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Институт фармации
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Ассистент

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Образование

Факультет	Факультет биологии и химии, отделение био-экологии
Дата	2000 - 2005
Степень / Звание	Квалифицированный специалист

Ученое звание/Ученая степень

Дата	2014
Степень / Звание	Кандидат наук
Научный руководитель	Аветисова Гаяне Ервандовна
Научная тема	«Получение высокоактивных штаммов-продуцентов L-аланина и разработка технологии биосинтеза»

Знание языков

English

Опыт работы

Учреждение	НПЦ “Армбиотехнология” ГНКО НАН РА
Период времени	2018 до настоящего времени
Звание/степень	старший научный сотрудник

Учреждение	институт Фармации Ереванского государственного университета
Период времени	2017 до настоящего времени
Звание/степень	ассистент

Учреждение	Кафедра физиологии человека и животных, Армянский государственный педагогический университет им. Х. Абовяна
Период времени	2015 - 2016
Звание/степень	Преподаватель

Участие в международных конференциях и семинарах

17/09/2022 - 03/11/2022	“21T-2I229: Development of a New Multifunctional Biotechnological Preparation as a Biofertilizer, Biostimulant, Biopesticide”, 2021-2024 (funded by the Science Committee of the Ministry of Education, Science, Culture and Sport RA), Project coordinator) Laboratório Nacional de Energia e Geologia, I.P. (LNEG), Lisbon Португалия
02/09/2022 - 16/09/2022	“BRISK2” Transnational Access (TA) (Grant Agreement nº 731101 – Horizon 2020 project funded by the European Commission), “Lneg4: Advantages of Mutualistic Relationships between Microalgae and Nitrogen-Fixing Bacteria”, grantee Laboratório Nacional de Energia e Geologia, I.P. (LNEG), Lisbon Португалия
16/06/2019 - 18/08/2019	“Phoenix (H2020-MSCA-RISE-2015 Grant Agreement NUMBER 690925, secondee) Laboratório Nacional de Energia e Geologia, I.P. (LNEG), Lisbon Португалия
19/07/2018 - 21/08/2018	“Phoenix (H2020-MSCA-RISE-2015 Grant Agreement NUMBER 690925, secondee) Laboratório Nacional de Energia e Geologia, I.P. (LNEG), Lisbon Португалия
07/07/2018 - 14/07/2018	43rd FEBS Congress (“FEBS Bursary” grantee) - Чешская Республика
09/07/2017 - 13/07/2017	7th Congress of European Microbiologists (FEMS) (#203719 “Short Term Conference and Travel Grant” funded by Calouste Gulbenkian Foundation, grantee) - Испания
13/12/2014 - 19/12/2014	International Conference “Translational Biocatalysis” (#137270 “Short Term Conference and Travel Grant” funded by Calouste Gulbenkian Foundation, grantee) - Соединённое Королевство Великобритании и Северной Ирландии

Членство

Учреждение	Federation of European Biochemical Societies (FEBS)
Период времени	2017 до настоящего времени
Учреждение	Federation of European Microbiological Societies (FEMS)
Период времени	2016 до настоящего времени
Учреждение	Armenian Association of Biochemists

Период времени	2017 до настоящего времени

Учреждение	Armenian Microbiological Association
Период времени	2016 до настоящего времени

Учреждение	Biotechnological Armenian Association
Период времени	2009 до настоящего времени

Дополнительная информация

2005-2009 гг.: Аспирант (НПЦ «Армбиотехнология» ГНКО НАН РА)

Публикации

Статья

Production of L-tryptophan for food, feed, and pharmaceutical applications
Gayane Avetisova, Lusine Melkonyan, Susanna Keleshyan, Gevorg Tsarukyan, Sofya Martirosyan, Anna Toplaghaltsyan, Zhaneta Karapetyan, Luiza Manukyan, Vahe Ghochikyan
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Статья

Reducing nutrient requirement using nitrogen-fixing bacteria for microalgae cultivation
L. Melkonyan, A. Ferreira, C.R.V. Bastos, D. Figueiredo, T. Lopes da Silva, G. Avetisova, Zh. Karapetyan, A. Toplaghaltsyan, L. Gouveia
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Статья

