

Avetis Hovhannes Tsaturyan

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Scientific and Educational Center for Control and Monitoring of the Quality of Medicines

Head of laboratory

Education

Institution	YSU
Faculty	chemistry
Date	2001 - 2006
Degree name	Qualified specialist

Scientific Rank/degree

Institution	SPC Armbyotechnology NAS RA
Date	2013
Degree name	Candidate
Specialty	Chemical sciences
Scientific Supervisor	A Aghajanyan
Research Topic	Use of electromembrane method in the process of isolation and purification of biologically active substances

Language skills

English

Publications

Article

Neuroprotective Properties of Clove (*Syzygium aromaticum*): State of the Art and Future Pharmaceutical Applications for Alzheimer's Disease

Tatevik Sargsyan, Hayarpi Simonyan, Avetis Tsaturyan, Lala Stepanyan, Raffaele Pastore,

Caterina Vicidomini, Germano Guerra, Giovanni N. Roviello

Biomolecules 2025 452

Article

Optimal time for preparing *Amaranthus paniculatus* L. herb

Tatevik Sargsyan, Avetis Tsaturyan, Lala Stepanyan, Monika Israyelyan, Samvel Ghazaryan

Bulgarian Journal of Agricultural Science 2025 13-18

Article

Synthesis and Antifungal Activity of Fmoc-Protected 1,2,4-Triazolyl- α -Amino Acids and Their

Dipeptides Against Aspergillus Species

Tatevik Sargsyan, Avetis Tsaturyan, Nelli Hovhannisyan, Anna Mkrtchyan, Ashot Saghyan,
Giovanni N. Roviello, Caterina Vicidomini, Lala Stepanyan, Henrik Panosyan, Heghine Hakobyan,
Monika Israyelyan
Biomolecules 2025 2-21

Article

Isolation, purification, identification of melanin from grape pomace extracts, and its application areas

Armen Aghajanyan, Ela Minasyan, Tigran Soghomonyan, Gayane Melyan, Gayane Hovhannisyan,
Karine Yeghiyan, Kristina Karapetyan, Avetis Tsaturyan
Bioactive Compounds in Health and Disease 2025 204-2016

Article

Strategy for synthesizing O-protected (S)- α -substituted serine analogs via sequential Ni(ii)-complex-mediated cross-coupling and cycloaddition reactions

Anna S. Tovmasyan, Anna F. Mkrtchyan, Avetis H. Tsaturyan, Peter Langer, Andrei V. Malkov,
Ashot S. Saghyan
New Journal of Chemistry 2025 11640-11645

Article

A3-Mannich coupling reaction via chiral propargylglycine Ni(ii) complex: an approach for synthesizing enantiomerically enriched unnatural α -amino acids

Liana Hayriyan, Anna Grigoryan, Hasmik Gevorgyan, Avetis Tsaturyan, Armen Sargsyan, Peter Langer,
Ashot Saghyan, Anna Mkrtchyan
RSC Advances 2025 35379-35387

Article

Unnatural Phosphorus-Containing α -Amino Acids and Their N-FMOC Derivatives: Synthesis and In Vitro Investigation of Anticholinesterase Activity

Ani S. Dadayan, Anna F. Mkrtchyan, Atravazd S. Poghosyan, Slavik A. Dadayan, Lala A. Stepanyan,
Monika H. Israyelyan, Anna S. Tovmasyan, Avetis H. Tsaturyan, Nona A. Hovhannisyan,
Vigen O. Topuzyan, Tatevik H. Sargsyan, Ashot S. Saghyan
ChemistrySelect 2024 1-10

Article

Efficient isolation and characterization of functional melanin from various plant sources

Armen E. Aghajanyan, Artur A. Hambardzumyan, Ela V. Minasyan, Gayane J. Hovhannisyan,
Karine I. Yeghiyan, Tigran M. Soghomonyan, Sona V. Avetisyan, Vehary A. Sakanyan, Avetis H. Tsaturyan
International Journal of Food Science and Technology 2024 3545-3555

