

# Anahit Mchita Hovhannisyan

## Institute of Pharmacy

Chair of Pharmaceutical Technology and Pharmacy Economics and Management  
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## 🎓 Education

<b>Institution</b>	Yerevan state university
<b>Faculty</b>	Biology faculty, chair of biochemistry
<b>Date</b>	1981 - 1986
<b>Degree name</b>	Qualified specialist

## 🎓 Scientific Rank/degree

<b>Institution</b>	“Study of the metabolic activity of non- protein new amino acids and peptides”, Scientific and Production Centre “Armbiotechnology” NAS RA (P.H.D. 03.00.14)
<b>Date</b>	2010
<b>Degree name</b>	Associate professor
<b>Specialty</b>	Biological sciences

## 🌐 Language skills

Русский

## 📁 Work experience

<b>Institution</b>	YSU
<b>Period of time</b>	2000 till now
<b>Rank/degree</b>	The head of chair

## 🔍 Scientific interests

- Antibiotic resistance problems

## 📅 Participation in international conferences and seminars

<b>13/12/2022 - 23/12/2022</b>	Screening of bioactive compounds seminar A.N.Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences
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## Publications

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### Article

#### **Synthesis of enantiomerically enriched $\beta$ -N-amino (S)- $\alpha$ -alanine analogs via sequential reactions on a chiral Ni(ii) complex**

Emma A. Khachatryan, Lala A. Stepanyan, Hasmik R. Gevorgyan, Armen S. Sargsyan,

Anahit M. Hovhannisyan, Anna F. Mkrtchyan, Andrei V. Malkov, Ashot S. Saghyan

Organic & Biomolecular Chemistry 2026 2026

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### Article

#### **INVESTIGATION OF BIOLOGICALLY ACTIVE SUBSTANCES AND ANTIMICROBIAL ACTIVITY IN STEVIA REBAUDIANA EXTRACTS**

M. S. GHAZARYAN, T. H. SARGSYAN, G. F. MKRTCHYAN, S. H. APOYAN, A. S. DADAYAN,

A. V. GEOLCHANYAN, S. M. VARDAPETYAN, Kh. S. HAKOBYAN, A. M. HOVHANNISYAN

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2025 p. 12-21

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### Article

#### **Synthesis and Antitumor and Antibacterial Activity of Sulfanyl-Substituted 3-(m-tolyl)-3H-spiro[benzo[h]quinazoline-5,1'-Cycloheptane]-4(6H)-ones ( Синтез, противоопухолевая и антибактериальная активность сульфанилзамещенных 3-(м-толил)-3H-спиро[бензо[h]к**

Markosyan A.I., Vardapetyan S.M., Hovhannisyan A.M., Bekjanyan R.A., Hakopyan, Kh. S., Gabrielyan S.H., Dangyan, M. Yu., Arakelyan H.H., Arsenyan F.H., Sagyan A.S.

Химико-фармацевтический журнал (Pharmaceutical Chemistry Journal) 2025 529-533

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### Article

#### **Development of a waste-free technology for comprehensive processing of Cornus mas (dogwood) fruits: Production of natural viscous extract and medical suppositories with potential anti-hemorrhoidal activity**

Slavik Dadayan, Artavazd Poghosyan, Lilit Arstamyan, Ani Chakhoyan, Gohar Mkrtchyan,

Anahit Hovhannisyan, Narine Hovhannisyan, Ani Dadayan

Functional Foods in Health and Disease 2025 610-624

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### Article

#### **Fighting infections with non-proteinogenic amino acids - biphenyl derivatives**

Nelli Hovhannisyan, Gohar Oganezova, Nelli Avetisyan, Melanya Ghazaryan, Luiza Karapetyan,

Armen Sargsyan, Zorayr Mardiyan, Silva Gabrielyan, Olga Davtyan, Tamara Davidyan,

Anahit Hovhannisyan

Functional Food Science 2025 611-620

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### Article

#### **Biomacromolecular interactions and antioxidant properties of novel synthetic amino acids targeting DNA and serum albumin**

Tatevik Sargsyan, Heghine Hakobyan, Hayarpi Simonyan, Tigran Soghomonyan, Avetis Tsaturyan,

