

Anush Aramays Aghajanyan

Research Institute of Biology

Basic and Pathological Biochemistry Laboratory

Researcher

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Education

Institution	Yerevan State University
Faculty	Faculty of Biology/ Department of Biochemistry
Date	1989 - 1994
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2021
Degree name	Associate professor
Specialty	Biological sciences

Institution	Yerevan State University
Date	2002
Degree name	Postgraduate
Scientific Supervisor	Davtyan M.A.
Research Topic	Influence of extracts of some herbal on the exchange of arginine and proline and on accumulation biomass of yeast <i>Candida guilliermondii</i> NP-4

Language skills

Русский English

Work experience

Institution	Yerevan State University
Period of time	2021 till now
Rank/degree	Associate Professor

Institution	Yerevan State University
Period of time	2013 - 2021
Rank/degree	Assistant

Institution	Yerevan State University
Period of time	2005 - 2013
Rank/degree	Scientific Researcher

Institution	Yerevan State University
Period of time	1994 - 2005
Rank/degree	Junior Scientific Researcher

Scientific interests

- Plant Biochemistry
 - Green synthesis of metallic nanoparticles synthesized by using plants
 - Hypoglycemic properties of plants
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Participation in international conferences and seminars

04/06/2018 - 05/06/2018	Biochemical properties of Stevia rebaudiana extract in the stress conditions Germany
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02/10/2019 - 04/10/2019	Synthesis of silver nanoparticles by Artemisia annua extract and evaluation of their antibacterial activity Portugal
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24/10/2019 - 25/10/2019	Hydroponic Stevia rebaudiana as an alternative path of cultivation: Novel antibacterial properties Netherlands (the)
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18/06/2020 - 22/06/2020	Silver Nanoparticles by Plant Stevia rebaudiana: Green Synthesis, Characterization and Antibacterial Activity United States of America (the)
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09/07/2022 - 14/07/2022	Antibacterial activity of silver nanoparticles biosynthesized from Stevia rebaudiana extract Portugal
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08/07/2023	Green synthesis of silver nanoparticles and their effect on the energy-dependent H ⁺ -fluxes across the bacterial membrane France
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08/07/2023 - 12/07/2023	The effect of silver nanoparticles synthesized using Spirulina biomass on the hydrogen yield and FoF1-ATPase activity in Escherichia coli France
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08/07/2023 - 12/07/2023 The antibacterial potential of *Spirulina platensis*-mediated green synthesized silver nanoparticles
France

14/10/2012 - 16/10/2012 International Symposia dedicated to the 125th anniversary of academician I.A. Orbeli
Armenia

Membership

Institution Federation of European Microbiological Societies (FEMS)
Period of time 2017 till now

Institution Federation of European Biochemical Societies (FEBS)
Period of time 2005 till now

State awards and honorary titles

2019 Certificate for conscientious and productive work on the occasion of the 100th anniversary of the founding of Yerevan State University

Publications

Article

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

Article

Silver nanoparticles fabricated using phycocyanin from *Arthrospira platensis*: green synthesis, physicochemical characterization, and biological activities

Ani Harutyunyan, Astghik Hambardzumyan, Liana Gabrielyan, Anush Aghajanyan, Meri Kocharyan,

Nikolay Avtandilyan, Alina Zurnachyan, Inga Bazukyan, Wojciech Kujawski, Lilit Gabrielyan

Microbial Cell Factories 2025 1-23

Article

Comparative Study of Physicochemical Properties and Antibacterial Potential of Cyanobacteria *Spirulina platensis*-Derived and Chemically Synthesized Silver Nanoparticles

Ani Harutyunyan, Liana Gabrielyan, Anush Aghajanyan, Susanna Gevorgyan, Robin Schubert,

Christian Betzel, Wojciech Kujawski, Lilit Gabrielyan

ACS Omega 2024 29410–29421

Article

Biosynthesis of silver nanoparticles using extracts of *Stevia rebaudiana* and evaluation of

antibacterial activity

Marina Timotina, Anush Aghajanyan, Robin Schubert, Karen Trchounian, Lilit Gabrielyan

World Journal of Microbiology and Biotechnology 2022 1-10

Article

HYPOLYCEMIC ACTIVITY OF *ORIGANUM VULGARE L.* AQUEOUS EXTRACT IN HYPERGLYCEMIA INDUCED BY IMMOBILIZATION STRESS IN RABBITS

