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Научно-исследовательский институт биологии

Հիմնարար և ախտաբանական կենսաքիմիայի լաբորատորիա
Старший научный сотрудник

Образование

Учреждение	Ереванский государственный университет
Факультет	Факультет биологии
Дата	2013 - 2016
Степень / Звание	Аспирант

Учреждение	Ереванский государственный университет
Факультет	Факультет биологии
Дата	2011 - 2013
Степень / Звание	Магистр

Учреждение	Ереванский государственный университет
Факультет	Факультет биологии
Дата	2005 - 2009
Степень / Звание	Бакалавр

Ученое звание/Ученая степень

Учреждение	Ереванский государственный университет
Дата	2018
Степень / Звание	Кандидат наук
Специальность	Биологические науки
Научный руководитель	Профессор Армен Трчунян
Научная тема	Биохимические особенности некоторых лекарственных растений Армянской флоры

Знание языков

English Русский

Опыт работы

Учреждение	Ереванский государственный университет
Период времени	2025 до настоящего времени

Звание/степень	Старший научный сотрудник
Учреждение	Ереванский государственный университет
Период времени	2019 - 2024
Звание/степень	Исследователь
Учреждение	Ереванский государственный университет
Период времени	2016 - 2019
Звание/степень	Младший научный сотрудник



Участие в международных конференциях и семинарах

09/07/2022 - 14/07/2022	The Biochemistry Global Summit (the 25th IUBMB, 46th FEBS and 15th PABMB Congresses), Lisbon, Portugal Португалия
18/06/2023 - 21/06/2023	ISBT Congress 2023 (33rd Regional ISBT Congress), Gothenburg, Sweden Швеция
08/07/2023 - 12/07/2023	The 47th FEBS Congress, Tours, France Франция
20/03/2024 - 21/03/2024	COST EURESTOP GENERAL MEETING, Rome, Italy Италия
23/06/2024 - 27/06/2024	ISBT 38th Congress, Barcelona, Spain Испания
29/06/2024 - 03/07/2024	FEBS 48th Congress, Milan, Italy Италия
04/07/2024	COST Action CA21145 EURESTOP WG meeting, Brussels, Belgium Бельгия



Членство

Учреждение	COST Action CA21145, European Network for diagnosis and treatment of antibiotic-resistant bacterial infections (EURESTOP) - Management committee member
Период времени	2023 до настоящего времени
Учреждение	International Society of Blood Transfusion (ISBT)
Период времени	2023 до настоящего времени

Учреждение	COST Action CA16112 (NutRedOx) MC Observer from COST Near neighbour Countries
Период времени	2019 - 2021
Учреждение	Американское общество микробиологии (ASM)
Период времени	2015 до настоящего времени
Учреждение	Федерация европейских биохимических обществ (FEBS)
Период времени	2013 до настоящего времени

Публикации

Статья

Characterization and antibacterial/cytotoxic activity of silver nanoparticles synthesized from *Dicranum scoparium* moss extracts growing in Armenia

Gayane Semerjyan, Inesa Semerjyan, Mikayel Ginovyan, Nikolay Avtandilyan

AIMS Biophysics 2025 29–42

Статья

Adapting the Cohn 6th cold ethanol fractionation method for small plasma pools: An innovative platform for developing hyperimmunoglobulin products against antibiotic-resistant infections in resource-limited settings

Mikayel Ginovyan, Gayane Kirakosyan

Transfusion and Apheresis Science 2025 104093

Статья

Ribes nigrum leaf extract downregulates pro-inflammatory gene expression and regulates redox balance in microglial cells

Alvard Minasyan, Vivien Pires, Catherine Gondcaille, Mikayel Ginovyan, Marika Mróz, Stéphane Savary, Mustapha Cherkaoui-Malki, Barbara Kuszniereicz, Agnieszka Bartoszek, Pierre Andreoletti,

Naira Sahakyan

BMC Complementary Medicine and Therapies 2025 1-17

Статья

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 Kuszniereicz, Izabela Koss-Mikołajczyk, Marika Mróz, Agnieszka Bartoszek, Naira Sahakyan

BMC Complementary Medicine and Therapies 2025 1-54

Статья

A novel approach for synthesizing silver nanoparticles with antibacterial and cytotoxic activities using the leaf extract of hydroponically grown *Moringa oleifera*

Anush Aghajanyan, Marina Timotina, Tatevik Manutsyan, Ani Harutyunyan, Mikayel Ginovyan,

Robin Schubert, Sofiya Aydinyan, Karen Trchounian, Lilit Gabrielyan, Liana Gabrielyan

