

# Naira Zhora Sahakyan

## Research Institute of Biology

Laboratory of Microbiology, Bioenergetics and Biotechnology

Leading researcher

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## Language skills

English Русский

## Publications

*Article*

### **Comparison of sulfur and nitrogen deprivation effects on photosynthetic pigments, polyphenols, photosystems activity and H<sub>2</sub> generation in *Chlorella vulgaris* and *Parachlorella kessleri***

Jemma Manoyan, Lilit Hakobyan, Tatsiana Samovich, Nikolai Kozel, Naira Sahakyan,

Hanna Muravitskaya, Vadim Demidchik, Lilit Gabrielyan

International Journal of Hydrogen Energy 2024 408-418

*Article*

### **Redoxification (of the Organism) Through Diet and Supplementation with a Focus on Natural Polymeric Redox Modulators**

Naira Sahakyan, Muhammad Jawad Nasim, Claus Jacob

Current Pharmacology Reports 2024 1-11

*Article*

### **DYNAMICS AND FUNCTION OF THE REDOX REGULATORY NETWORK OF PLANTS UNDER STRESS**

N.Zh. Sahakyan

Proceedings of the YSU B: Chemical and Biological Sciences 2024 68-78

*Article*

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

Silvard Tadevosyan, Naira Sahakyan

AIMS Biophysics 2024 329-339

*Article*

### **Phenolic compounds and antimicrobial activity of extracts of apricot leaves derived from the trees treated with pesticides**

Anna M. Grigoryan, Varsik S. Mirzoyan, Ruzanna M. Hanisyan, Naira Zh. Sahakyan, D. Karapetyan

Functional Foods in Health and Disease 2024 968-983

*Article*

### **Antimicrobial activity and mechanisms of action of *Origanum vulgare* L. essential oil: effects on membrane-associated properties**

Armenuhi Moghrovyan, Naira Sahakyan

*Article*

**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 Kusznierevich,

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

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*Article*

**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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*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

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*Article*

**Lamiaceae Family Plants: One of the Potentially Richest Sources of Antimicrobials**

N. Zh. Sahakyan

Химико-фармацевтический журнал (Pharmaceutical Chemistry Journal) 2023 565-572

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*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 Kusznierevich, Izabela Koss-Mikołajczyk, Nikolay Avtandilyan, Anne Vejux, Agnieszka Bartoszek,

Naira Sahakyan

Discovery Medicine 2023 590-611

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*Article*

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

Armenuhi Moghrovyanyan, 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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*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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*Article*

**Antinociceptive, anti-inflammatory, and cytotoxic properties of Origanum vulgare essential oil, rich with  $\beta$ -caryophyllene and  $\beta$ -caryophyllene oxide**

Armenuhi Moghrovyan, Lilya Parseghyan, Gohar Sevoyan, Anna Darbinyan, Naira Sahakyan, Monica Gaboyan, Zaruhi Karabekian, Armen Voskanyan  
KOREAN JOURNAL OF PAIN 2022 140-151

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*Article*

**Essential Oils of Basil Cultivars Selectively Affect the Activity of Antioxidant Enzymes in Murine Glial Cells**

Naira Sahakyan, Pierre Andreoletti, Mustapha Cherkaoui-Malki, Margarit Petrosyan  
Current Nutraceuticals 2022 68-76

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*Article*

**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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*Article*

**THE CHEMICAL COMPOSITION AND ANTIOXIDANT PROPERTIES OF 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

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*Article*

**Possible Preventive Effect of Ziziphora clinopodioides Lam. Essential Oil on Some Neurodegenerative Disorders**

Naira Sahakyan, Margarit Petrosyan  
OBM Neurobiology 2022 1-17

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*Article*

**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

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*Article*

**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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*Article*

**The Role of Oxidative Stress-Mediated Inflammation in the Development of T2DM-Induced Diabetic Nephropathy: Possible Preventive Action of Tannins and Other Oligomeric Polyphenols**

Gohar Sahakyan, Anne Vejux, Naira Sahakyan

*Article*

**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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*Article*

***Artemisia dracunculus* L. essential oil phytochemical components trigger the activity of cellular antioxidant enzymes**