A. A. AGHAJANYAN, A. H. TADEVOSYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2022 141-150

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

Silver ion bioreduction in nanoparticles using *Artemisia annua L.* extract: characterization and application as antibacterial agents

Anush Aghajanyan, Lilit Gabrielyan, Robin Shubert, Armen Trchounian

AMB Express 2020 1-9

Article

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

Article

Biochemical Activity and Hypoglycemic Effects of *Rumex obtusifolius L.* Seeds Used in Armenian Traditional Medicine

Anush Aghajanyan, Armine Nikoyan, Armen Trchounian

BioMed Research International 2018 ID4326352 (1-9)

Article

ANTIHYPERGLYCEMIC PROPERTIES OF THE HERBAL MIXTURE COMPOSED OF EXTRACTS FROM *SALVIA OFFICINALIS L.*, *CALENDULA OFFICINALIS LINN.*, *GLYCYRRHIZAE RADIX L.* AND *ECHINACEA PURPUREA L.* ON HYPERGLYCEMIA INDUCED BY IMMOBILIZATION STRESS IN RABBITS.

A.A. Aghajanyan, A.H. Trchounian

Proceedings of the YSU B: Chemical and Biological Sciences 2018 180-186

Article

Antihyperglycemic and Antihyperlipidemic Activity of Hydroponic *Stevia rebaudiana* Aqueous Extract in Hyperglycemia Induced by Immobilization Stress in Rabbits

Anush Aghajanyan, Zaruhi Movsisyan, Armen Trchounian

BioMed Research International 2017 1-6

<https://www.hindawi.com/journals/bmri/>

Article

ВЛИЯНИЕ ИММОБИЛИЗАЦИОННОГО СТРЕССА НА НЕКОТОРЫЕ БИОХИМИЧЕСКИЕ ПОКАЗАТЕЛИ УГЛЕВОДНОГО ОБМЕНА В СЫВОРОТКЕ КРОВИ КРОЛИКОВ

Н. АЙРАПЕТЯН, А. АГАДЖАНЯН, М. ХАЧАТРЯН, А. ТРЧУНЯН

Биологический журнал Армении 2017 13-18

<http://biology.asj-oa.am/view/year/2017.html>

Manual

ԲՈՒՅՍԵՐԻ ԿԵՆՍԱՔԻՄԻԱ

Ա.Ա.Աղաջանյան, Ա.Հ. Թոքունյան

2017 152

Article

ГИПОГЛИКЕМИЧЕСКАЯ И ГИПОЛИПИДЕМИЧЕСКАЯ АКТИВНОСТЬ ЛИСТЬЕВ SALVIA OFFICINALIS L.

