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Language skills

English Русский

Publications

Article

Comparison of sulfur and nitrogen deprivation effects on photosynthetic pigments, polyphenols, photosystems activity and H₂ 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 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

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

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

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

N. Zh. Sahakyan

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

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 Kusznierevicz, Izabela Koss-Mikołajczyk, Nikolay Avtandilyan, Anne Vejux, Agnieszka Bartoszek,

Naira Sahakyan

Discovery Medicine 2023 590-611

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

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

Article

Antinociceptive, anti-inflammatory, and cytotoxic properties of Origanum vulgare essential oil, rich with β -caryophyllene and β -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

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

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

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

Article

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

Naira Sahakyan, Margarit Petrosyan
OBM Neurobiology 2022 1-17

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
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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
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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

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

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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

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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

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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

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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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***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

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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

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

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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

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

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

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

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

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

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

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

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

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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

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Sahakyan N., Petrosjan M., Trchounian A

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2016 322-326

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Monograph

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A. Trchounian, M. Petrosyan, N. Sahakyan

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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

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

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

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

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Hypericum elongatum Ledeb. Մեկուսացված կուլտուրայի միկրոբազմացման առանձնահատկությունները

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

N. Sahakyan, M. Petrosjan, A. Trchounian

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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

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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.

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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.

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Article

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

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

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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

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Article

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

Н.Ж. Саакян, М.Т. Петросян

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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

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Article

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

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

Н.Ж. Саакян

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Article

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

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

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

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

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

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

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

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

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

Conference

Մոդելային փորձերը կենսաբանության մասնագիտական առարկաների դասավանդման գործընթացում

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Stizolophus balsamita Lam. isolated culture extracts as the antioxidant agents

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

Conference

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

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

Sahakyan N., Petrosyan M., Trchounian A.

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Antioxidant activity of Ajuga genevensis L. in vitro culture

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

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

I. Bazukyan, D. Soghomonyan, A. Margaryan, N. Sahakyan, M. Petrosyan, A. Trchounian

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The Chemical Composition and Antimicrobial Potential of Artemisia Dracunculus L., Cultivated At High Altitude Armenian Landscape

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

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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

Conference

Antioxidant activity from alcohol extracts of some plants of Armenian flora: The highest level and its probable nature

Naira Sahakyan, Margarit Petrosyan, Armen Trchounian

Conference

Overcoming Antibiotic Resistance: Heavy Metal Nanoparticles as Antibacterial Agents against Antibiotic Resistant Escherichia coli Strains

A. Trchounian, L. Gabrielyan, N. Sahakyan

Conference

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

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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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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

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

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Potential of plant origin compounds as therapeutic agents

Naira Sahakyan, Margarit Petrosyan

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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

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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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ՕՔՍԻԴԱՅԻՆ ՍԹՐԵՍԸ ԵՎ ԲՈՒՍԱԿԱՆ ԴՈՒՆՖԵՆՈԼՆԵՐԻ ՀՆԱՐԱՎՈՐ ԿԱՆԽԱՐԳԵԼԻՉ ԱՉԴԵՑՈՒԹՅՈՒՆԸ

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Conference

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

N. Sahakyan, M. Ginovyan, A. Babayan, A. Shirvanyan, A. Minasyan, B. Kuszniereicz,

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

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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