Scientific Reports 2025 1-18

Статья

Elucidating the impact of Hypericum alpestre extract and L-NAME on the PI3K/Akt signaling pathway in A549 lung adenocarcinoma and MDA-MB-231 triple-negative breast cancer cells

Hayarpi Javrushyan, Mikayel Ginovyan, Tigran Harutyunyan, Smbat Gevorgyan, Zaruhi Karabekian,

Alina Maloyan, Nikolay Avtandilyan

PLOS ONE 2025 e0303736

Статья

Hypericum alpestre extract exhibits in vitro and in vivo anticancer properties by regulating the cellular antioxidant system and metabolic pathway of L-arginine

Mikayel Ginovyan, Hayarpi Javrushyan, Hasmik Karapetyan, Izabela Koss-Mikołajczyk,

Barbara Kusznierevicz, Anna Grigoryan, Alina Maloyan, Agnieszka Bartoszek, Nikolay Avtandilyan

Cell Biochemistry and Function 2024 1-21

Статья

5-fluorouracil and Rumex obtusifolius extract combination trigger A549 cancer cell apoptosis: uncovering PI3K/Akt inhibition by in vitro and in silico approaches

Mikayel Ginovyan, Hayarpi Javrushyan, Svetlana Hovhannisyanyan, Edita Nadiryan, Gohar Sevoyan,

Tigran Harutyunyan, Smbat Gevorgyan, Zaruhi Karabekian, Alina Maloyan, Nikolay Avtandilyan

Scientific Reports 2024 1-16

Статья

Royal Jelly-Mediated Silver Nanoparticles Show Promising Anticancer Effect on HeLa and A549 Cells Through Modulation of the VEGFa/PI3K/Akt/MMP-2 Pathway

Meri Kocharyan, Syuzan Marutyan, Edita Nadiryan, Mikayel Ginovyan, Hayarpi Javrushyan,

Seda Marutyan, Nikolay Avtandilyan

Applied Organometallic Chemistry 2024 1-11

Статья

Anti-cancer effect of in vivo inhibition of nitric oxide synthase in a rat model of breast cancer

Nikolay Avtandilyan, Hayarpi Javrushyan, Mikayel Ginovyan, Anna Karapetyan, Armen Trchounian

Molecular and Cellular Biochemistry 2023 261-275

Статья

Anti-cancer effect of Rumex obtusifolius in combination with arginase/nitric oxide synthase inhibitors via downregulation of oxidative stress, inflammation, and polyamine synthesis

Mikayel Ginovyan, Hayarpi Javrushyan, Gayane Petrosyan, Barbara Kusznierevicz,

Izabela Koss-Mikołajczyk, Zuzanna Koziara, Monika Kuczyńska, Patrycja Jakubek, Anna Karapetyan,

Naira Sahakyan, Alina Maloyan, Agnieszka Bartoszek, Nikolay Avtandilyan

International Journal of Biochemistry & Cell Biology 2023 106396

Статья

Screening revealed the strong cytotoxic activity of Alchemilla smirnovii and Hypericum alpestre ethanol extracts on different cancer cell lines

Mikayel Ginovyan, Svetlana Hovhannisyanyan, Hayarpi Javrushyan, Gohar Sevoyan, Zaruhi Karabekyan,

Narine Zakaryan, Naira Sahakyan, Nikolay Avtandilyan

AIMS Biophysics 2023 12-22

Статья

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 Kusznierevicz, Izabela Koss-Mikołajczyk, Nikolay Avtandilyan, Anne Vejux, Agnieszka Bartoszek, Naira Sahakyan
Discovery Medicine 2023 590-611

Статья

The possible anti-inflammatory properties of hydro-ethanolic extract of Oregano

Armenuhi Moghrovyan, Mikayel Ginovyan, Nikolay Avtandilyan, Lilya Parseghyan, Armen Voskanyan, Naira Sahakyan, Anna Darbinyan
Functional Foods in Health and Disease 2023 476-486

Статья

THE CYTOTOXIC PROPERTIES OF ALCHEMILLA SMIRNOVII EXTRACT ON THE HELA CANCER CELLS VIA DOWNREGULATION OF ARGINASE ACTIVITY

S.M. Hovhannisyanyan, E.E. Nadiryan, M.V. Qocharyan, G.H. Petrosyan, G.P. Sevoyan, Z.I. Karabekyan, H.G. Javrushyan, M.M. Ginovyan, N.V. Avtandilyan
ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 238-247