Consortium of microalgae/nitrogen-fixing bacteria as a next-generation biofertilizer, biostimulant and biopesticide
Luisa Gouveia, Alice Ferreira, Carolina Vela Bastos, Gayane Avetisova, Zhaneta Karapetyan, Anna Toplaghaltsyan, Lusine Melkonyan
Journal of Applied Phycology 2025 -

Статья

Obtaining of osmoresistant mutants in L-histidine-producing coryneform bacterium to improve efficiency of target amino acid biosynthesis
Susanna Keleshyan, Zhaneta Karapetyan, Anna Toplaghaltsyan, Lusine Melkonyan, Vahe Ghochikyan, Luiza Manukyan, Gevorg Tsarukyan, Sofya Martirosyan, Tamara Davidyan, Nelli Avetisyan, Gayane Avetisova
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Статья

Optimizing Chlorella vulgaris production and exploring its impact on germination through microalga-N2-fixing bacteria consortia
Ana Sanchez-Zurano, Silvia Vilaró-Cos, Daniel Figueiredo, Lusine Melkonyan, Alice Ferreira,

Francisco Gabriel Acién, Tomas Lafarga, Luisa Gouveia

Journal of Biotechnology 2025 244-253

Статья

Characterization of important new industrial enzymes CGTase and their application in the transglycosylation of stevia glycosides

Vahe Ghochikyan, Gayane Avetisova, Tigran Soghomonyan, Luiza Manukyan, Susanna Keleshyan,

Lusine Melkonyan

Functional Food Science 2025 717 – 732

Статья

Antibiotic-resistant mutants of lactic acid bacteria: potential food control agents

Keleshyan Susanna, Karapetyan Zhaneta, Toplaghaltsyan Anna, Khachaturyan Nune, Chitchyan Karine,

Gevorgyan Sona, Melkonyan Lusine, Ghochikyan Vahe, Tsarukyan Gevorg, Avetisova Gayane

Bioactive Compounds in Health and Disease - Online ISSN 2574-0334 Print ISSN 2769-2426 2024 430-443

Статья

Biofertilizer based on Agrobacterium as a key to food security

Gayane Avetisova, Lusine Melkonyan, Vahe Ghochikyan, Gevorg Tsarukyan, Anna Toplaghaltsyan,

Zhaneta Karapetyan, Susanna Keleshyan

Bioactive Compounds in Health and Disease - Online ISSN 2574-0334 Print ISSN 2769-2426 2024 558-569

Конференция

BIOFERTILIZER BASED ON AGROBACTERIUM AS A KEY TO FOOD SECURITY

Gayane Avetisova, Lusine Melkonyan, Vahe Ghochikyan, Gevorg Tsarukyan, Anna Toplaghaltsyan,

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Конференция

ANTIBIOTIC-RESISTANT MUTANTS OF LACTIC ACID BACTERIA: POTENTIAL FOOD CONTROL AGENTS

Susanna Keleshyan, Zhaneta Karapetyan, Anna Toplaghaltsyan, Nune Khachaturyan, Karine Chitchyan,

Sona Gevorgyan, Lusine Melkonyan, Vahe Ghochikyan, Gevorg Tsarukyan, Gayane Avetisova

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Конференция

Some Features of Nitrogen-Fixing Bacterium and Microalga to Develop a Multifunctional Biobased Product for Sustainable Agriculture

Lusine Melkonyan, Anna Toplaghaltsyan, Zhaneta Karapetyan, Luisa Gouveia, Gayane Avetisova

2024 23 - 23

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Конференция

ISOLATION AND CHARACTERIZATION OF NITROGEN-FIXING BACTERIA TO CREATE A NEW MULTIFUNCTIONAL BIOTECHNOLOGICAL MEAN FOR ORGANIC AGRICULTURE

Lusine Melkonyan, Zhaneta Karapetyan, Anna Toplaghaltsyan, Luisa Gouveia, Gayane Avetisova

2023 230-232

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Конференция

CREATING A CONSORTIUM OF NITROGEN-FIXING BACTERIUM AND MICROALGA FOR HEALTHIER ORGANIC FOOD

Lusine Melkonyan, Alice Ferreira, Carolina Vela Bastos, Daniel Figueiredo, Gayane Avetisova,

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MICROBIAL PRODUCTION OF THE ESSENTIAL AMINO ACID L-TRYPTOPHAN FOR FOOD AND NUTRITION

