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## Научно-исследовательский институт биологии

Մանրէաբանության, կենսաէներգետիկայի և կենսատեխնոլոգիայի լաբորատորիա  
Старший научный сотрудник

## Знание языков

English Русский

## Публикации

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### **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

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### **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

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### **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

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### **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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### **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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**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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**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,

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Discovery Medicine 2023 590-611

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

Armenuhi Moghrovyan, Mikayel Ginovyan, Nikolay Avtandilyan, Lilya Parseghyan, Armen Voskanyan,

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Functional Foods in Health and Disease 2023 476-486

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**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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**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

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**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

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

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**Growth inhibition of cultured cancer cells by Ribes nigrum leaf extract**

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**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

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

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

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

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

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

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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,

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

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

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

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**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,

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

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

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

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**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,

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

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

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

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

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

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

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

Н.Ж. Саакян, М.Т. Петросян

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**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,

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

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

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

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

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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

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

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

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

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**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,

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**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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**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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**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**

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

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

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

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*Конференция*

**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

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

Naira Sahakyan, Margarit Petrosyan, Armen Trchounian

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

A. Trchounian, L. Gabrielyan, N. Sahakyan

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

Petrosyan M.T., Sahakyan N. Zh., Aloyan S., Trchounian A.

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

Sahakyan N., Petrosyan M., Trchounian A.

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

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

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

Sahakyan N., 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**

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

Poghosyan E.J., Sahakyan N.Zh., Petrosyan M.T., Batlutskaya I.V., Trchounian K.A.

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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**

Naira Sahakyan, P. Andreoletti, M. Cherkaoui-Malki

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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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*Конференция*

**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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*Конференция*

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

Սահակյան Ն.

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*Конференция*

**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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*Конференция*

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

Gohar Sahakyan, Anne Vejux, Margarit Petrosyan, Anna Poladyan, Naira Sahakyan

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**ՕՔՍԻԴԱՅԻՆ ՍԹՐԵՍԸ ԵՎ ԲՈՒՍԱԿԱՆ ՊՈԼԻՖԵՆՈԼՆԵՐԻ ՀՆԱՐԱՎՈՐ ԿԱՆԽԱՐԳԵԼԻՉ ԱՉԴԵՑՈՒԹՅՈՒՆԸ**

Սահակյան Ն.Ժ.

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