Статья

REGULATORY EFFECTS OF RUMEX OBTUSIFOLIUS AND HYPERICUM ALPESTRE EXTRACTS ON THE QUANTITY OF IL-2 IN IN VITRO AND IN VIVO CANCER MODELS

E.E. Nadiryan, S.M. Hovhannisyanyan, M. V. Qocharyan, G.H. Petrosyan, H.G. Javrushyan, M.M. Ginovyan, N.V. Avtandilyan
ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 248-257

Статья

Hypericum alpestre extract affects the activity of the key antioxidant enzymes in microglial BV 2 cellular models

Mikayel Ginovyan, Pierre Andreoletti, Mustapha Cherkaoui-Malki, Naira Sahakyan
AIMS Biophysics 2022 161-171

Статья

Ribes nigrum L. Extract-Mediated Green Synthesis and Antibacterial Action Mechanisms of Silver Nanoparticles

Zaruhi Hovhannisyanyan, Marina Timotina, Jemma Manoyan, Lilit Gabrielyan, Margarit Petrosyan, Barbara Kusznierevicz, Agnieszka Bartoszek, Claus Jacob, Mikayel Ginovyan, Karen Trchounian, Naira Sahakyan, Muhammad Jawad Nasim
Antibiotics 2022 1-17

Статья

Growth inhibition of cultured cancer cells by Ribes nigrum leaf extract

Mikayel Ginovyan, Agnieszka Bartoszek, Izabela Koss-Mikołajczyk, Barbara Kusznierevicz, Pierre Andreoletti, Mustapha Cherkaoui-Malki, Naira Sahakyan
AIMS Biophysics 2022 282-293

Статья

EVALUATION OF THE ANTIOXIDANT ACTIVITY AND THE ANTI-CANCER PROPERTIES

OFALCHEMILLA SMIRNOVII JUZ. EXTRACTON THE HELA CANCER CELL LINE

S. Hovhannisyanyan, E. Nadiryan, M. Qocharyan, G. Sevoyan, M. Ginovyan, N. Avtandilyan

СТУДЕНЧЕСКАЯ ГОДИЧНАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ ЯРОССИЙСКО-АРМЯНСКИЙ УНИВЕРСИТЕТА 2022
40-46

Статья

Antioxidant potential, biochemical activity and hypoglycemic effects of *R. obtusifolius* L. seed extracts used in Armenian traditional medicine

Mikayel Ginovyan, Naira Sahakyan, Anush Aghajanyan, Armen Trchounian

BIO Web of Conferences 2021 1-6

Статья

NEW THERAPEUTIC APPROACHES IN BREAST ANTICANCER TREATMENT USING ARMENIAN HERBAL EXTRACTS

H.G. JAVRUSHYAN, N.V. AVTANDILYAN, M.M. GINOVYAN, A.H. TRCHOUNIAN

Biological Journal of Armenia 2021 32-38

Статья

ANTIOXIDANT POTENTIAL OF SOME HERBS REPRESENTED IN ARMENIAN FLORA AND CHARACTERIZATION OF PHYTOCHEMICALS

M. M. Ginovyan, N. Zh. Sahakyan, M.T. Petrosyan, A. H. Trchounian

Proceedings of the YSU B: Chemical and Biological Sciences 2021 25-38

Статья

Phytochemical Screening and Detection of Antibacterial Components from Crude Extracts of Some Armenian Herbs Using TLC-Bioautographic Technique

Ginovyan Mikayel, Ayvazyan Arpine, Nikoyan Armine, Tumanyan Lilit, Trchounian Armen

Current Microbiology 2020 1223-1232

Статья

ANTIBACTERIAL AND ANTI-PHAGE ACTIVITY OF PLANTAGO MAJOR L. RAW MATERIAL

N.Zh. Sahakyan, M. M. Ginovyan, M. T. Petrosyan, A. H. Trchounian

Proceedings of the YSU B: Chemical and Biological Sciences 2019 59-64

Статья

Herbs Extracts in the Treatment and Prevention of Experimental Metabolic Disorders: Synergistic Hypoglycemic Activity of Ethanol Extracts of *Hypericum alpestre* and *Rumex obtusifolius*

Anush Aghajanyan, Mikayel Ginovyan, Armen Trchounian

Proceedings MDPI 2019 1-3

Статья

Novel approach to combat antibiotic resistance: evaluation of some Armenian herb crude extracts for their antibiotic modulatory and antiviral properties

M. Ginovyan, A. Trchounian

JOURNAL OF APPLIED MICROBIOLOGY 2019 472-480

Статья

Novel approach to combat antibiotic resistance: Evaluation of some Armenian herb crude extracts for their antibiotic modulatory and antiviral properties