Gayane Avetisova, Vahe Ghochikyan, Gevorg Tsarukyan, Susanna Keleshyan, Zhaneta Karapetyan,

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BACTERIAS FIJADORAS DE NITRÓGENO COMO ALTERNATIVA AL USO DE FERTILIZANTES QUÍMICOS PARA LA PRODUCCIÓN DE Chlorella vulgaris

Ana Sánchez-Zurano, Silvia Villaró Cos, Daniel Figueiredo, Lusiné Melkonian, Francisco Gabriel Acién,

Tomás Lafarga, Luísa Gouveia

2023 274-275

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ԱԶՈՏ ՖԻՔՍՈՂ ՄԱՆՐԷՆԵՐԻ ԵՎ ՄԻԿՐՈՋՐԻՄՈՒՌԻ ԿՈՆՍՈՐՑԻՈՒՄՆԵՐԸ՝ ՈՐՊԵՍ ԿԵՆՍԱՊԱՐԱՐՏԱՆՅՈՒԹ, ԿԵՆՍԱԽԹԱՆԻՉ ՈՒ ԿԵՆՍԱՊԵՍՏԻՑԻԴ

Մելքոնյան Լ., Ավետիսովա Գ., Կարապետյան Ժ., Թոփլաղալցյան Ա., Գուվեյա Լ. (Gouveia L.)

2023 190-191

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Obtaining Osmo resistant Mutants in Nitrogen Fixing Bacteria Isolated from Saline Soils

Keleshyan S. K, Karapetyan Z. V., Toplaghaltsyan A. G., Avetisova G. Y., Melkonyan L. H.,

Vardanyan A. A., Ghochikyan V. T.

Current Microbiology 2022 251

Статья

Brevibacterium flavum մանրէի հիման վրա L-տրիպտոֆանի շտամ-արտադրիչի ստացման գենետիկասելեկցիոն մոտեցումները

Ավետիսովա Գ., Մելքոնյան Լ., Ծառուկյան Գ., Ղոչիկյան Վ., Քելեշյան Ս., Կարապետյան Ժ.,

Թոփլաղալցյան Ա.

ՀԻՄՆԱՐԱՐ ԵՎ ԿԻՐԱՌԱԿԱՆ ԳԻՏԱԿԱՆ ՀԵՏԱԶՈՏՈՒԹՅՈՒՆՆԵՐ. ԱՐԴԻԱԿԱՆ ԽՆԴԻՐՆԵՐ ԵՎ ՁԵՌՔԲԵՐՈՒՄՆԵՐ
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Статья

Microbial approaches for amino acids production

A. Paloyan, L. Melkonyan, G. Avetisova

Microbial Syntrophy-Mediated Eco-enterprising 2022 177-209

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Enzymatic activity of nitrogen-fixing bacteria isolated from armenian saline soils
Toplaghaltsyan A., Karapetyan Zh., Keleshyan S., Avetisova G., Melkonyan L., Tsarukyan G.,

Ghochikyan V.

International Scientific Conference on Microbial Biotechnology, 5th edition 2022 55-60

Конференция

GROWTH DYNAMICS OF NITROGEN-FIXING BACTERIA AT INCREASED SALINITY
Toplaghaltsyan A., Karapetyan Zh., Keleshyan S., Avetisova G., Melkonyan L., Tsarukyan G.,

Ghochikyan V.

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ENZYMATIC ACTIVITY OF NITROGEN-FIXING SOIL BACTERIA
Toplaghaltsyan A., Karapetyan Zh., Keleshyan S., Avetisova G., Melkonyan L., Tsarukyan G.,

Ghochikyan V.

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Статья

Biostimulant and biopesticide potential of microalgae growing in piggery wastewater
Alice Ferreira, Lusine Melkonyan, Sofia Carapinha, Belina Ribeiro, Daniel Figueiredo, Gayane Avetisova,

Luisa Gouveia

Environmental Advances 2021 100062

Статья

Co-cultivation of L-tryptophan-producing strain Brevibacterium flavum and Azotobacter vinelandii as an alternative method for indole-3-acetic acid production
Avetisova G., Melkonyan L., Toplaghaltsyan A., Tsarukyan G., Keleshyan S., Karapetyan Z.,

Ghochikyan V.

