



Gayane Yervand Avetisova

Institute of Pharmacy

Chair of Pharmaceutical Chemistry and Pharmacognosy

Assistant

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Education

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| Institution | Yerevan State University |
| Faculty | Faculty of Biology, Department of Biochemistry |
| Date | 1979 - 1984 |
| Degree name | Qualified specialist |

Scientific Rank/degree

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| Institution | «Scientific Research Institute of Biotechnology» CJSC |
| Date | 2004 |
| Degree name | Candidate |
| Specialty | Biological sciences |
| Scientific Supervisor | Kocharyan Shavarsh |
| Research Topic | OBTAINING OF HIGHLY ACTIVE STRAINS PRODUCERS OF L-VALINE AT BREVIBACTERIUM FLAVUM. TECHNOLOGY OF BIOSYNTHESIS L-VALINE IN INDUSTRIAL CONDITIONS |

Language skills

English

Work experience

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| Institution | Chair of Pharmchemistry and Pharmacognosy of Institute of Pharmacy of Yerevan State University |
| Period of time | 2006 till now |
| Rank/degree | assistant |

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| Institution | Scientific and Production Center "Armbiotechnology" SNPO NAS RA |
| Period of time | 1984 till now |
| Rank/degree | Leading researcher |

Scientific interests

- Biotechnology, Microbiology, Genetics

Membership

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| Institution | Scientific and Production Center “Armbiotechnology” SNPO NAS RA, Member in scientific council |
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| Period of time | 2022 till now |
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| Institution | secretary of scientists’ Board of Specialized Council 018 Biotechnology, |
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| Period of time | 2008 till now |
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| Institution | “Scientific Research Institute of Biotechnology” CJSC., scientific secretary of scientific council |
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| Period of time | 2005 - 2009 |
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State awards and honorary titles

2013 Certificate of Merit of NAS RA (For irreproachable work in the system of the National Academy of Sciences of RA)

2006 Certificate of Honour of Ministry of Trade and Industry of RA (In connection with the 35th anniversary of the “Scientific Research Institute of Biotechnology” CJSC)

Publications

Article

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

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

Vardanyan A. A., Ghochikyan V. T.

Current Microbiology 2022 251

Article

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

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

Թովլաղալցյան Ա.

ՀԻՄՆԱՐԱՐ ԵՎ ԿԻՐԱՌԱԿԱՆ ԳԻՏԱԿԱՆ ՀԵՏԱԶՈՏՈՒԹՅՈՒՆՆԵՐ. ԱՐԴԻՎԱԿԱՆ ԽՆԴԻՐՆԵՐ ԵՎ

ՋԵՆՔԲԵՐՈՒԽՆԵՐ

2022 173-187

Article

Microbial approaches for amino acids production

A. Paloyan, L. Melkonyan, G. Avetisova

Microbial Syntrophy-Mediated Eco-enterprising 2022 177-209

Article

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

Article

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., Toplaghalsyan A., Tsarukyan G., Keleshyan S., Karapetyan Z.,

Ghochikyan V.

BIOTECHNOLOGY: SCIENCE AND PRACTICE, INNOVATION AND BUSINESS 2021 6-10

Article

Influence of Vitamins on L-Tryptophan Production by *Brevibacterium flavum*

Melkonyan L., Avetisova G., Tsarukyan G., Keleshyan S., Karapetyan Z., Toplaghalsyan A.,

Ghochikyan V.

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

Article

***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

Article

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

Book

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

Article

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

Article

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.

Article

Influence of Glutamate Dehydrogenase Activity on L-Proline Synthesis

S.K. Keleshyan, Zh.V. Karapetyan, A.Kh. Chakhalyan, N.A. Hovhannisyanyan, G.Ye. Avetisova, M.B. Chitchyan, G.G. Oganezova, M.A. Melkumyan, N.S. Avetisyan, L.H. Melkonyan
Applied Biochemistry and Microbiology 2017 470-476

Article

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
Прикладная биохимия и микробиология (Applied Biochemistry and Microbiology) 2016 62-67
http://elibrary.ru/title_about.asp?id=7955

Article

The nitrogen-fixing strain for biopreparation

L.H. Melkonyan, G.H. Tepanosyan, G.Ye. Avetisova, A.Kh. Chakhalyan, S.Gh. Keleshyan, Zh.V. Karapetyan
Biological Journal of Armenia 2016 65-68
<http://www.flib.sci.am/eng/Biology/>

Conference

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

Conference

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

Conference

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

Conference

Optimization of fermentation condition for α -amylase production

A. Paloyan, L. Melkonyan, A. Sargsyan, T. Arakelyan, M. Izmailyan, G. Avetisova, A. Hambardzumyan, A. Saghyan

Conference

Study of some metals effect on α -amylase activity of *Bacillus amyloliquefaciens* MDC 1974 strain

L. Melkonyan, A. Paloyan, A. Hambardzumyan, G. Avetisova, A. Mkhitarian, A. Sargsyan, S. Stepanyan, S. Arabachyan, A. Saghyan

Conference

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. Toplaghalsyan

Conference

Optimization of fermentation conditions for histidine producers resistant to non-protein amino acids

A. Toplaghalsyan, S. Keleshyan, Z. Karapetyan, G. Avetisova, L. Melkonyan, A. Vardanyan

Conference

New α -amylase from *Bacillus* sp. MDC 3500 strain

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

Conference

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

Conference

Tiny Microalgae For Huge Applications. Biorefinery Approach

Alice Ferreira, Sofia Carapinha, Jelena Vladic, Senka Vidovic, Dragoljub Cvetkovic, Lusine Melkonyan,

Gayane Avetisova, Luisa Gouveia

Conference

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

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

V. Ghochikyan

Conference

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

Conference

Determination of Enzymatic Activity of Nitrogen-Fixing Bacteria Isolated from Saline Soils of Armenia

Toplaghalsyan A., Keleshyan S., Karapetyan Z., Avetisova G., Melkonyan L., Tsarukyan G.

Conference

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

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

Conference

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

Lusine Melkonyan, Alice Ferreira, Carolina Vela Bastos, Daniel Figueiredo, Gayane Avetisova, Zhaneta Karapetyan, Anna Toplaghaltsyan, Luisa Gouveia

Conference

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

Gayane Avetisova, Vahe Ghochikyan, Gevorg Tsarukyan, Susanna Keleshyan, Zhaneta Karapetyan, Anna Toplaghaltsyan, Lusine Melkonyan

Conference

GROWTH DYNAMICS OF NITROGEN-FIXING BACTERIA AT INCREASED SALINITY

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

Conference

ENZYMATIC ACTIVITY OF NITROGEN-FIXING SOIL BACTERIA

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