Article

Ion-chromatographic determination of common anions in drinking water in some regions of the Republic of Armenia

Avetis Tsaturyan, Lusine Sahakyan, Lusine Hayrapetyan, Ela Minasyan, Ani Chakhoyan,
Sergey Hayrapetyan, Ashot Saghyan
Pharmacia 2024 e135658

Article

Synthesis, Characterization, and Study of Catalytic Activity of Chiral Cu(II) and Ni(II) Salen Complexes in the α -Amino Acid C- α Alkylation Reaction

Anna S. Tovmasyan, Anna F. Mkrtchyan, Hamlet N. Khachatryan, Mary V. Hayrapetyan, Robert M. Hakobyan, Artavazd S. Poghosyan, Avetis H. Tsaturyan, Ela V. Minasyan, Viktor I. Maleev, Vladimir A. Larionov, Armen G. Ayvazyan, Norio Shibata, Giovanni N. Roviello, Ashot S. Saghyan
Molecules 2023 1180

Article

Valorization of whey-based side streams for microbial biomass, molecular hydrogen, and hydrogenase production

Anna Poladyan, Karen Trchounian, Ela Minasyan, Meri Iskandaryan, Hayarpi Aghekyan, Sargis Aghayan, Avetis Tsaturyan, Ani Paloyan, Garabed Antranikian, Lev Khoyetsyan
Applied Microbiology and Biotechnology 2023 4683–4696

Article

Development of an efficient method for obtaining lactose and lactulose from whey

Tatevik Sargsyan, Avetis Tsaturyan, Lilya Arstamyanyan, Anyuta Sargsyan, Jaklina Saribekyan,, Ani Voskanyan, Ella Minasyan, Monika Israelyan, Lala Stepanyan
Pharmacia 2023 1039-1046

Article

STUDY OF THE CHEMICAL COMPOSITION, ANTIBACTERIAL AND ANTIOXIDANT ACTIVITY OF VARIOUS EXTRACTS OF THE AERIAL PART OF LEONURUS CARDIACA

T. H. Sargsyan, L. A. Stepanyan, M. H. Israyelyan, K. J. Karapetyan, A. H. Tsaturyan
Farmacia 2023 1064-1071

Article

Antimicrobial Activity of Melanin Isolated from Wine Waste

E. Minasyan, A. Aghajanyan, K. Karapetyan, N. Khachatryan, G. Hovhannisyan, K. Yeghyan, A. Tsaturyan
Indian Journal of Microbiology 2023 7

Article

Development of the technology for producing water-soluble melanin from waste of vinary production and the study of its physicochemical properties

Armen E. Aghajanyan, Artur A. Hambardzumyan, Ela V. Minasyan, Avetis H. Tsaturyan, Ani M. Paloyan, Sona V. Avetisyan, Anichka S. Hovsepyan, Ashot S. Saghyan
European Food Research and Technology 2022 485-495

Article

Detection and development of a quantitation method for undeclared compounds in antidiabetic biologically active additives and its validation by high performance liquid chromatography

Virab Gurgen Kirakosyan, Avetis Hovhannes Tsaturyan, Lilit Eduard Poghosyan, Ella Vardan Minasyan, Hayk Razmik Petrosyan, Lusine Yurik Sahakyan, Tatevik Hovhannes Sargsyan
Pharmacia 2022 45-50

Article

DEVELOPMENT OF A RAPID AND EFFICIENT METHOD FOR QUANTITATIVE DETERMINATION OF

N-NITROSODIMETHYLAMINE IMPURITY BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY IN METFORMIN HYDROCHLORIDE, LOSARTAN POTASSIUM, VALSARTAN AND RANITIDINE MEDICINAL RAW MATERIALS AND IT

V. G. KIRAKOSYAN, S. M. VARDAPETYAN, L. H. VARDERESYAN, A. H. TSATURYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2021 296-299

Article

Asymmetric synthesis, biological activity and molecular docking studies of some unsaturated α -amino acids, derivatives of glycine, allylglycine and propargylglycine