Агаджанян Ануш Арамаисовна

Евразийский Союз Учёных 2015 5-8

http://elibrary.ru/title_about.asp?id=52740

Article

ԿԵՆՍԱՔԻՄԻԱՅԻ ԴԱՍԱՎԱՆԴՄԱՆ ԺԱՄԱՆԱԿԱԿԻՑ ՄԵԹՈԴՆԵՐ

Ն.Կ.Հայրապետյան, Մ.Հ.Խաչատրյան, Ա.Ա.Աղաջանյան

Կրթությունը և գիտությունը Արցախում 2015 62-65

<http://www.ysu.am/kgartsakh>

Article

ВЛИЯНИЕ НЕКОТОРЫХ ЛЕКАРСТВЕННЫХ РАСТЕНИЙ НА УРОВЕНЬ ОБЩЕГО ХОЛЕСТЕРИНА В СЫВОРОТКЕ КРОВИ ЧЕЛОВЕКА

А.А.Агаджанян

Հայաստանի կենսաբանական հանդես 2014 38-41

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

Article

АНТИОКСИДАНТНЫЕ СВОЙСТВА НЕКОТОРЫХ ЛЕКАРСТВЕННЫХ РАСТЕНИЙ

А.А.Агаджанян, А.Х.Агаджанян

Հայաստանի կենսաբանական հանդես 2012 76-79

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

Article

Аминокислотный состав некоторых лекарственных растений

А.Х.Агаджанян, Г.А.Семерджян, А.А.Агаджанян, Г.Г.Семерджян, М.С.Мартиросян

Биологический журнал Армении 2007 103-107

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

Article

АРГИНАЗА И РЕГУЛЯЦИЯ ЕЕ АКТИВНОСТИ В РАЗЛИЧНЫХ ОРГАНАХ РАДУЖНОЙ ФОРЕЛИ PARASALMO MIKISS

А.А.ЗАХАРЯН, А.А. Агаджанян

Հայաստանի կենսաբանական հանդես 2006 152-154

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

Article

ОСОБЕННОСТИ ФЕРМЕНТОВ БИОСИНТЕЗА ПРОЛИНА В РАЗЛИЧНЫХ ОРГАНАХ ФОРЕЛИ

PARASALMO MIKISS

А.А.ЗАХАРЯН, А.А.Агаджанян

Հայաստանի կենսաբանական հանդես 2005 123-126

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

Article

ОБМЕН ПРОЛИНА СРАВНИТЕЛЬНО-ЭВОЛЮЦИОННОМ АСПЕКТЕ

А. А. ЗАХАРЯН, Л. Р. ТУМАНЯН, А. А. АГАДЖАНИЯН, А.Х. АГАДЖАНИЯН, С.В. ЧУБАРЯН,

Э.А. МАНТАШЯН, Дж. Г. ГУКАСЯН, А.П. ГРИГОРЯН, М.С. МАРТИРОСЯН, З.С. МИНАСЯН,

А.М. КАРАПЕТЯН, Л.Г. АНАНЯН, Л.М. АРУТЮНЯН

Сисакяновские чтения 2005 208-218

Article

ՊՐՈՒԼԻՆԻ ԿԱՏԱՐՈՒԻՉՄԻ ՖԵՐՄԵՆՏՆԵՐԸ ԵՎ ՆՐԱՆՑ ԱԿՏԻՎՈՒԹՅԱՆ ԿԱՐԳԱՎՈՐՈՒՄԸ ԻՇԽԱՆ

ՁԿԱՆ(SALMO ISCHCHAN) ՏԱՐԲԵՐ ՕՐԳԱՆՆԵՐՈՒՄ

Ա.Ա.ՉԱԽԱՐԻԱՆ, Ա.Ա.ԱՂԱԶԱՆՅԱՆ

ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2004 95-99

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

Conference

АНТИДИАБЕТИЧЕСКИЕ И АНТИОКСИДАНТНЫЕ СВОЙСТВА INULA HELENIUM L.(ДЕВЯСИЛ ВЫСОКИЙ)

Агаджанян А.А.

Conference

Antidiabetic and antioxidant properties of herbal composition aqueous extract in a diabetic rabbit models

Aghajanyan A., Tadevosyan A., Trchounian A.

Conference

ԿԵՆՍԱԹԵՄԻԱՅԻ ՂԱՍԱԿԱՆԴՄԱՆ ԳՈՐԾԸՆԹՅՈՒՄ ԼԱԲՈՐԱՏՈՐ ԱՇԽԱՏԱՆՔՆԵՐԻ

ԱՐԴՅՈՒՆԱՎԵՏՈՒԹՅԱՆ ԲԱՐՁՐԱՑՄԱՆ ԺԱՍԱՆԱԿԱԿԻՑ ՄՈՏԵՑՈՒՄՆԵՐԸ

Աղաջանյան Ա.Ա., Սեմերջյան Գ.Հ., Նիկոյան Ա.Ա., Թռչունյան Ա.Հ

Conference

BIOCHEMICAL PROPERTIES OF STEVIA REBAUDIANA EXTRACT IN THE STRESS CONDITIONS

AGHAJANYAN Anush, TRCHOUNIAN Armen

Conference

HYDROPONIC STEVIA REBAUDIANA AS AN ALTERNATIVE PATH OF CULTIVATION: NOVEL

ANTIBACTERIAL PROPERTIES

AGHAJANYAN Anush, GABRIELIAN Lilit, BABAKHANYAN Mikayel, HOVHANNISYAN Lusya,

TRCHOUNIAN Armen

Conference

SYNTHESIS OF SILVER NANOPARTICLES BY ARTEMISIA ANNUA EXTRACT AND EVALUATION OF

THEIR ANTIBACTERIAL ACTIVITY

Aghajanyan A, Trchounian A

Conference

ЗЕЛЕНЬЙ СИНТЕЗ НАНОЧАСТИЦ СЕРЕБРА С ИСПОЛЬЗОВАНИЕМ ЭКСТРАКТА ARTEMISIA ANNUA L.

