Anush Aramayis Aghajanyan

a.aghajanian@ysu.am

Research Institute of Biology
Basic and Pathological Biochemistry Laboratory
Scientific Worker

Faculty of Biology
Research Institute of Biology
Basic and Pathological Biochemistry Laboratory
Scientific Worker

Faculty of Biology
Chair of Biochemistry, Microbiology, and Biotechnology
Associate professor

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

Institution	Yerevan State University
Date	2002
Degree name	PhD
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 Candida guilliermondii 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

Participation in international conferences and seminars

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

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

2025 45-45

https://m3s.umk.pl/pages/home/

Conference

Biogenic Silver Nanoparticles Synthesized from Rumex obtusifolius as Effective Antibacterial Agents

Anush Aghajanyan, Nune Petakchyan, Lilit Gabrielyan

2025 39-39

https://journals.ysu.am/index.php/jisees/article/view/SI_1_2025_p039

Conference

Antibacterial Properties of Medicinal Plants-Mediated Silver Nanoparticles
M. Timotina, A. Aghajanyan, K. Trchounian, L. Gabrielyan

2025 81-81

https://journals.ysu.am/index.php/jisees/article/view/SI_1_2025_p039

Conference

“Green synthesis” of Silver Nanoparticles with Antimicrobial Activity Using Biomass of Microalgae
Lilit Gabrielyan, Anna Harutyunyan, Jemma Manoyan, Anush Aghajanyan, Liana Gabrielyan

2025 89-89

https://www.ysu.am/en/conference/869

Conference

Green synthesis of silver nanoparticles mediated by phycocyanin from Arthrospira platensis
Harutyunyan A., Hambardzumyan A., Aghajanyan A., Gabrielyan L., Gabrielyan L.

2025 186-186

https://newtrendschem.org/

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

Conference

Membranous mechanisms of antibacterial action of Spirulina-derived silver nanoparticles on kanamycin-resistant Escherichia coli
A. Harutyunyan, D. Hakobyan, A. Aghajanyan, L. Gabrielyan

2024 200-200

https://2024.febscongress.org/

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

2024 152-152

https://2024.febscongress.org/

Conference

The cytotoxicity and antibacterial activity of Moringa oleifera-mediated silver nanoparticles
M. Timotina, T. Manutsyan, M. Ginovyan, K. Trchounian, L. Gabrielyan, A. Aghajanyan

2024 442-442

https://2024.febscongress.org/

Conference

Նոր մոտեցումներ միկրոջրիմուռների կենսազանգվածից կենսաբանական ակտիվությամբ օժտված արծաթի նանոմասնիկների սինթեզի համար
Հարությունյան Ա.Ա., Մանոյան Ջ.Գ., Աղաջանյան Ա.Ա., Գաբրիելյան Լ.Ս., Գաբրիելյան Լ.Ս.

2024 209 - 209

https://www.ysu.am/conference/868

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

2023 124-124

https://2023.febscongress.org/

Conference

THE PHYSICOCHEMICAL AND ANTIMICROBIAL PROPERTIES OF SILVER NANOPARTICLES SYNTHESIZED BY Spirulina BIOMASS
Harutyunyan A., Manoyan J., Gevorgyan S., Gabrielyan L., Aghajanyan A., Gabrielyan L.

2023 171-171

https://newtrendschem.org/

Conference

The antibacterial potential of Spirulina platensis-mediated green synthesized silver nanoparticles
L. Gabrielyan, A. Harutyunyan, A. Aghajanyan, L. Gabrielyan

2023 124-125

https://2023.febscongress.org/

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

2023 125-126

https://2023.febscongress.org/

Conference

SPIRULINA-Ի ԿԵՆՍԱԶԱՆԳՎԱԾԻՑ ԱՐԾԱԹԻ ՆԱՆՈՄԱՍՆԻԿՆԵՐԻ ՍԻՆԹԵԶԸ ԵՎ ԴՐԱՆՑ ՀԱԿԱԲԱԿՏԵՐԻԱԿԱՆ ԱԿՏԻՎՈՒԹՅՈՒՆԸ
Հարությունյան Ա.Ա., Մանոյան Ջ.Գ., Աղաջանյան Ա.Ա., Գաբրիելյան Լ.Ս., Գաբրիելյան Լ.Ս.

2023 185-185

https://www.ysu.am/conference/770

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

HYPOGLYCEMIC ACTIVITY OFORIGANUM 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

Conference

Antibacterial activity of silver nanoparticles biosynthesized from Stevia rebaudiana extract
M. Timotina, A. Aghajanyan, L. Gabrielyan, K. Trchounian

2022 309-309

https://2022congress.febs-iubmb-pabmb.org/

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

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.

