Anush Martin Babayan

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

Faculty of Biology
Research Institute of Biology
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Junior Researcher

Faculty of Biology
Chair of Biochemistry, Microbiology, and Biotechnology
Lecturer on an hourly basis

Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Biochemistry,Microbiology and Biotechnology
Date	2011 - 2013
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Biology, Biology
Date	2007 - 2011
Degree name	Bachelor

Work experience

Institution	YEREVAN STATE UNIVERSITY
Period of time	2023 till now
Rank/degree	lecturer

Institution	YEREVAN STATE UNIVERSITY
Period of time	2013 - 2023
Rank/degree	senior laboratory assistant

Publications

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

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

Origanum vulgare Ethanol Extract Modulates the Activity of Antioxidant Enzymes

Anush M. Babayan, Naira Zh. Sahakyan

Biochemistry (Moscow) Supplement Series B Biomedical Chemistry 2025 316–326

Conference

Influence of Origanum vulgare extract on Escherichia coli metabolism

Anush Babayan, Naira Sahakyan

2025 1051 - 1051

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

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

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

Ocimum Basilicum Var. Purpureum Impact on Bacterial Cell Metabolism

Anush M. Babayan, Naira Zh. Sahakyan

2025 51 - 51

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

Conference

From agro-bio-waste to application: the power of bilberry aerial part extract as anti-cancer and antibiotic-modulating agent
N. Sahakyan, M. Ginovyan, A. Babayan, A. Shirvanyan, A. Minasyan, B. Kusznierewicz,

I. Koss-Mikołajczyk, N. Avtandilyan, A. Bartoszek

2024 179-180

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

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Article

ANTIMICROBIAL ACTIVITY OF ETHANOL EXTRACTS OF RIBES NIGRUM AND RIBES RUBRUM LEAVES
A.M. Babayan, N.Zh. Sahakyan

Proceedings of the YSU B Chemical and Biological Sciences 2023 54-62

Article

The Action Mechanisms, Anti-Cancer and Antibiotic-Modulation Potential of Vaccinium myrtillus L. Extract
Mikayel Ginovyan, Anush Babayan, Anahit Shirvanyan, Alvard Minasyan, Meri Qocharyan,

Barbara Kusznierewicz, Izabela Koss-Mikołajczyk, Nikolay Avtandilyan, Anne Vejux, Agnieszka Bartoszek,

Naira Sahakyan

Discovery Medicine 2023 590-611

Article

ANTIMICROBIAL AND ANTIOXIDANT ACIVITIES OF OCIMUM BASILICUM VAR. PURPUREUM ETHANOL EXTRACT

A.M. Babayan

Proceedings of the YSU B Chemical and Biological Sciences 2023 258-268

Conference

THE OXIDATIVE STRESS AND POSSIBLE PREVENTIVE ACTION OF PLANT BORN POLYPHENOLS

Anahit Shirvanyan, Anush Babayan, Alvard Minasyan, Margarit Petrosyan, Anna Poladyan,

Naira Sahakyan

2023 246-248

https://www.functionalfoodscenter.net/registration-form_ffc31.html

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Article

THE CHEMICAL COMPOSITION AND ANTIOXIDANT PROPERTIESOF SOME SPECIES OF ARTEMISIA GENUS, REPRESENTED IN ARMENIAN FLORA

A. M. BABAYAN, M. T. PETROSYAN, N. Zh. SAHAKYAN

Proceedings of the YSU B Chemical and Biological Sciences 2022 161-168

Conference

Antimicrobial and antioxidant potential of some plant crude extract

Margarit Petrosyan, Alvard Minasyan, Anahit Shirvanyan, Anush Babayan, Mikayel Ginovyan,

Naira Sahakyan

2022 812-813

https://www.femsbelgrade2022.org/

Conference

Prospects for the use of Ficus carica L. leave extract as bio-preservative agent

Anahit Shirvanyan, Alvard Minasyan, Anush Babayan, Armine Moghrovyan, Naira Sahakyan,

Margarit Petrosyan, Karen Trchounian

2022 373-374

https://www.femsbelgrade2022.org/

Article

Essential oil and ethanol extract of oregano (Origanum vulgare L.) from Armenian flora as natural source of terpenes, flavonoids and other phytochemicals with antiradical, antioxidant, metal chelating, tyrosinase inhibitory and antibacterial activity

Armenuhi Moghrovyan, Naira Sahakyan, Anush Babayan, Naira Chichoyan, Margarit Petrosyan,