Anahit Hovhannisyan, Siranush Sardaryan, Ashot Saghyan, Giovanni N. Roviello

Journal of Molecular Liquids 2025 1-13

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Article

**COMPREHENSIVE STUDY OF JUNIPERUS SPP. GROWING IN ARMENIA: FROM GLOBAL EXPERIENCE TO LOCAL APPLICATION**

T. H. SARGSYAN, A. G. MKRTCHYA, A. R. QESHISHYAN, A. M. HOVHANNISYAN, Kh. S. HAKOBYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2025 67-83

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Article

**COMPARATIVE STUDY OF FATTY ACIDS FORMATION IN NATURAL AND GENETICALLY MODIFIED BLACKBERRY SEEDS**

S. A. DADAYAN, A. S. POGHOSYAN, L. A. ARSTAMYAN, A. M. HOVHANNISYAN, S. G. GHAZARYAN,

M. A. SHEYRANYAN, A. S. DADAYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2024 114-120

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Article

**Targeted synthesis of dipeptides containing derivatives of (S)-phenylalanine and study of their antifungal activity**

Tatevik Sargsyan, Lala Stepanyan, Monika Israyelyan, Heghine Hakobyan, Nune Khachatryan,

Sona Gevorgyan, Anahit Hovhannisyanyan, Silva Zhamharyan

Pharmacia 2024 1-6

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Article

**Synthesis and evaluation of new mono- and binuclear salen complexes for the  $\alpha$ -alkylation reaction of amino acid substrates as chiral phase transfer catalysts**

Anahit M. Hovhannisyanyan, Anna S. Tovmasyan, Anna F. Mkrtchyan, Karapet R. Ghazaryan,

Ela V. Minasyan, Olgert L. Dallakyan, Mikayel S. Chobanyan, Hayk Zakaryan, Giovanni N. Roviello,

Ashot S. Saghyanyan

Molecular Catalysis 2024 114618

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Article

**Synthesis of enantiomerically enriched  $\beta$ -substituted analogs of (S)- $\alpha$ -alanine containing 1-phenyl-1H-1,2,3-triazole groups**

Artavazd S. Poghosyan, Ashot S Saghyanyan, Peter Langer, Ela V. Minasyan, Karapet R. Ghazaryan,

Anahit M. Hovhannisyanyan, Anna F Mkrtchyan, Volodya Mirzoyan, Emma A. Khachatryan

Amino Acids 2024 67

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Article

**SYNTHESIS OF DIPEPTIDES AND IN VITRO EVALUATION OF ANTIFUNGAL ACTIVITY**

Anyuta V. Sargsyan, Tatevik H. Sargsyan, Zhaklina N. Saribekyan, Ani O. Voskanyan, Ani G. Mkrtchyan,

Gohar F. Mkrtchyan, Svetlana H. Apoyan, Arpine V. Geolchanyan, Khachik S. Hakobyan,

Anahit M. Hovhannisyanyan

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2024 9

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Article

**COMPARATIVE STUDY OF THE CONTENT OF ANTHOCYANINS IN THE FRUITS OF BLUEBERRIES, BLACKBERRIES AND BLACKCURRANTS. DEVELOPMENT OF A TECHNOLOGICAL METHOD FOR OBTAINING PARTIALLY PURIFIED NEW-GALENIC EXTRACTS**

A. S. DADAYAN, A. S. POGHOSYAN, S. G. GHAZARYAN, A. M. HOVHANNISYAN, M. S. GHAZARYAN,

S. A. DADAYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2023 100-109

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Article

**THE STUDY OF ANTIOXIDANT ACTIVITY OF BIOLOGICALLY ACTIVE SUBSTANCES IN THE ALCOHOL EXTRACT OF NETTLE LEAVES**

S. A. APOYAN, S.M. VARDAPETYAN, G.F. MKRTCHYAN, A.M. HOVHANNISYAN

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 207-213

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Article

**STUDY OF OIL AND POMACE FROM GRAPE SEEDS FOR THE IDENTIFICATION OF PREREQUISITES OF THEIR COMPLEX PROCESSING**

T.H. SARGSYAN, A.S. DADAYAN, E.V. MINASYAN, A. M. HOVHANNISYAN, L.A. STEPANYAN,

A.S. POGOSYAN, M.H. ISRAYELYAN, S.A. DADAYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2022 18-30