2020 351-352

Conference

Silver Nanoparticles by Plant Stevia rebaudiana: Green Synthesis, Characterization and Antibacterial Activity
A. Aghajanyan, A. Trchounian

2020 AAR06

https://www.asm.org/Events

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

Conference

HYDROPONIC STEVIA REBAUDIANA AS AN ALTERNATIVE PATH OF CULTIVATION: NOVEL ANTIBACTERIAL PROPERTIES
AGHAJANYAN Anush, GABRIELYAN Lilit, BABAKHANYAN Mikayel, HOVHANNISYAN Lusya,

TRCHOUNIAN Armen

2019 25

https://www.wso-site.com/

Conference

SYNTHESIS OF SILVER NANOPARTICLES BY ARTEMISIA ANNUA EXTRACT AND EVALUATION OF THEIR ANTIBACTERIAL ACTIVITY

Aghajanyan A, Trchounian A

2019 42

Conference

ЗЕЛЕНЫЙ СИНТЕЗ НАНОЧАСТИЦ СЕРЕБРА С ИСПОЛЬЗОВАНИЕМ ЭКСТРАКТА ARTEMISIA ANNUA L.

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

2019 9-12

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.,GLYCYRHHIZAE 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

Conference

BIOCHEMICAL PROPERTIES OF STEVIA REBAUDIANA EXTRACT IN THE STRESS CONDITIONS

AGHAJANYAN Anush, TRCHOUNIAN Armen

2018 19

https://www.wso-site.com/

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

Conference

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

Aghajanyan A., Tadevosyan A., Trchounian A.

2017 101-107

Conference

ԿԵՆՍԱՔԻՄԻԱՅԻ ԴԱՍԱՎԱՆԴՄԱՆ ԳՈՐԾԸՆԹԱՑՈՒՄ ԼԱԲՈՐԱՏՈՐ ԱՇԽԱՏԱՆՔՆԵՐԻ ԱՐԴՅՈՒՆԱՎԵՏՈՒԹՅԱՆ ԲԱՐՁՐԱՑՄԱՆ ԺԱՄԱՆԱԿԱԿԻՑ ՄՈՏԵՑՈՒՄՆԵՐԸ

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

2017 137-139.

http://bnaget.am/#/conferences/:2017

Study manual

ԲՈՒՅՍԵՐԻ ԿԵՆՍԱՔԻՄԻԱ

Ա.Ա.Աղաջանյան, Ա.Հ. Թռչունյան

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

Conference

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

Агаджанян А.А.

2015 38

Article

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

А.А.Агаджанян

Biological Journal of Armenia 2014 38-41

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

Article

АНТИОКСИДАНТНЫЕ СВОЙСТВА НЕКОТОРЫХ ЛЕКАРСТВЕННЫХ РАСТЕНИЙ

А.А.Агаджанян, А.Х.Агаджанян

Biological Journal of Armenia 2012 76-79

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

Article

Аминокисотный 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

Biological Journal of Armenia 2006 152-154

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

Patent

Հակաշաքարախտային պատրաստուկ

Արամայիս Աղաջանյան, Անուշ Աղաջանյան

2006

Article

ОСОБЕННОСТИ ФЕРМЕНТОВ БИОСИНТЕЗА ПРОЛИНА В РАЗЛИЧНЫХ ОРГАНАХ ФОРЕЛИ PARASALMO MIKISS

А.А.ЗАХАРЯН, А.А.Агаджанян

Biological Journal of Armenia 2005 123-126

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

Article

ОБМЕН ПРОЛИНА СРАВНИТЕЛЬНО-ЭВОЛЮЦИОННОМ АСПЕКТЕ

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

Э.А. МАНТАШЯАН, Дж. Г. ГУКАСЯАН, А.П. ГРИГОРЯН, М.С. МАРТИРОСЯН, З.С. МИНАСЯАН,

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

Сисакяновские чтения 2005 208-218

Article

ՊՐՈԼԻՆԻ ԿԱՏԱԲՈԼԻԶՄԻ ՖԵՐՄԵՆՏՆԵՐԸ ԵՎ ՆՐԱՆՑ ԱԿՏԻՎՈՒԹՅԱՆ ԿԱՐԳԱՎՈՐՈՒՄԸ ԻՇԽԱՆ ՁԿԱՆ(SALMO ISCHCHAN) ՏԱՐԲԵՐ ՕՐԳԱՆՆԵՐՈՒՄ

Ա.Ա.ՉԱԽԱՐՅԱՆ, Ա.Ա.ԱՂԱՋԱՆՅԱՆ

ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2004 95-99

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