

# Silvard Karen Tadevosyan

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## Faculty of Biology

Chair of Biochemistry, Microbiology, and Biotechnology

Senior laboratory assistant

## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Department of Biochemistry Microbiology and Biotechnology
<b>Date</b>	2023 - 2025
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Department of Biochemistry Microbiology and Biotechnology
<b>Date</b>	2021 - 2023
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Department of Biophysics
<b>Date</b>	2017 - 2021
<b>Degree name</b>	Bachelor

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## Language skills

Русский English

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## Participation in international conferences and seminars

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<b>14/07/2025 - 17/07/2025</b>	FEMS Micro 2025 Italy
<b>24/09/2025 - 26/09/2025</b>	"Biological Sciences and Environmental Solutions for the Achievement of Sustainable Development Goals" first international conference Yerevan State University Armenia
<b>29/06/2024 - 03/07/2024</b>	The 48th FEBS Congress 2024 Italy
<b>26/08/2024 - 31/08/2024</b>	The 22nd European Bioenergetics Conference EBEC 2024 Austria

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*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 Kusznierevicz, Izabela Koss-Mikołajczyk, Marika Mróz, Agnieszka Bartoszek, Naira Sahakyan

BMC Complementary Medicine and Therapies 2025 1-54

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*Article*

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

Silvard Tadevosyan, Siranuys Grabska, Hovakim Grabski, Ruben Abagyan, Karen Trchounian,

Naira Sahakyan

Biophysical Reports 2025 100240

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*Article*

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

Silvard Tadevosyan, Naira Sahakyan

AIMS Biophysics 2024 329-339

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*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

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*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

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*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. Kusznierevicz, N. Avtandilyan, A. Bartoszek,

N. Sahakyan

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*Conference*

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

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

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*Conference*

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

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

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*Conference*

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

Silvard Tadevosyan, Anush Babayan, Mikayel Ginovyan, Naira Sahakyan

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*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

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*Conference*

**Antibiotic Activity of Plant Metabolites and Possibilities of Their Application**

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

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*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

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*Conference*

**Antibiotic Potential of Mentha Arvensis Extract**

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

Armenuhi Moghrovyan, Naira Sahakyan

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