Naira Sahakyan, Pierre Andreoletti, Mustapha Cherkaoui-Malki, Margarit Petrosyan, Armen Trchounian

Journal of Food Biochemistry 2021 e13691

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*Article*

**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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*Article*

**Isolated culture of *A. reptance* L., its' morphological and growth features**

Elen Poghosyan, Naira Sahakyan, Margarit Petrosyan, Irina Batlutskaya, Karen Trchounian

BIO Web of Conferences 2021 1-9

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*Article*

**SOME PECULIARITIES OF ESSENTIAL OIL OF DAMASK ROSE GROWING IN HIGH ALTITUDE ARMENIAN LANDSCAPES**

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

Proceedings of the YSU B: Chemical and Biological Sciences 2020 68-74

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*Article*

**Bioavailability of Tannins and Other Oligomeric Polyphenols: a Still to Be Studied Phenomenon**

Naira Sahakyan, Agnieszka Bartoszek, Claus Jacob, Margarit Petrosyan, Armen Trchounian

Current Pharmacology Reports 2020 131-136

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*Article*

***Origanum vulgare* L. extract-mediated synthesis of silver nanoparticles, their characterization and antibacterial activities**

Syuzanna Hambardzumyan, Naira Sahakyan, Margarit Petrosyan, Muhammad Jawad Nasim, Claus Jacob,

Armen Trchounian

AMB Express 2020 1-11

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*Article*

**INCREASING OF THE SUPEROXIDE DISMUTASE TOTAL ACTIVITY IN MICROGLIAL CELLS UNDER THE TREATMENT BY *RIBES NIGRUM* L. ALCOHOL EXTRACT**

N. Zh. SAHAKYAN, M. T. PETROSYAN, A. H. TRCHOUNIAN

Proceedings of the YSU B: Chemical and Biological Sciences 2020 216-222

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Article

**SOME LAMIACEAE FAMILY PLANT ESSENTIAL OIL CHEMICAL COMPOSITION AND THEIR POTENTIAL AS ANTIMICROBIAL AGENTS AGAINST ANTIBIOTIC-RESISTANT BACTERIA**

N. Zh. SAHAKYAN, M. T. PETROSYAN, A. H. TRCHOUNIAN

Proceedings of the YSU B: Chemical and Biological Sciences 2019 23-28

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Article

**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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Article

**The activity of *Alkanna* species in vitro culture and intact plant extract against antibiotic resistant bacteria**

Naira Sahakyan, Margarit Petrosyan, Armen Trchounian

CURRENT PHARMACEUTICAL DESIGN 2019 1861-1865

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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

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Article

**The Caucasian flora: a still-to-be-discovered rich source of antioxidants**

Naira Sahakyan, Margarit Petrosyan, Izabela Koss-Mikołajczyk, Agnieszka Bartoszek,

Tamara Gabour Sad, Muhammad Jawad Nasim, Maia Vanidze, Aleko Kalandia, Claus Jacob,

Armen Trchounian

FREE RADICAL RESEARCH 2019 1-10

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Article

**Plant origin phenolics as prospective antioxidants: State-of-art for application**

N. Sahakyan, M. Petrosyan, I. Batlutskaya, A. Trchounian

Advances in Biological Sciences Research 2019 266-269

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Article

**CHEMICAL COMPOSITION AND ANTIMICROBIAL POTENTIAL OF ESSENTIAL OIL OF ARTEMISIA DRACUNCULUS L., CULTIVATED AT HIGH ALTITUDE ARMENIAN LANDSCAPE**

Margarit Petrosyan, Naira Sahakyan, Armen Trchounian

Proceedings of the YSU B: Chemical and Biological Sciences 2018 116-121

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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

*Article*

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

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

Հայաստանի կենսաբանական հանդես 2017 96-99

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

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*Article*

**Crupina vulgaris Cass. in vitro culture obtaining**

Semerjyan I., Petrosyan M., Sahakyan N., Trchounian A.