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Статья

Influence of Vitamins on L-Tryptophan Production by Brevibacterium flavum
Melkonyan L., Avetisova G., Tsarukyan G., Keleshyan S., Karapetyan Z., Toplaghaltsyan A.,

Ghochikyan V.

BIOTECHNOLOGY: SCIENCE AND PRACTICE, INNOVATION AND BUSINESS 2021 82-86

Конференция

Determination of Enzymatic Activity of Nitrogen-Fixing Bacteria Isolated from Saline Soils of Armenia
Toplaghaltsyan A., Keleshyan S., Karapetyan Z., Avetisova G., Melkonyan L., Tsarukyan G.

2021 78-79

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Статья

Production and properties of a novel raw starch hydrolyzing α amylase from Bacillus amyloliquefaciens MDC1974

Paloyan A.M., Melkonyan L.H., Sargsyan A.S., Mkhitaryan A.V., Dyukova K.G., Hambardzumyan A.A.

Electronic Journal of Natural Sciences of NAS RA 2020 4-11

Конференция

ASSESSMENT OF BIOSTIMULANT AND BIOPESTICIDE POTENTIAL OF MICROALGAE FOLLOWING PIGGERY WASTEWATER TREATMENT

A. Ferreira, L. Melkonyan, S. Carapinha, B. Ribeiro, D. Figueiredo, G. Avetisova, L. Gouveia

2020 17-19

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Статья

Scenedesmus obliquus microalga-based biorefinery - from brewery effluent to bioactive compounds, biofuels and biofertilizers – aiming a circular bioeconomy

A. Ferreira, B. Ribeiro, M.L.A. Tavares, J. Vladic, S. Vidovic, D. Cvetkovic, L. Melkonyan, G. Avetisova, V. Goginyan, L. Gouveia

Biofuels, Bioproducts and Biorefining 2019 1169-1186

Статья

Характеристика микрофлоры засоленных почв Армении

С.К. Келешян, Ж. В. Карапетян, А.Г. Топлакалцян, Г.Е. Аветисова, Л.О. Мелконян, В.Т. Кочикян

Хранение и переработка сельхозсырья 2019 76-85

Конференция

New α- amylase from Bacillus sp. MDC 3500 strain

A. Paloyan, L. Melkonyan, A. Hambardzumyan, A. Mkhitaryan, G. Avetisova

2019 47

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Конференция

Industrial wastewater-grown Scenedesmus obliquus biomass-to-fuels and biofertilizers production: an integrative approach

A. Ferreira, B. Ribeiro, J. Vladic, S. Vidovic, D. Cvetkovic, L. Melkonyan, G. Avetisova, A.F. Ferreira, A. Reis, L. Gouveia

2019 2.B.8

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Конференция

Tiny Microalgae For Huge Applications. Biorefinery Approach

Alice Ferreira, Sofia Carapinha, Jelena Vladic, Senka Vidovic, Dragoljub Cvetkovic, Lusine Melkonyan, Gayane Avetisova, Luisa Gouveia

2019 251

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Конференция

Agrobacterium sp. as nitogen-fixing bacteria: effect of osmo-resistant strains on the growth of plants in saline soils of Armenia

S. Keleshyan, Zh. Karapetyan, A. Toplaghaltsyan, G. Avetisova, L. Melkonyan, G.Tsarukyan,

V. Ghochikyan

2019 31-32

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Конференция

New α-amylase with potential to commercialize
A. Paloyan, L. Melkonyan, A. Mkhitaryan, K. Dyukova, A. Hambardzumyan

2019 60

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Учебник

Combining Microalgae-Based Wastewater Treatment with Biofuel and Bio-Based Production in the Frame of a Biorefinery. In: Hallmann A., Rampelotto P. (eds) Grand Challenges in Algae Biotechnology. Grand Challenges in Biology and Biotechnology
Alice Ferreira, Alberto Reis, Senka Vidovic, Jelena Vladic, Spyros Gkelis, Lusine Melkonyan,

Gayane Avetisova, Roberta Congestri, Gabriel Acién, Raul Muñoz, Pierre Collet, Luisa Gouveia

2019 591

Конференция

Optimization of fermentation condition for a-amylase production
A. Paloyan, L. Melkonyan, A. Sargsyan, T. Arakelyan, M. Izmailyan, G. Avetisova, A. Hambardzumyan,

