Satenik Ghukas Petrosyan

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Institute of Pharmacy
Chair of Pharmaceutical Chemistry and Pharmacognosy
Associate professor

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Chair of Pharmaceutical Chemistry and Pharmacognosy
Associate professor

Institute of Pharmacy
Research Center for the Institute of Pharmacy
Scientific Worker

Education

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

Scientific Rank/degree

Date	2011
Degree name	Candidate
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
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

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

Benzene-linked bis-amino acids via asymmetric synthesis: CD/UV studies, DNA and serum albumin binding, and MCF-7 cytotoxicity
Hayarpi Simonyan, Satenik Petrosyan, Nikolay Avtandilyan, Karapet Ghazaryan, Anna Mkrtchyan, Ruben Israyelyan, Ashot Saghyan, Giovanni N. Roviello
Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy 2026 128481 - 128481
https://doi.org/10.1016/j.saa.2026.128481

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-присоеденения 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

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,

Ashot Saghyan
2019 420

https://www.efmc-asmc.org/

Study manual

Ջրային գոլորշիներով թորման եղանակով անջատվող նյութերի քիմթունաբանական բնութագրեր
Պետրոսյան Սաթենիկ Ղուկասի
2019 60

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

2018 343

https://www.ldorganisation.com/v2/produits.php?langue=english&cle_menus=1238916...

Conference

Asymmetric sytesis of opticaly active derivatives of α-aminobutric acid containing triazole groups in the side chain radical
L.Sahakyan, H.Simonyan, S. Petrosyan, A. MKrtchyan, A. Saghyan, E. Sekoyan

2018 106-107

http://pharmconf2018.ysu.am/#parentVerticalTab7

Article

Асимметрический синтез новых гетероциклически замещенных аналогов α-аминомасляной 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

Conference

Asymmetric synthesis of potential biologically active new heterocyclic analogs of (s)-□ -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. Mkrtchyan, N.N. Baghyan,, J.N. Saribekyan,

A.S. Saghyan
2017 69

http://greenchemistry.alliedacademies.com/registration

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

2017 141-142

http://armbiotech.am/arm/conf/conf4/index.html

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.
2017 344-344

http://fizecomed.com/hy/page.php?id=67

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

2017 139

http://armbiotech.am/arm/conf/conf4/index.html

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
2017 71

Conference

Asymmetric synthesis of enantiomerically enriched analogs of NiII complexes of (S)-allylglycine
L.A.Hayriyan, A.F.Mrtchyan, Z.Z.Mardiyan, A.J.Karapetyan, H.V. Adonc, H.M. Simonyan, S.Gh. Petrosyan,

L.Yu.Sahakyan, A.S. Saghyan

2017 62

Conference

Synthesis of optically pure (S)-2-amino-5-(3-fluorophenyl)-2-(prop-2-yn-1-yl)pent-4-yonic acid b y 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

2017 92

Article

Синтез положительно заряженных комплексов CoIII и их исследование в качестве хиральных катализаторов в реакциях асимметрического генерирования C-C 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, З. З. МАРДИЯН, А. Ж. КАРАПЕТЯН, А. С. ПОГОСЯН, С. Г. ПЕТРОСЯН, А. М. СИМОНЯН,

А. О. ЦАТУРЯН, А. С. САГИЯН

Химический Журнал Армении 2015 403-412

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

Conference

Asymmetric synthesis of new enantiomerically enriched a-amino acids

A.S. Saghyan, A.F. Mkrtchyan, S.G. Petrosyan, A.M. Simonyan, A.V. Geolchanyan, J.A. Yedoyan,

A.M. Petrosyan, P. Langer

2015 1633

http://www.meduniwien.ac.at/icaap/

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. Mkrtchyan, S. G. Petrosyan, H. M. Simonyan, V. I. Maleev,

Yu. N. Belokon, R. Schibli, R. N. Krasikova

2015 627

http://www.meduniwien.ac.at/icaap/

Conference

Asymmetric synthesis of new enantiomerically enriched a-amino acids

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

2015 63

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