A. F. Mkrtchyan, A. S. Saghyan, L. A. Hayriyan, A. S. Sargsyan, A. J. Karapetyan, A. S. Tovmasyan, A. H. Tsaturyan, E. V. Minasyan, A. S. Poghosyan, A. M. Paloyan, H. A. Panosyan, Lu. Yu. Sahakyan
Journal of Molecular Structure 2020 127850

Article

Using the Ni-[(Benzylpropyl)amino]benzophenone complex in the Glaser reaction for the synthesis of bis α -amino acids

Anna F. Mkrtchyan, Liana A. Hayriyan, Ani J. Karapetyan, Anna S. Tovmasyan, Avetis H. Tsaturyan, Victor N. Khrustalev, Viktor I. Maleev, Ashot S. Saghyan
New Journal of Chemistry 2020 8

Article

Исследование асимметрического нуклеофильного бис-присоединения дегидроаланиновых комплексов Ni(II)

Петросян С. Г., Симонян А. М, Мкртчян А. Ф., Саакян Л. Ю., Цатурян А. О., Сагян А. С.
Հայաստանի քիմիական հանդես 2020 213-222

Article

СИНТЕЗ ЭНАНТИОМЕРНО ОБОГАЩЕННОЙ (S)-2-АМИНО-5-(4-ФТОРФЕНИЛ)ПЕНТ-4-ЕНОВОЙ КИСЛОТЫ И ЕЕ α -АЛЛИЛЗАМЕЩЕННОГО АНАЛОГА

А. С. САГЯН, З. З. МАРДИЯН, А. Ф. МКРТЧЯН, А. О. ЦАТУРЯН
Химический Журнал Армении 2018 107-116

Article

ROUND-LEAVED WINGTEGREEN (PYROLA ROTUNDIFOLIA) AS A VALUABLE MEDICINAL PLANT RAW MATERIAL

S. A. DADAYAN, L. A. STEPANYAN, A. S. DADAYAN, M. B. GASOYAN, H. R. PETROSYAN, A. S. POGHOSYAN, A. O. TSATURYAN
Chemical Journal of Armenia 2018 625-633

Article

TARGETED SYNTHESIS OF 9-FLUORENYLMETHYLOXYCARBONYLGLYCYL-(S)- β -[4-ALLYL-3-PROPYL-5-THIOXO-1,2,4-TRIAZOL-1-YL]- α -ALANINE AND STUDY OF ITS EFFECT ON COLLAGENASE ACTIVITY

T. H. SARGSYAN, Yu. M. DANGHYAN, S. M. JAMGARYAN, A. S. SARGSYAN, E. A. GYULUMYAN, H. A. PANOSYAN, N. A. HOVHANNISYAN, A. M. HOVHANNISYAN, A. H. TSATURYAN, A. S. SAGHYAN
Chemical Journal of Armenia 2018 571-578

Article

Синтез ди- и трипептидов, содержащих (S)-2-амино-3-[4-аллил-(3-пиридин-4`- и (S)-2-амино-3-[4-аллил-(3-пиридин-3`-ил)-5-тиоксо-1,2,4-триазол-1-ил]-пропио-новые кислоты

Саргсян, Т. О., Цатурян, А. О., Сагиян, А. С., Дангян, Ю. М., Дангян, В. Т., Джамгарян, С. М.,
Гюлумян, Э. А., Паносян, Г. А.

Հայաստանի քիմիական հանդես 2017 92-99

<http://www.flib.sci.am/eng/Qimia/Frame.html>

Article

МОДЕЛИРОВАНИЕ ПОТЕНЦИАЛЬНО БИОЛОГИЧЕСКИ АКТИВНЫХ (S)- α -АЛЛИЛГЛИЦИНСОДЕРЖАЩИХ ПЕПТИДОВ, ВЫЯВЛЕНИЕ ИХ ВОЗМОЖНЫХ БИОЛОГИЧЕСКИХ СВОЙСТВ С ПОМОЩЬЮ ПРОГРАММЫ ПАСС-ОНЛАЙН И ЦЕЛЕВОЙ СИНТЕЗ

