

# Bella G. Babayan

## Research Institute of Biology

Laboratory of Applied Biology and Ecology  
Researcher

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## Education

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<b>Institution</b>	SPC "Armbiotechnology" NAS RA
<b>Faculty</b>	Microbiology, Blotechnology
<b>Date</b>	2017 - 2024
<b>Degree name</b>	Applicant

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<b>Institution</b>	Russian-Armenian University
<b>Faculty</b>	Medical Blochemistry
<b>Date</b>	2008 - 2011
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology/ Biochemistry
<b>Date</b>	2006 - 2008
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology/ Biochemistry
<b>Date</b>	2002 - 2006
<b>Degree name</b>	Bachelor

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## Scientific Rank/degree

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<b>Institution</b>	SPC "Armbiotechnology" NAS RA
<b>Date</b>	2024
<b>Degree name</b>	Postgraduate
<b>Scientific Supervisor</b>	N.A. Hovhannisyan
<b>Research Topic</b>	The study of Multi-Drug Resistance in Bacteria of Pseudomonas, Stenotrophomonas, Xanthomonas Genera Several Species and The Overcoming of It by L-tartaric Acid Synthetic Derivatives.

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## Language skills

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Русский English Հայերեն

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## Work experience

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<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2023 till now
<b>Rank/degree</b>	researcher

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## Scientific interests

- Biochemistry, Biotechnology, Ecology, Molecular Biology, Genetics, Toxicology, Pharmacology, Cave Microbiome
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## Membership

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<b>Institution</b>	SPELEOLOGICAL CENTER OF ARMENIA, Secretary, member of council,
<b>Period of time</b>	2019 - 2023

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<b>Institution</b>	BAA
<b>Period of time</b>	2017 - 2024

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<b>Institution</b>	BAA Secretary
<b>Period of time</b>	2017 - 2019

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<b>Institution</b>	FEMS
<b>Period of time</b>	2018 - 2024

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<b>Institution</b>	FEBS
<b>Period of time</b>	2023 - 2024

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## State awards and honorary titles

- 2010 "Synopsys" foundation I prize in IT TEchnologies  
2010 The Presidential Award "The Best PhD Student"
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## Publications

*Article*

**Tartaric acid new derivatives as prospective and safe alternative to antimicrobials for food products packing**

Mikaelyan A.R., Babayan B.G., Grigoryan A.L., Grigoryan A.M., Asatryan N.L., Melkumyan M.A.

Functional Foods in Health and Disease 2024 33-50.

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*Article*

**THE STUDY OF PROTEOLYTIC ACTIVITY OF PHYTOPATHOGENIC RHODOCOCCUS,  
PSEUDOMONAS AND XANTHOMONAS SOME STRAINS**

Melkumyan M., Babayan B.

EUROPEAN SCIENCE REVIEW 2023 3-7

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*Article*

**Assessment of 'Complex-co' preparation efficiency for some cereal crops growth stimulation**

H.S. Martirosyan, A.R. Mikaelyan, N.L. Asatryan, B.G. Babayan

Agronomy Research 2023 1213-1220

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*Article*

**Tartaric acid synthetic derivatives effect on phytopathogenic bacteria**

A.R. Mikaelyan, B.G. Babayan, A.A. Vartanyan, H.V. Tokmajyan

Agronomy Research 2022 644-659

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*Article*

**Analysis of genome sequence and trehalose lipid production peculiarities of the  
thermotolerant Gordonia strain**

Yanina Delegan, Armen Sargsyan, Nelli Hovhannisyan, Bella Babayan, Kirill Petrikov, Mikhail Vainstein

Journal of Basic Microbiology 2020 14-21

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*Article*

**Inactivation of Macrovipera lebetina obtusa snake venom by enzymes of multidrug resistant  
Pseudomonas**

Bella G. Babayan, N.A. Hovhannisyan, M.A. Melkumyan, A. Sargsyan

Toxicon 2019 S20

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*Article*

**СОВРЕМЕННЫЕ ТЕНДЕНЦИИ В РАЗРАБОТКЕ ЭФФЕКТИВНЫХ КОМБИКОРМОВ ДЛЯ РЫБ**

В. Ю. Агеец, А. Р. Микаелян, Ж. В. Кошак, Б. Г. Бабаян, С. М. Дегтярик

Весті Нацыянальнай акадэміі навук Беларусі. Серыя аграрных навук 2019 323-333

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*Conference*

**Antimicrobial Activity of Newly Synthesized Derivatives of Tartaric Acid Against the Multidrug  
Resistant Soil Strains of Pseudomonas and Stenotrophomonas**

Aram R. Mikaelyan, Nona L. Asatryan, Samvel A. Bagdasaryan, Bella G. Babayan

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*Patent*

**Համակցված ազդեցության հակաբորբոքային քսուլ**

Գազիկ Ներսիսյան, Արամ Միքաելյան, Բելլա Բաբայան

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*Conference*

**The Effect of Tartaric Acid New Derivatives Against the Multidrug Resistant Opportunistic  
Pathogenic Soil Strains of Pseudomonas Fluorescens**

Bella G. Babayan, Aram R. Mikaelyan, Nona L. Asatryan, Samvel A. Bagdasaryan, Marina A. Melkumyan

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*Conference*

**Tartaric Acid New Synthetic Derivatives Antibacterial Activity against the Phytopathogenic  
Pseudomonas syringae**

Bella G. Babayan, Aram R. Mikaelyan, Nona L. Asatryan, Marina A. Melkumyan, Samvel A. Bagdasaryan,

