

# Микаел Мартикович Гиновян

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## Научно-исследовательский институт биологии

Հիմնարար և ախտաբանական կենսաքիմիայի լաբորատորիա  
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

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



## Участие в международных конференциях и семинарах

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



## Членство

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

### **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

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

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*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

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*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

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*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

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*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

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*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 Kusznierevich, Agnieszka Bartoszek, Claus Jacob, Mikayel Ginovyan, Karen Trchounian, Naira Sahakyan, Muhammad Jawad Nasim  
Antibiotics 2022 1-17

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**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

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*Статья*

**EVALUATION OF THE ANTIOXIDANT ACTIVITY AND THE ANTI-CANCER PROPERTIES**

**OF FALCHEMILLA SMIRNOVII JUZ. EXTRACT ON 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

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*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

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*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

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*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

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*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

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*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

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*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

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*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

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

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*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/>

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*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>

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*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>

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*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...>

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*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.Овсебян, М.П.Саргсян, М. Гиновян, Р.Л. Асадчая

ВОПРОСЫ РЫБНОГО ХОЗЯЙСТВА БЕЛАРУСИ 2016 262-274

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*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/>

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*Конференция*

**Antibacterial, Antifungal and Anti-Phage Activity of Di**

M. Ginovyan, M. Petrosyan, A. Trchounian

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*Конференция*

**Antimicrobial activity of some plant materials used in Armenian folk medicine**

M. Ginovyan, M. Petrosyan, A. Trchounian

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*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

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*Конференция*

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

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

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*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.

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*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

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*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

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*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

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*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.

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*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.

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*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.

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*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, Barbara Kusznierevicz, Nikolay Avtandilyan, Naira Sahakyan, Agnieszka Bartoszek

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*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

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*Конференция*

**Antimicrobial and antioxidant potential of some plant crude extract**

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

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*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

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*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

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*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

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*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

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*Конференция*

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

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

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*Конференция*

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

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

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*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

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*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

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*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

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*Конференция*

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

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

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*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

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*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

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*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

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