A. Saghyan

2018 177

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Конференция

Study of some metals effect on a-amylase activity of Bacillus amyloliquefaciens MDC 1974 strain
L. Melkonyan, A. Paloyan, A. Hambardzumyan, G. Avetisova, A. Mkhitaryan, A. Sargsyan, S. Stepanyan,

S. Arabachyan, A. Saghyan

2018 178

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Конференция

Study of synthesis of amino acids by Azotobacter vinilandii AV1 strain
G. Avetisova, L. Melkonyan, A. Paloyan, V. Ghochikyan, A. Tsaturyan, S. Keleshyan, Z. Karapetyan,

A. Toplaghaltsyan

2018 77-78

Конференция

Optimization of fermentation conditions for histidine producers resistant to non-protein amino acids
A. Toplaghaltsyan, S. Keleshyan, Z. Karapetyan, G. Avetisova, L. Melkonyan, A. Vardanyan

2018 101

Статья

Новое биоудобрение «Азоцеовит-1» для органического овощеводства и его испытание на посадках перца и баклажана в Армении
К.М. Сарикян, Г.Ж. Саргсян, Г.Е. Аветисова, Л.О. Мелконян

Неделя науки в Крутах -2017 2017 264-271

Статья

НОВЫЙ БИОПРЕПАРАТ «ЭКОБИОФИД+» ДЛЯ ОРГАНИЧЕСКОГО ЗЕМЛЕДЕЛИЯ И ЕГО ИСПЫТАНИЕ НА ПОСАДКАХ ТОМАТОВ В АРМЕНИИ
Мелконян Л.О., Степанян С.Х., Аветисова Г.Е., Сарикян К. М.

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2017 384-387

Статья

Influence of Glutamate Dehydrogenase Activity on L-Proline Synthesis
S.K. Keleshyan, Zh.V. Karapetyan, A.Kh. Chakhalyan, N.A. Hovhannisyan, G.Ye. Avetisova,

M.B. Chitchyan, G.G. Oganezova, M.A. Melkumyan, N.S. Avetisyan, L.H. Melkonyan

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Конференция

BIOTECHNOLOGICAL APPROACHES FOR OBTAINING OF NEW COMPLEX BIOPREPARATION FOR ORGANIC AGRICULTURE
L. Melkonyan, G. Avetisova, A. Chakhalyan, S. Keleshyan, Zh. Karapetyan, S. Stepanyan,

A. Toplaghaltsyan, A. Saghyan

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PURIFICATION AND CHARACTERIZATION OF A-AMYLASE FROM BACILLUS AMYLOLIQUIFACIENS
A. Paloyan, L. Melkonyan, A. Mkhitaryan, A. Hambardzumyan, A. Saghyan

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Конференция

Substrate specifity of x-amylase isolated from B.amiloliquefaciens strain MDC1974
A. Paloyan, L. Melkonyan, A. Sargsyan, A. Mkhitaryan, A. Hambardzumyan

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Конференция

Effect of " Ecobiofeed+ " Biopreparation on Eggplant (Solanum Melongena S.)
G. Avetisova, L. Melkonyan, S. Stepanyan, K. Sarikyan, V. Ghochikyan, S. Keleshyan, Zh. Karapetyan,

A. Toplaghaltsyan

2017 63

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Конференция

Screening of lactic acid bacteria with a wide spectrum of antifungal activity
A. Toplaghaltsyan, S. Keleshyan, Zh. Karapetyan, N. Khachaturian, G. Avetisova, L. Melkonyan,

S. Stepanyan

2017 66-67

Статья

Изучение ингибирующих свойств новых небелковых аминокислот и отбор эффективных аналогов L-аминокислот для селекции высокоактивных штаммов-продуцентов

А.Х. Чахалян, С.К. Келешян, Ж.В. Карапетян, А.Г. Давтян, Г.Е. Аветисова, Л.О. Мелконян, А.С. Дадаян, А.С. Сагиян

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The nitrogen-fixing strain for biopreparation

L.H. Melkonyan, G.H. Tepanosyan, G.Ye. Avetisova, A.Kh. Chakhalyan, S.Gh. Keleshyan, Zh.V. Karapetyan

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