Armen Trchounian

CURRENT PHARMACEUTICAL DESIGN 2019 1809-1816

Article

Chemical composition and some biological activities of the essential oils from basil Ocimum different cultivars

Ani Avetisyan, Anahit Markosian, Margarit Petrosyan, Naira Sahakyan, Anush Babayan, Samvel Aloyan,

Armen Trchounian

BMC Complementary and Alternative Medicine 2017 1-8

https://bmccomplementalternmed.biomedcentral.com/

Article

The radical scavenging activity of some species of Artemisia genus, represented in Armenian flora

Babayan A., Sahakyan N., Petrosyan M., Trchounian A.

Biological Journal of Armenia 2017 96-99

http://biology.asj-oa.am/

Conference

Essential Oil from Thymus vulgaris L. as Antimicobial Agent
N. Sahakyan, M. Petrosyan, A. Avetisyan, A. Markosyan, S. Aloyan, A. Babayan, A. Trchounian

2017 SUNDAY 19 - 19

https://www.asm.org/index.php/asm-microbe-2017

Conference

Stizolophus balsamita Lam. isolated culture extracts as the antioxidant agents
N. Sahakyan, M. Petrosyan, A. Babayan, A. Trchounian

2017 229

https://2017.febscongress.org/

Conference

Essential Oils of Basil Plants as Antimicrobial Agents
M. Petrosyan, N. Sahakyan, A. Babayan, A. Trchounian, A. Avetisyan, A. Markosian, S. Aloyan

2016 189-189

http://www.asmmicrobe.org/

Article

Amberboa sosnovskyi Iljin in vitro culture obtaining
M. Petrosyan, N. Sahakyan, A. Babayan, A. Trchounian

Electronic Journal of Natural Sciences of NAS RA 2015 7-10

http://ejns.sci.am

Article

Sizolophus balzamita Lam. մեկուսացված կալուսի ստացման, աճի և նյութափոխանակության որոշ առանձնահատկությունների շուրջ
Դավթյան Հ., Սահակյան Ն., Բաբայան Ա., Պետրոսյան Մ.

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2015 56-61

http://www.ysu.am/sss/hy

Article

Hypericum elongatum Ledeb. Մեկուսացված կուլտուրայի միկրոբազմացման առանձնահատկությունները
Իսաջյան Ս., Սահակյան Ն., Բաբայան Ա., Պետրոսյան Մ.

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2015 99-105

http://www.ysu.am/sss/hy

Conference

Free radical scavenging activity and total flavonoid content of essential oil and ethanol extracts of Origanum vulgare L., represented in Armenian flora
Naira Zh. Sahakyan, Margarit T. Petrosyan, Anush A. Babayan, Armen Trchounian, Mariam Sh. Muradyan

2015 61-61

http://www.armbiotech.am/arm/conf/conf3/index.html

Conference

Free radical scavenging activity and total flavonoid content of Sambucus tigrani Troitsky, growing in Armenian flora
A. Babayan, M. Petrosyan, N. Sahakyan, A. Trchounian, M. Muradyan

2015 86-86

http://www.armbiotech.am/arm/conf/conf3/index.html

Article

Оценка антимикробной и антиоксидантной активностей изолированной культуры Hypericum elongatum Ledeb
Бабаян А.М., Петросян М.Т., Саакян Н.Ж., Трчунян А. А, Исаджян С.А.

АКТУАЛЬНЫЕ ПРОБЛЕМЫ ГУМАНИТАРНЫХ И ЕСТЕСТВЕННЫХ НАУК 2014 38-41

http://new.publikacia.net/

Conference

Essential oil of Origanum vulgare L. as a source with antibacterial activity
Sahakyan N., Petrosyan M., Babayan A., Trchounian A., Moghrovyan A., Chichoyan N., Hovhannisyan N.,

Mouradyan M

2014 84-84

http://tmmb.ysu.am/

Conference

Evaluation of antimicrobial and antioxidant activity of isolated culture of St.-John`s wort elongated (Hypericum elongatum LEDEB.)
Babayan A., Petrosyan M.T, Sahakyan N.Zh., Trchounian A.H.

2014 3

Article

Some properties of antibacterial component of lactic acid bacteria isolated from Armenian dairy products
I.L. Bazukyan, A.M. Babayan, A. Trchounian

Electronic Journal of Natural Sciences of NAS RA 2013 38-43

http://ejns.sci.am