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Article

**COMPARATIVE STUDY OF FATTY ACID COMPOSITION OF WHITE AND BLACK SESAME OILS AND DEVELOPMENT OF A RELATIVELY EFFICIENT METHOD FOR ISOLATING THE NATURAL ANTIOXIDANT SESAMOL**

A. S. Dadayan, A. S. Poghosyan, S. G. Ghazaryan, E.V. Minasyan, A. M. Hovhannisyan, S. A. Dadayan

Proceedings of the YSU B: Chemical and Biological Sciences 2022 203-217

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Article

**THE INFLUENCE OF NON-PROTEIN AMINO ACIDS AND PEPTIDES ON BACTERIAL COLLAGENASE**

A. M. HOVHANNISYAN, A. S. SARGSYAN, A. J. KARAPETYAN, L. A. HAYRIYAN, M. A. MELKUMYAN,

G. G. OGANEZOVA, N. S. AVETISYAN, N. A. HOVHANNISYAN

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2022 126-130

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Article

**QUANTITATIVE DETERMINATION OF TANNIN IN NETTLE BY SPECTROPHOTOMETRIC AND CHROMATOGRAPHIC METHODS**

S. H. APOYAN, S. M. VARDAPETYAN, A. M. HOVHANNISYAN, G. F. MKRTCHYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2021 p. 12-15

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Article

**Quantitative analysis of biologically active substances and the investigation of antioxidant and antimicrobial activities of some extracts of Osage orange fruits**

Ani Slavik Dadayan, Lala Ashot Stepanyan, Tatevik Hovhannes Sargsyan, Anahit Mkhitar Hovhannisyan,

Slavik Arshak Dadayan

Pharmacia 2021 731-739

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Article

**STUDY OF PEPTIDES BIOACTIVITY SYNTHESIZED ON THE BASIS OF (S)- $\alpha$ -ALLYLGLYCINE NON-PROTEIN AMINO ACID**

T.H. SARGSYAN, A.M. HOVHANNISYAN, G.F. MKRTCHYAN, A.S. SARGSYAN

Chemical Journal of Armenia 2021 48-56

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Article

**Образование ассоциатов хлорофилла в растворах ацетона и этанола**

Апоян, С. А., Оганисян, А. М., Вардапетян, С. М., Мкртчян, Г. Ф.

Химический Журнал Армении 2019 25-33

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Article

**Исследования стабильности плазмид антибиотикорезистентности у почвенных условно-патогенных штаммов *Stenotrophomonas* и *Pseudomonas***

Бабаян Б.Г., Саргсян А.С., Багдасарян С.А, Мелкумян М.А., Давидян Т.С, Оганесян Н.А,

Оганесян А.М.

Авиценна 2019 13-17

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Article

**RESISTANCE TO  $\beta$ -LACTAM ANTIBIOTICS IN SOME SOIL STENOTROPHOMONAS AND PSEUDOMONAS.**

Hovhannisyan A.M., Hovhannisyan N. A., Babayan B.G., Sargsyan A.S., Davidyan T.S.

The scientific heritage 2019 32-38

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Manual

**Փափուկ դեղածվեր (դեղատնային տեխնոլոգիա)**

Ա.Հովհաննիսյան, Գ.Մկրտչյան

2019 196

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Article

**Heterocyclic substituted non-protein amino acids as inhibitors of *Clostridium histolyticum* collagenase**

A.M. Hovhannisyan, N. A. Hovhannisyan, A. G. Mkrtchyan, A.S. Sargsyan, B.G Babayan, N. S. Avetisyan

Հայաստանի կենսաբանական հանդես 2018 12-15

[http://biology.asj-oa.am/view/people/Hovhannisyan=3AA=2E\\_M=2E=3A=3A.html](http://biology.asj-oa.am/view/people/Hovhannisyan=3AA=2E_M=2E=3A=3A.html)

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Article

**TARGETED SYNTHESIS OF 9-FLUORENYLMETHYLOXYCARBONYLGLYCYL-(S)- $\beta$ -[4-ALLYL-3-PROPYL-5-THIOXO-1,2,4-TRIAZOL-1-YL]- $\alpha$ -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