A.A. Агаджанян, Л.С. Габриелян, А.А. Трчунян

Conference

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.

Conference

Silver Nanoparticles by Plant Stevia rebaudiana: Green Synthesis, Characterization and Antibacterial Activity

A. Aghajanyan, A. Trchounian

Conference

Antibacterial activity of silver nanoparticles biosynthesized from Stevia rebaudiana extract

M. Timotina, A. Aghajanyan, L. Gabrielyan, K. Trchounian

Patent

Հակաշաքարախտային պատրաստուկ <<Արմադ-2 >>

Արամայիս Աղաջանյան, Անուշ Աղաջանյան

Conference

Green synthesis of silver nanoparticles and their effect on the energy-dependent H⁺ -fluxes across the bacterial membrane

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

Conference

THE PHYSICO-CHEMICAL AND ANTIMICROBIAL PROPERTIES OF SILVER NANOPARTICLES SYNTHESIZED BY Spirulina BIOMASS

Harutyunyan A., Manoyan J., Gevorgyan S., Gabrielyan L., Aghajanyan A., Gabrielyan L.

Conference

The antibacterial potential of Spirulina platensis-mediated green synthesized silver nanoparticles

L. Gabrielyan, A. Harutyunyan, A. Aghajanyan, L. Gabrielyan

Conference

The effect of silver nanoparticles synthesized using Spirulina biomass on the hydrogen yield and FoF1-ATPase activity in Escherichia coli.

A. Harutyunyan, D. Hakobyan, A. Aghajanyan, L. Gabrielyan

Conference

SPIRULINA-Ի ԿԵՆՍԱԶԱՆԳՎԱԾԻՑ ԱՐԾԱԹԻ ՆԱՆՈՍԱՍԵՒԿԼԵՐԻ ՍԻՆԹԵԶԸ ԵՎ ԴՐԱՆՑ ՀԱԿԱԲԱԿՏԵՐԻԱԿԱՆ ԱԿՏԻՎՈՒԹՅՈՒՆԸ

Հարությունյան Ա.Ա., Մանոյան Ջ.Գ., Աղաջանյան Ա.Ա., Գաբրիելյան Լ.Ս., Գաբրիելյան Լ.Ս.

Conference

Membranous mechanisms of antibacterial action of Spirulina-derived silver nanoparticles on kanamycin-resistant Escherichia coli

A. Harutyunyan, D. Hakobyan, A. Aghajanyan, L. Gabrielyan

Conference

Antibacterial, hemolytic and anticancer activities of silver nanoparticles biosynthesized by phycocyanin extracted from Spirulina

L. Gabrielyan, A. Harutyunyan, A. Hambardzumyan, A. Aghajanyan, N. Avtandilyan, L. Gabrielyan

Conference

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

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

Conference

Նոր մոտեցումներ միկրոօրգանիզմների կենսազանգվածից կենսաբանական ակտիվությամբ օժտված արծաթի նանոմասնիկների սինթեզի համար

Հարությունյան Ա.Ա., Մանոյան Ջ.Գ., Աղաջանյան Ա.Ա., Գաբրիելյան Լ.Ս., Գաբրիելյան Լ.Ս.

Conference

Comparative Analysis of Antibacterial Properties of Silver Nanoparticles Synthesized Using “Green Biomass” of Phototrophic Organisms

Lilit Gabrielyan, Ani Harutyunyan, Anush Aghajanyan, Liana Gabrielyan, Wojciech Kujawski

Conference

Biogenic Silver Nanoparticles Synthesized from Rumex obtusifolius as Effective Antibacterial Agents

Anush Aghajanyan, Nune Petakchyan, Lilit Gabrielyan

Conference

Antibacterial Properties of Medicinal Plants-Mediated Silver Nanoparticles

M. Timotina, A. Aghajanyan, K. Trchounian, L. Gabrielyan

Conference

“Green synthesis” of Silver Nanoparticles with Antimicrobial Activity Using Biomass of Microalgae

Lilit Gabrielyan, Anna Harutyunyan, Jemma Manoyan, Anush Aghajanyan, Liana Gabrielyan

Conference

Green synthesis of silver nanoparticles mediated by phycocyanin from Arthrospira platensis

Harutyunyan A., Hambardzumyan A., Aghajanyan A., Gabrielyan L., Gabrielyan L.
