conference/869

Conference

Antibiotic Potential of Mentha Arvensis Extract

Sona Sargsyan, Silvard Tadevosyan, Anush Babayan, Alvard Minasyan, Andranik Davinyan,

Armenuhi Moghrovyan, Naira Sahakyan

2025 80 - 80

https://www.ysu.am/conference/869

Article

Influence of menthol on membrane-associated properties of tetracycline-resistant Escherichia coli
Silvard Tadevosyan, Naira Sahakyan

AIMS Biophysics 2024 329-339

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

2024 164-165

https://2024.febscongress.org/

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

2024 338 - 338

https://2024.febscongress.org/

Conference

Impact of menthol on ATPase activity and ion flux in antibiotic-resistant Escherichia coli
Silvard K. Tadevosyan, Anahit Shirvanyan, Karen Trchounian, Naira Sahakyan

2024 87-87

https://www.ebec2024.org/

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