Статья

Antimicrobial activity of some plant materials used in Armenian traditional medicine

Mikayel Ginovyan, Margarit Petrosyan, Armen Trchounian

BMC Complementary and Alternative Medicine 2017 1-9

<https://bmccomplementaltermmed.biomedcentral.com/>

Статья

SCREENING OF SOME PLANT MATERIALS USED IN ARMENIAN TRADITIONAL MEDICINE FOR THEIR ANTIMICROBIAL ACTIVITY

M. Ginovyan, A. Trchounian

Proceedings of the YSU B: Chemical and Biological Sciences 2017 44-53

<http://www.y-su.am/science/hy/journals>

Статья

Effect of heat treatment on antimicrobial activity of crude extracts of some Armenian herbs

Ginovyan M.M.

Proceedings of the YSU B: Chemical and Biological Sciences 2017 113-117

<http://www.y-su.am/science/hy/journals>

Статья

Antibiotic resistance of Pseudomonas species isolated from Armenian fish farms

M. Ginovyan, V. Hovsepyan, M. Sargsyan, K. Grigoryan, A. Trchounian

Труды ВНИРО 2017 163-173

<http://www.vniro.ru/ru/periodicheskie-izdaniya/trudy-vniro/trudy-vniro-nauchnyj...>

Статья

Возбудители бактериальных инфекций форели в рыбоводческих хозяйствах Беларуси и Армении.

К.М. Григорян, Г.В. Слободницкая, Е.И. Гребнева, Н.А. Бенецкая, А.В. Беспалый, Е.В. Максимьюк, С.М. Дегтярик, В.В.Овсепян, М.П.Саргсян, М. Гиновян, Р.Л. Асадчая

ВОПРОСЫ РЫБНОГО ХОЗЯЙСТВА БЕЛАРУСИ 2016 262-274

Статья

The large scale antibacterial, antifungal anti-phage efficiency of Petamcin-A: new multicomponent preparation for skin diseases treatment

Mikayel Ginovyan, Andranik Keryan, Inga Bazukyan, Petros Ghazaryan, Armen Trchounian

Annals of Clinical Microbiology and Antimicrobials 2012 2-7

<https://ann-clinmicrob.biomedcentral.com/>

Конференция

Antibacterial, Antifungal and Anti-Phage Activity of Di

M. Ginovyan, M. Petrosyan, A. Trchounian

Конференция

Antimicrobial activity of some plant materials used in Armenian folk medicine

M. Ginovyan, M. Petrosyan, A. Trchounian

Конференция

A Novel Anti-bacterial, Anti-fungal, and Anti-phage Preparation for the Treatment of Skin Infections

M. Ginovyan, S. Daghbashyan, P. Ghazaryan, A. Trchounian

Конференция

The large scale antimicrobial efficiency of a new multicomponent preparation for skin diseases treatment

M. Ginovyan, P. Ghazaryan, I. Bazukyan, A. Trchounian

Конференция

Antibiotic modulatory effect of the methanolic extracts from Armenian herbs against several gram-negative and gram-positive bacteria

Ginovyan M., Petrosyan M., Trchounian A.

Конференция

Gc-MS analysis of Bio-Active Compounds from Methanol Extracts of R. Obtusifolius and A. Eupatorioides. Possessing Antimicrobial Activity

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

Конференция

Antibacterial and Anti-phage Activity of Raw Material Plantago major L., a Medicinal plant Grown in Armenia

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

Конференция

THE NATURE OF COMPOUNDS RESPONSIBLE FOR ANTIRADICAL ACTIVITY OF METHANOL AND ACETONE EXTRACTS OF SOME ARMENIAN HERBS

A.AYVAZYAN, M.GINOVYAN, A.NIKOYAN, A.TRCHOUNIAN

Конференция

RUMEX OBTUSIFOLIUS AND HIPERICUM ALPESTRE HERBS AS SOURCES FOR NEW ANTIOXIDANT COMPOUNDS

Sahakyan N, Ginovyan M., Andreoletti P., Cherkaoui-Malki M., Petrosyan M., Trchounian A.

Конференция

ANTIMICROBIAL, ANTIOXIDANT AND ANTI-HYPERGLYCEMIC ACTIVITY OF SOME PLANTS FROM ARMENIAN FLORA AND GROWING IN HYDROPONIC CONDITIONS: MODERN STUDIES AND FURTHER APPLICATIONS

Sahakyan N., Ginovyan M., Aghajanyan A., Petrosyan M., Trchounian A.