Հայաստանի կենսաբանական հանդես 2017 163-166

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

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*Article*

**Dermal benefits of essential oil distilled from a high altitude damask rose cultivated in Armenia**

A. Avetisyan, A. Markosyan, S.Aloyan, M. Petrosyan, N. Sahakyan, A. Trchounian

CLINICAL AND EXPERIMENTAL DERMATOLOGY 2016 43-43

<http://www.omicsonline.org/clinical-experimental-dermatology-research.php>

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*Article*

**Comparative analysis of chemical composition and biological activities of Ajuga genevensis L. in in vitro culture and intact plant**

Sahakyan N., Petrosjan M., Trchounian A

International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering  
2016 322-326

<https://www.waset.org/journal/Biological>

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*Monograph*

**Redox State as a Central Regulator of Plant-Cell Stress Responses. Chapter 2. Plant Cell Redox Homeostasis and Reactive Oxygen Species (Ed. D.K. Gupta et al.)**

A. Trchounian, M. Petrosyan, N. Sahakyan

2016 25

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*Article*

**Alkanna orientalis (L.) Boiss. plant isolated cultures and antimicrobial activity of their extracts: phenomenon, dependence on different factors and effects on some membrane-associated properties of bacteria.**

Margarit Petrosyan, Yekaterina Shcherbakova, Naira Sahakyan, Zaruhi Vardanyan, Anna Poladyan,

Yuri Popov, Armen Trchounian

PLANT CELL TISSUE AND ORGAN CULTURE 2015 727-738

<http://link.springer.com/journal/11240>

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*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>

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Article

**Sizolophus balzamita Lam. մեկուսացված կալուսի ստացման, աճի և նյութափոխանակության որոշ առանձնահատկությունների շուրջ**

Դավթյան Հ., Սահակյան Ն., Բաբայան Ա., Պետրոսյան Մ.

ԵՊՀ ՈԻԳԸ գիտական հոդվածների ժողովածու 2015 56-61

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

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Article

**Hypericum elongatum Ledeb. Մեկուսացված կուլտուրայի միկրոբազմացման առանձնահատկությունները**

Իսաջյան Ս., Սահակյան Ն., Բաբայան Ա., Պետրոսյան Մ.

ԵՊՀ ՈԻԳԸ գիտական հոդվածների ժողովածու 2015 99-105

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

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Article

**Alkanna orientalis (L.) Boiss. plant callus cultures as novel source with antibacterial activity**

N. Sahakyan, M. Petrosjan, A. Trchounian

Journal of Microbial and Biochemical Technology 2015 46-46

<http://www.omicsonline.org/editorialboard-microbial-biochemical-technology-open...>

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Article

**Chemical composition and biological activities of the essential oils of Ocimum basilicum purpureum, Ocimum basilicum thyrsoflora and Ocimum citroclorum**

A. Avetisyan, A. Markosyan, M. Petrosyan, N. Sahakyan, A. Trchounian, S. Aloyan

CLINICAL AND EXPERIMENTAL DERMATOLOGY 2015 43-43

<http://www.omicsonline.org/clinical-experimental-dermatology-research.php>

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Article

**Ինքնուրույն ուսուցման և հետազոտական աշխատանքի հմտությունների զարգացումը կենսաբանության մասնագիտական առարկաների դասավանդման գործընթացում**

Մ.Թ. Պետրոսյան, Ն.Ժ. Սահակյան, Ա.Հ.Թռչունյան

Բնագետ 2014 147-148

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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/>

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Article

**Содержание нейтральных липидов и жирных кислот в листьях интактных растений и каллусных культурах Ajuga chia и Ajuga genevensis**

Саакян Н.Ж., Петросян М.Т., Попов Ю.Г., Ширшова Т.И., Матистов Н.В., Володин В.В.

