

Satenik Ghukas Petrosyan

Institute of Pharmacy

Ֆարմաբիոտեխնոլոգիայի և ֆարմակոլոգիայի ամբիոն
Associate professor

☎ 34-11
(060) 71-04-11

✉ satenikpetrosyan@ysu.am

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Education

Institution	Yerevan State University
Faculty	Chemistry (department of pharmaceutical chemistry)
Date	1998 - 2003
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Scientific and Production Centre “Armbiotechnology” NAS RA
Date	2011
Degree name	Candidate
Specialty	Chemical sciences
Scientific Supervisor	Ashot Saghyan
Research Topic	High selective and fast asymmetric synthesis of non-proteinogenic α -amino acids

Language skills

Հայերեն Русский English

Work experience

Institution	YSU Institute of Pharmacy Chair of Pharmaceutical Chemistry and Pharmacognosy
Period of time	2021 till now
Rank/degree	Associate professor

Institution	YSU Institute of Pharmacy
Period of time	2020 till now
Rank/degree	Resercher

Institution	SPC «Armbiotechnology» NAS RA
Period of time	2015 - 2018
Rank/degree	Senior Resercher

Institution	Scientific Research Institute of Biotechnology
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Period of time 2013 - 2015
Rank/degree Resercher

Institution YSU Institute of Pharmacy
Period of time 2011 - 2021
Rank/degree Assistant professor

Institution YSU Institute of Pharmacy
Period of time 2009 - 2011
Rank/degree Lecturer

Institution Scientific Research Institute of Biotechnology
Period of time 2008 - 2013
Rank/degree Jonior Resercher

Institution YSU Faculty of Chemistry Department of Pharmaceutical Chemistry
Period of time 2007 - 2009
Rank/degree Laboratory Assistant

Institution Scientific Research Institute of Biotechnology
Period of time 2005 - 2008
Rank/degree Senior laboratory Assistant

Institution Scientific Research Institute of Biotechnology
Period of time 2002 - 2005
Rank/degree Laboratory Assistant

Scientific interests

- Asymmetric synthesis of non protein amino acids
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Membership

Institution Chairman of methodological council of Institute of Pharmacy
Period of time 2017 till now

Institution Member of the Scientific Council of the Institute of Pharmacy
Period of time 2017 till now

Publications

Article

Binding of G-quadruplex DNA and serum albumins by synthetic non-proteinogenic amino acids: Implications for c-Myc-related anticancer activity and drug delivery

Hayarpi Simonyan, Satenik Petrosyan, Lusine Sahakyan, Gagik Melikyan, Ashot Sagyan,

Rosanna Palumbo, Caterina Vicidomini, Pasqualina Liana Scognamiglio, Giovanni N. Roviello

Molecular Therapy Nucleic Acids 2025 102478

Article

COMPARATIVE ANALYSIS OF METHODS FOR THE DETECTION AND QUANTITATIVE DETERMINATION OF ETHYL ALCOHOL IN THE BODY

Satenik Gh. Petrosyan, Lusine Yu. Sahakyan, Nelly A. Kirakosyan

Proceedings of the YSU B: Chemical and Biological Sciences 2024 1-8

Article

BSA Binding and Aggregate Formation of a Synthetic Amino Acid with Potential for Promoting Fibroblast Proliferation: An In Silico, CD Spectroscopic, DLS, and Cellular Study

Hayarpi Simonyan, Rosanna Palumbo, Satenik Petrosyan, Anna Mkrtchyan, Armen Galstyan,

Ashot Saghyan, Pasqualina Liana Scognamiglio, Caterina Vicidomini, Marta Fik-Jaskólka,

Giovanni N. Roviello

Biomolecules 2024 579

Article

Asymmetric Synthesis of Derivatives of Alanine via Michael Addition Reaction and their Biological Study

Mkrtchyan Anna, Tovmasyan Anna, Paloyan Ani, Sargsyan Armen, Simonyan Hayarpi, Sahakyan Lusine,

Petrosyan Satenik, Hayriyan Liana, Sargsyan Tatevik

Synlett 2022 2013-2018

Article

ISOLATION, IDENTIFICATION AND QUANTITATIVE DETERMINATION OF NIFEDIPINE FROM BIOLOGICAL MATERIAL

S.Gh. Petrosyan, L.Yu. Sahakyan, V.G. Kirakosyan, E.V. Minasyan, S. E. Sardaryan

Proceedings of the YSU B: Chemical and Biological Sciences 2021 204-211

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

Manual

Ջրային գոլորշիներով թորման եղանակով անջատվող նյութերի քիմիոնևաբանական բնութագրեր

Պետրոսյան Սաթենիկ Ղուկասի

2019 60

Article

Асимметрический синтез новых гетероциклически замещенных аналогов α -аминоасляной кислоты, содержащих замещенные триазольные группы в боковом радикале

А.С.Сагиян, Л.Ю.Саакян, А.М.Симонян, С.Г.Петросян, А.Ф.Мкртчян, М.А.Самвелян, Т.В.Кочикян,
П.Лангер
Химический Журнал Армении 2017 71-81
<http://www.flib.sci.am/eng/Qimia/Frame.html>

Article

Синтез положительно заряженных комплексов CoIII и их исследование в качестве хиральных катализаторов в реакциях асимметрического генерирования С-С связи.