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Article

**RESPONSE OF MULTIDRUG-RESISTANT PSEUDOMONAS AERUGINOSA STRAINS TO ACTION OF SYNTHETIC AMINO ACIDS AND PEPTIDES**

A. M. HOVHANNISYAN, N. A. HOVHANNISYAN, N. S. AVETISYAN, M. A. MELKUMYAN, G. G. OGANEZOVA,

M. H. KINOSYAN, M. B. CHITCHYAN

ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2017 54-57

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

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Article

**АМИНОКИСЛОТНЫЙ И МИНЕРАЛЬНЫЙ СОСТАВ НАДЗЕМНОЙ ЧАСТИ CHAMERION ANGSTIFOLIUM (L.) HOLUB**

A. С. ДАДАЯН, С. А. ДАДАЯН, Л. А. СТЕПАНЯН, Г. Ц. ОВСЕПЯН, А. Р. ПЕТРОСЯН, М. Б. ГАСОЯН,

А. М. ОГАННЕСЯН, Е. А. КАЛАШНИКОВА

Հայաստանի քիմիական հանդես 2017 558-564

<http://chemistry.asj-oa.am/>

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Article

**New generations of optically active non-proteinogenic  $\alpha$ -amino acids, synthesis and study**

Hovhannisyan A. M., Saghyan A. S., Mkrtchyan A. F., Simonyan H. M

Հայաստանի քիմիական հանդես 2016 81-101

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

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*Manual*

**Հեղուկ դեղածուր**

Ա.Հովհաննիսյան

2016 154

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*Conference*

**Novel synthetic peptides inhibiting the growth of multi-drug resistant *Pseudomonas aeruginosa* strains**

A.Hovhannisyan, N.Hovhannisyan, G. Oganezova, M.Melkumyan, N. Avetisyan, M.Kinosyan, M.Chitchyan

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*Conference*

**Synthesis and PASS prediction novel biologically active short peptides**

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

A.S. Saghyan

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*Conference*

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

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

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*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. Jamgaryan,

E. A. Gyulumyan, Yu. M. Danghyan

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*Conference*

**Novel synthetic amino acids and peptides demonstrating pharmacological properties**

A.Hovhannisyan, N. Hovhannisyan, N. Avetisyan, A. Mkrtchyan, G. Oganezova, M. Melkumyan,

M.Chitchyan, A.Sargsyan

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*Conference*

**Plasmids isolated from *Pseudomonas aeruginosa* soil strains carry the genes providing antibiotic resistance**

A.Hovhannisyan, N. Hovhannisyan, A. Mkrtchyan, A. Sargsyan, B. Babayan

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*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. Jamgaryan, E.A.Gyulumyan,

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

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*Conference*

**The Research of Aminoglycoside Resistance Spread in Non-Pathogenic Strains of**

**Pseudomonas Isolated From Soil**

A.Hovhannisyan, N. Hovhannisyan, A.Sargsyan, B. Babayan, M. Kinosyan, T.Davidyan, S. Bagdasaryan, M.Melkumyan, G.Oganezova

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*Conference*

**Study of the formation of chlorophyll associates in solutions of acetone and ethanol**

S.Apoyan, A. Hovhannisyan, S. Vardapetyan, G. Mkrtchyan

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*Conference*

**The research on sesquiterpene lactone in bitter wormwood growing in Armenia**

A.Mkrtchyan, L.Samsonyan, A. Hovhannisyan

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*Conference*

**“Study on stability of soil Pseudomonas and Xanthomonas plasmids possessing antibiotic resistance genes”**

Hovhannisyan N.A., Babayan B.G., Sargsyan A.S., Bagdasaryan S.A, Hovhannisyan A.M.

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*Conference*

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

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*Conference*

**Developing Soft Skills in the Path of Integration of Immunology and Vaccinology Course in the Yerevan State University Curricula**

L. Niazyan, A. Grigoryan, H. Panosyan, I. Bazukyan, A. Hovhannisyan, T. Abgaryan, Z. Aleksanyan, K. Sargsyan, A. Karapetyan

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