Растительные ресурсы 2012 389-395

<http://www.binran.ru/science/periodicheskiye-izdaniya/rastitelnye-resursy/>

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Article

**Введение шафрана посевного (Crocus sativus L.) в изолированную культуру**

М.Т. Петросян, Н.Ж. Саакян, Ю.Г. Попов

ԵՊՀ գիտական տեղեկագիր, Բնական գիտություններ 2011 36-39  
<http://ysu.am/science/hy/1355990920>

*Article*

**Оптимизация питательных сред для выращивания культур *A. genevensis* L. и *A. chia* Schreb. (*A. genevensis* L. և *A. chia* Schreb.)**

Н.Ж.Саакян, М.Т. Петросян

ԵՊՀ գիտական տեղեկագիր, Բնական գիտություններ 2010 46-51  
<http://ysu.am/science/hy/1355990920>

*Article*

**Изучение минимальной ингибирующей концентрации изолированной культуры живучки женовской (*Ajuga genevensis* L.)**

Н.Ж. Саакян, М.Т. Петросян

ԵՊՀ գիտական տեղեկագիր, Բնական գիտություններ 2010 50-54  
<http://ysu.am/science/hy/1355990920>

*Article*

**Content of neutral lipids and fatty acids in callus cultures and leaves of intact plants of *Ajuga genevensis* and *Ajuga chia***

N. Zh. Sahakyan, M. T. Petrosyan, Yu. G. Popov, V. V. Volodin, N. V. Matistov, I. V. Gruzdev,

T. I. Shirshova

Proceedings of Second Balkan conference on Biology 2010 87-90

<http://www.tandfonline.com/doi/pdf/10.1080/13102818.2010.10817800>

*Article*

**Isolated culture of *Ajuga genevensis* L. as potential source of biological active substances**

N. Zh. Sahakyan, M.T. Petrosyan, V.V. Volodin, S.O. Volodina, Yu.G. Popov

New Armenian Medical journal 2008 65-73

[http://www.ysmu.am/index.php?option=com\\_content&view=article&id=111&Itemid=638&...](http://www.ysmu.am/index.php?option=com_content&view=article&id=111&Itemid=638&...)

*Article*

**Морфофизиологические особенности изолированных культур живучки женовской (*Ajuga genevensis* L.) произрастающей в различных высотных поясах**

Н.Ж. Саакян

ԵՊՀ գիտական տեղեկագիր, Բնական գիտություններ 2008 113-117

<http://ysu.am/science/hy/1355990920>

*Article*

**Антибактериальная активность изолированной культуры живучки женовской *Ajuga genevensis* L.**

Н. Ж. СААКЯН, М.Т. ПЕТРОСЯН, ДЖ.А. АГАДЖАНИЯН

Հայաստանի կենսաբանական հանդես 2008 60-65

<http://www.flib.sci.am/eng/Biology/>

*Article*

**Получение изолированных культур *Ajuga genevensis* L. и *Ajuga chia* Schreb. и их характеристика**

Н.Ж. Саакян, М.Т. Петросян, Ю.Г. Попов

ԵՊՀ գիտական տեղեկագիր, Բնական գիտություններ 2007 96-100



*Conference*

**Dermal benefits of essential oil distilled from a high altitude damask rose cultivated in Armenia**

Arpi Avetisyan, A. Markosian, S. Aloyan, M. Petrosyan, N. Sahakyan, A. Trchounian

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*Conference*

**Antimicrobial Activity of the Essential Oils of Ziziphora Clinopodioides Lam. from Armenia**

N. Sahakyan, M. Petrosyan, A. Avetisyan, A. Markosian, S. Aloyan, A. Trchounian

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*Conference*

**Essential Oils of Basil Plants as Antimicrobial Agents**

M. Petrosyan, A. Avetisyan, A. Markosian, N. Sahakyan, A. Babayan, S. Aloyan, A. Trchounian

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*Conference*

**Comparative analysis of chemical composition and biological activities of Ajuga genevensis L. in in vitro culture and intact plants**

Naira Sahakyan, Margarit Petrosyan, Armen Trchounian

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*Conference*

**The investigation of antimicrobial activity of Origanum vulgare L. herb alcohol extract`s fraction**

Moghrovyan A., Petrosyan M., Chichoyan N., Sahakyan N., Trchounian A.

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*Conference*

**Investigation of mutual influence of bacterial bio-preparations "Azotovit-1" and "Melanin" on the yield of Solanum tuberosum**

Petrosyan M., Avetisova G., Hovsepyan A., Sahakyan A., Azaryan K., Sahakyan N.

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*Conference*

**Essential oil of Origanum vulgare L. as a source with antibacterial activity**

Sahakyan N., Petrosyan M., Moghrovyan A., Chichoyan N., Hovhannisyan N., Babayan A., Mouradyan M, Trchounian A.