Мкртчян А. Ф., Геолчанян А. В., Симонян А. М., Петросян С. Г., Сагиян А. С., Малеев В. И.,
Белоконь Ю. Н., Хрусталев В. Н

Химический Журнал Армении 2015 108-121
<http://www.flib.sci.am/eng/Qimia/Frame.html>

Article

АСИММЕТРИЧЕСКИЙ СИНТЕЗ НОВЫХ ЭНАНТИОМЕРНО ОБОГАЩЕННЫХ НЕНАСЫЩЕННЫХ α -АМИНОКИСЛОТ

А. Ф. МКРТЧЯН, Э. 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>

Article

Thiophenyl-substituted triazolyl-thione L-alanine: asymmetric synthesis, aggregation and biological properties

Ashot S. Saghyan, Hayarpi M. Simonyan, Petrosyan G. Satenik, Arpine V. Geolchanyan,
Giovanni N. Riovello, Domenica Musumeci, Valentina Roviello

Amino Acids 2014 2325-2332
<http://link.springer.com/journal/726>

Conference

Asymmetric synthesis of new enantiomerically enriched α -amino acids

A.S. Saghyan, A.F. Mkrтчyan, S.G. Petrosyan, J.A. Yedoyan, A.M. Simonyan, A.V. Geolchanyan,
P. Langer, A.M. Petrosyan

Conference

Metallocomplex precursors for the synthesis of 18f-fluorinated aromatic amino acids labelled in alpha fluoromethyl moiety

A. V. Geolchanyan, A. S. Saghyan, A. F. Mkrтчyan, S. G. Petrosyan, H. M. Simonyan, V. I. Maleev,
Yu. N. Belokon, R. Schibli, R. N. Krasikova

Conference

Asymmetric synthesis of new enantiomerically enriched α -amino acids

A.S. Saghyan, S.Gh. Petrosyan, A.V. Geolchanyan, A.F. Mkrтчyan, Z.Z. Mardiyan

Conference

Asymmetric synthesis of potential biologically active new heterocyclic analogs of (S)- α -alanine containing 3,4-substituted 5-thioxo-1,2,4- triazoles in the side-chain radical

H.M. Simonyan, L.Yu. Sahakyan, S.Gh. Petrosyan, A.F. Mkrтчyan, N.N. Baghyan,, J.N. Saribekyan,
A.S. Saghyan

Conference

Asymmetric synthesis of new heterocyclic analogs of alpha-aminopropionic acid and alpha-aminobutyric acid via Michael nucleophilic addition reactions

Hayarpi Simonyan, Lusine Sahakyan, Anna Mkrtchyan, Satenik Petrosyan, Ashot Saghyan

Conference

Asymmetric synthesis of enantiomerically enriched analog of α -aminobutyric acid containing heterocycle in the side chain radical .

L.Yu.Sahakyan, A.S. Saghyan, H.M. Simonyan, S.Gh.Petrosyan, A.F.Mkrtchyan

Conference

Asymmetric synthesis and biological activity of novel heterocycle substituted analogues of α -aminobutyric acid

Sahakyan L.Yu., Simonyan H. M, Petrosyan S. Gh., Mkrtchyan A. F., Simonyan M. A., Saghyan A. S.,

Sekoyan E. S.

Conference

Asymmetric synthesis of potential biologically active new analogs of (S)-alanine containing nitrogenous bases in the side-chain radical

H.M.Simonyan, L.Yu. Sahakjan, A.F.Mkrtchyan, S.Gh.Petrosyan, N.N.Baghyan, A.O.Voskanyan,

J.N.Saribekyan, A.S.Saghyan

Conference

Асимметрический синтез новых производных (S)- α -аланина, содержащих 3-замещенные 4-изобутил-5-тиоксо-1,2,4-триазолы в боковом радикале

А.М.Симонян, Н.Н.Багян, А.О.Восканян, Ж.Н.Сарибекян, Л.Ю.Саакян, А.Ф.Мкртчян, С.Г.Петросян,

А.С.Сагиян

Conference

Asymmetric synthesis of enantiomerically enriched analogs of N-allylglycine

L.A.Hayriyan, A.F.Mkrtchyan, Z.Z.Mardiyanyan, A.J.Karapetyan, H.V. Adonc, H.M. Simonyan, S.Gh. Petrosyan,

L.Yu.Sahakyan, 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. Mardiyanyan, 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

Asymmetric synthesis of optically active derivatives of α -aminobutyric acid containing triazole groups in the side chain radical

L.Sahakyan, H.Simonyan, S. Petrosyan, A. Mkrtchyan, A. Saghyan, E. Sekoyan

Conference

SYNTHESIS OF A NOVEL HETEROCYCLIC AMINO ACID AND ITS USE FOR THE SYNTHESIS OF SUGAR-AMINO ACID CONJUGATES

Hayarpi Simonyan, Giovanni Roviello, Anna Mkrtchyan, Lusine Sahakyan, Satenik Petrosyan,