Конференция

Nature of active phytochemicals of crude extracts of some herbs from Armenian flora responsible for their antimicrobial activity

Ginovyan M., Ayvazyan A., Nikoyan A., Trchounian A.

Конференция

Antioxidant properties of some herbal extracts from Armenian flora, evaluation of their cytotoxicity and genotoxicity on HT29 cell line

Mikayel Ginovyan, Zuzanna Koziara, Monika Baranowska, Klaudia Suliborska, Patrycja Jakubek,

Конференция

High antioxidant and cytotoxic activity of *Rumex obtusifolius* seed extract and metabolomic characterization of its bioactive phytochemicals.

M. Ginovyan, Z. Koziara, M. Baranowska, I. Koss-Mikolajczyk, K. Suliborska, P. Jakubek, B. Kusznierevicz, N. Avtandilyan, N. Sahakyan, A. Bartoszek

Конференция

Antimicrobial and antioxidant potential of some plant crude extract

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

Конференция

Hypericum alpestre combined with arginase and NOS inhibitors shows antiproliferative activity in the rat breast cancer model

H.Javrushyan, N.Avtandilyan, S.Hovhannsiyan, M.Qocharyan, M.Ginovyan, A.Maloyan

Конференция

Anti-inflammatory and immunostimulatory effect of *Hypericum alpestre* combined with arginase and NOS inhibitors in the rat breast cancer model

H.Javrushyan, E.Nadiryan, G.Petrosyan, M.Ginovyan, A.Maloyan, N.Avtandilyan

Конференция

New therapeutic approach in breast anti-cancer treatment using a combination of *Rumex obtusifolius* extract and L-arginine pathway inhibitors

N. Avtandilyan, H. Javrushyan, A. Karapetyan, M. Ginovyan

Конференция

Evaluation of immunostimulatory effect of combination of herbal extracts and chemotherapeutic drugs by quantitative alteration of interleukin-2

H. Javrushyan, G. Sevoyan, M. Ginovyan, Z. Karabekian, N. Avtandilyan

Конференция

Occurrence of potential pathogenic *Pseudomonas* spp. in trout farms of Armenia

Grigoryan K., Sargsyan M., Hovsepyan V., Badalyan G., Ginovyan M.

Конференция

The combination of herbs and chemotherapeutic agents inhibits tumor progression via down-regulation of the TNF α -VEGF α /PI3K/Akt/NOS/COX-2-MMP-2 pathway in DMBA-induced breast cancer in rats

N. Avtandilyan, M. Kocharyan, S. Hovhannisiyan, S. Gevorgyan, H. Javrushyan, M. Ginovyan, A. Maloyan

Конференция

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

Конференция

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

Конференция

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. Kuszniereicz, N. Avtandilyan, A. Bartoszek,
N. Sahakyan

Конференция

The cytotoxicity and antibacterial activity of *Moringa oleifera*-mediated silver nanoparticles

M. Timotina, T. Manutsyan, M. Ginovyan, K. Trchounian, L. Gabrielyan, A. Aghajanyan

Конференция

ANTI-CANCER PROPERTIES AND POTENTIAL MOLECULAR MECHANISMS OF COMBINATIONS OF HERBAL EXTRACTS AND CHEMOTHERAPEUTIC AGENTS

N. Avtandilyan, H. Javrushyan, H. Karapetyan, A. Grigoryan, E. Nadiryan, G. Sevoyan, M. Ginovyan,
A. Maloyan

Конференция

Investigating the anticancer advantages of pairing *Rumex obtusifolius* herb extract with 5-fluorouracil against breast cancer in vivo

S. Hovhannisyan, M. Ginovyan, N. Avtandilyan

Конференция

Cytotoxic and prooxidant properties of ethanolic extract from *Hypericum alpestre* and metabolomic profiling of its bioactive phytochemicals

M. Ginovyan, I. Koss-Mikołajczyk, B. Kuszniereicz, N. Avtandilyan, A. Bartoszek

Конференция

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

Silvard Tadevosyan, Anush Babayan, Mikayel Ginovyan, Naira Sahakyan

Конференция

Emodin inhibits HIF-1 α expression in MDA-MB- 231 cells via suppression of the PI3K/Akt/mTOR pathway

S. Hovhannisyan, M. Ginovyan, N. Avtandilyan

Конференция

***Hypericum alpestre* Extract and L-NAME Suppress PI3K/Akt Pathway and Enhance Apoptosis in Lung and Breast Cancer Cells**

Svetlana Hovhannisyan, Gayane Petrosyan, Hayarpi Javrushyan, Mikayel Ginovyan, Nikolay Avtandilyan