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*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.

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*Conference*

**Free radical scavenging activity and total flavonoid content of essential oil and ethanol extracts of Origanum vulgare L., represented in Armenian flora**

Mariam Sh. Muradyan, Naira Zh. Sahakyan, Margarit T. Petrosyan, Anush A. Babayan, Armen Trchounian

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*Conference*

**Free radical scavenging activity and total flavonoid content of Sambucus tigrani Troitsky, growing in Armenian flora**

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

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Conference

**Free radical scavenging activity of Amberboa sosnovskyi ILJIN, Hypericum elongatum LEDEB and Stizolophus balsamita Lam plant isolated cultures**

Naira Sahakyan, Margarit Petrosyan, Armen Trchounian

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Conference

**Essential Oil from Thymus vulgaris L. as Antimicrobial Agent**

N. Sahakyan, M. Petrosyan, A. Avetisyan, A. Markosyan, S. Aloyan, A. Babayan, A. Trchounian

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Conference

**In vitro antioxidant potential of ethanol extracts of different plants from Armenian flora**

N. Sahakyan, M. Zareyan, S. Hambardzumyan, M. Petrosyan, A. Trchounian

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Conference

**Սողեւային փորձերը կենսաբանության մասնագիտական առարկաների դասավանդման գործընթացում**

Պետրոսյան Մ.Թ., Սահակյան Ն. Ժ., Թռչունյան Ա.Հ.

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Conference

**Stizolophus balsamita Lam. isolated culture extracts as the antioxidant agents**

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

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**Antioxidant activity of Stizolophus balsamita Lam. in vitro culture**

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**The Radical Scavenging Activity of Ajuga genevensis L. in vitro culture**

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**Antioxidant activity of Ajuga genevensis L. in vitro culture**

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**Antibiotic Resistance of Bacteria: Novel Findings on Antimicrobial Agents and Activation of Resistance Genes**

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**Comparative analysis of Amberboa sosnovskyi ILJIN intact plant and isolated culture chemical composition and biological activity**

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**The antioxidant activity of Ajuga genevensis L. in vitro culture**

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

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**ARTEMISIA DRACUNCULUS L. ESSENTIAL OIL: INFLUENCE ON ENZYMATIC ACTIVITY IN MICROGLIAL BV2 WILD TYPE AND ACYL-COA OXIDASE TYPE 1 DEFICIENT CELL LINES**

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**The chemical composition of tarragon (Artemisia dracunculus L.) essential oil and its effects on antioxidant enzymes activity of microglial cells**

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

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**ISOLATED CULTURE OF AJUGA REPTANCE L., ITS' MORPHOLOGICAL AND GROWTH FEATURES**

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**Antibacterial activity of Ribes nigrum extract-mediated synthesized AgNPs**

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**Hipericum alpestre extract has not high potential as neuroprotective agent**

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**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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**Changes in antioxidant enzymes activity of neuroglial cells under the treatment with basil essential oils**

Naira Sahakyan, Margarit Petrosyan, Pierre Andreoletti, Mustapha Cherkaoui-Malki

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

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**Potential of plant origin compounds as therapeutic agents**

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**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

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**Բուսական ծագմամբ միացությունների ներուժը սննդի և կերերի արտադրության կոնսերվանտների և նոր կենսաբանորեն ակտիվ հավելումների մշակման ոլորտում**

Սահակյան Ն.

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**THE OXIDATIVE STRESS AND POSSIBLE PREVENTIVE ACTION OF PLANT BORN POLYPHENOLS**

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

Naira Sahakyan

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**THE OXIDATIVE STRESS AND T2DM-INDUCED DIABETIC NEPHROPATHY: POSSIBLE PREVENTIVE ACTION OF PANT-BORN OLIGOMERIC POLYPHENOLS**

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**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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**From agro-bio-waste to application: the power of bilberry aerial part extract as anti-cancer and antibiotic-modulating agent**

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

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**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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**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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**Bioenergetic Properties of Microbes as Potential Target for Antibacterial Activity of Plant-Based Compounds**

Anna Poladyan, Karen Trchounian, Naira Sahakyan

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