Т. О. САРГСЯН, Ю. М. ДАНГЯН, В. Т. ДАНГЯН, С. М. ДЖАМГАРЯН, Э. А. ГЮЛУМЯН, Г. А. ПАНОСЯН,
А. О. ЦАТУРЯН, А. С. САГЯН

Հայաստանի քիմիական հանդես 2016 320-332

<http://www.flib.sci.am/eng/Qimia/Frame.html>

Article

Synthesis of optically pure (S)-2-amino-5-arylpent-4-ynoic acids by Sonogashira reactions and their potential use as highly selective potent inhibitors of aldose reductase

Silvio Parpart, Andranik Petrosyan, Syed Jawad Ali Shah, Raji Akeem Adewale, Peter Ehlers,

Tatevik Grigoryan, Anna F. Mkrtchyan, Zorayr Z. Mardiyani, Ani J. Karapetyan, Avetis H. Tsaturyan,

Ashot S. Saghyan, Jamshed Iqbal, Peter Langer

RSC Advances 2015 107400-107412

<http://pubs.rsc.org/en/journals/journalissues/ra?e=1#!subjects>

Article

АСИММЕТРИЧЕСКИЙ СИНТЕЗ НОВЫХ ЭНАНТИОМЕРНО ОБОГАЩЕННЫХ НЕНАСЫЩЕННЫХ α -АМИНОКИСЛОТ

А. Ф. МКРТЧЯН, З. З. МАРДИЯН, А. Ж. КАРАПЕТЯН, А. С. ПОГОСЯН, С. Г. ПЕТРОСЯН, А. М. СИМОНЯН,
А. О. ЦАТУРЯН, А. С. САГИАН

Химический Журнал Армении 2015 403-412

<http://www.flib.sci.am/eng/Qimia/Frame.html>

Conference

MODELING OF DIPEPTIDES CONTAINING POTENTIAL BIOLOGICALLY ACTIVE (S)- α -PROPARGYLGYCINE, DISCLOSURE OF POSSIBLE BIOLOGICAL PROPERTIES AND TARGETED SYNTHESIS

T.H. Sargsyan, A.H. Tsaturyan, A.M. Hovhannisyan, A.S. Saghyan

Conference

Synthesis and PASS prediction novel biologically active short peptides

T.H. Sargsyan, N. Hovhannisyan, A.S. Saghyan, A.M. Hovhannisyan, A.H. Tsaturyan, S.M. Jamgarian,
E. A. Gyulumyan, Yu. M. Danghyan

Conference

Modeling, synthesis and study of impact of peptides containing unsaturated double bond amino acids on collagenase activity

T. Sargsyan, T.Khachatryan, A.S. Sargsyan, L.Yu. Danghyan, S.M. Jamgarian, E.A.Gyulumyan,

N. A. Hovhannisyan, L.A. Hayriyan, A.M. Hovhannisyan, A. H. Tsaturyan, A.S. Saghyan

Conference

Synthesis of optically pure (S)-2-amino-5-(3-fluorophenyl)-2-(prop-2-yn-1-yl)pent-4-ynoic acid by using Sonogashira reaction

Z.Z. Mardiyan, L.A. Hayriyan, A.F.Mkrtchyan, A.X.Tsaturyan, A.J. Karapetyan, H.V. Adonc, H.M. Simonyan, S.Gh.Petrosyan, L.Yu.Sahakyan, A.S. 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

Modeling, synthesis and study of impact of N-t-BOC-(S)- β -[4-allyl-3-(pyridin-3'-yl)-5-thioxo-1,2,4-triazol-1-yl]- α -alanyl-(S)-alanyl-glycyl-(S)- β -[4-allyl-3-(pyridin-3'-yl)-5-thioxo-1,2,4-triazol

T. Sargsyan, A. Sargsyan, Yu. Danghyan, S. Jamgaryan, E. Gyulumyan, A. Hovhannisyan,

N. Hovhannisyan, A. Tsaturyan, A. Saghyan
