Svetlana Marat Hovhannisyan

svetlana.hovannisyan@ysu.am

Research Institute of Biology
Signal transduction and experimental pathology research group from
Junior Researcher

Faculty of Biology
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Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Charir of Biochemistry, Microbiology and Biotechnology
Date	2020 - 2022
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Biology, Charir of Biochemistry, Microbiology and Biotechnology
Date	2016 - 2020
Degree name	Bachelor

Language skills

Русский Deutsch English

Work experience

Institution	Yerevan State University, Research Institute of Biology, Laboratory of Basic and Pathological Biochemistry
Period of time	2023 till now
Rank/degree	Junior researcher

Institution	Yerevan State University, Research Institute of Biology, Laboratory of Basic and Pathological Biochemistry
Period of time	2022 - 2023
Rank/degree	Senior laboratory assistant

Publications

Article

ALTERATIONS IN ARGINASE ACTIVITY, NITRIC OXIDE, AND MDA LEVELS IN BONE MARROW DURING DMBA-INDUCED BREAST CANCER IN RATS

Svetlana M. Hovhannisyan, Aqsana S. Hakobyan, Arpine N. Hakobyan, Astghik A. Mkrtchyan,

Hayarpi G. Javrushyan

Proceedings of the YSU B Chemical and Biological Sciences 2025 113-121

Conference

Bee Venom as a Source of Novel Antimicrobial Agents: A Regional Study from Armenia

Inesa Semerjyan, Melanya Grigoryan, Svetlana Hovhannisyan, Nikolay Avtandilyan, Peter Vandamme,

Inga Bazukyan

2025 32 - 32

https://www.ysu.am/en/conference/869

Conference

Emodin inhibits HIF-1α expression in MDA-MB- 231 cells via suppression of the PI3K/Akt/mTOR pathway

S. Hovhannisyan, M. Ginovyan, N. Avtandilyan

2025 314-315

https://2025.febscongress.org/about-febs-congresses

Conference

Hypoxia-Linked Alterations in Arginine Metabolism and Oxidative Stress in the Bone Marrow during Breast Cancer Progression and Treatment

Hayarpi Javrushyan, Edita Nadiryan, Svetlana Hovhannisyan, Nikolay Avtandilyan

2025 6 - 6

https://www.ivb.ro/annual-conference-of-pathology

Conference

Hypericum alpestre Extract and L-NAME Suppress PI3K/Akt Pathway and Enhance Apoptosis in Lung and Breast Cancer Cells

Svetlana Hovhannisyan, Gayane Petrosyan, Hayarpi Javrushyan, Mikayel Ginovyan, Nikolay Avtandilyan

2025 146-146

https://journals.ysu.am/index.php/jisees/issue/view/SI_1_2025

Article

5-fluorouracil and Rumex obtusifolius extract combination trigger A549 cancer cell apoptosis: uncovering PI3K/Akt inhibition by in vitro and in silico approaches

Mikayel Ginovyan, Hayarpi Javrushyan, Svetlana Hovhannisyan, Edita Nadiryan, Gohar Sevoyan,

Tigran Harutyunyan, Smbat Gevorgyan, Zaruhi Karabekian, Alina Maloyan, Nikolay Avtandilyan

Scientific Reports 2024 1-16

Article

RABBITS ARGINASE I AND II: ACTIVITY AND pH SENSITIVITY OF SELF-FORMATION POLYPEPTIDES

S. M. HOVHANNISYAN, E. K. BARSEGHYAN, N. V. AVTANDILYAN

Proceedings of the YSU B Chemical and Biological Sciences 2024 35-43

Conference

The combination of herbs and chemotherapeutic agents inhibits tumor progression via down-

regulation of the TNFa-VEGFa/PI3K/Akt/NOS/COX-2-MMP-2 pathway in DMBA-induced breast cancer in rats
N. Avtandilyan, M. Kocharyan, S. Hovhannisyan, S. Gevorgyan, H. Javrushyan, M. Ginovyan, A. Maloyan

2024 276-276

https://2024.eacr.org/

Conference

Investigating the anticancer advantages of pairing Rumex obtusifolius herb extract with 5-fluorouracil against breast cancer in vivo
S. Hovhannisyan, M. Ginovyan, N. Avtandilyan

2024 321-322

https://2024.febscongress.org/

Article

Screening revealed the strong cytotoxic activity of Alchemilla smirnovii and Hypericum alpestre ethanol extracts on different cancer cell lines
Mikayel Ginovyan, Svetlana Hovhannisyan, Hayarpi Javrushyan, Gohar Sevoyan, Zaruhi Karabekyan,

Narine Zakaryan, Naira Sahakyan, Nikolay Avtandilyan

AIMS Biophysics 2023 12–22

Article

THE CYTOTOXIC PROPERTIES OF ALCHEMILLA SMIRNOVII EXTRACT ON THE HELA CANCER CELLS VIA DOWNREGULATION OF ARGINASE ACTIVITY
S.M. Hovhannisyan, E.E. Nadiryan, M.V. Qocharyan, G.H. Petrosyan, G.P. Sevoyan, Z.I. Karabekyan,

H.G. Javrushyan, M.M Ginovyan, N.V. Avtandilyan

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 238-247

Article

REGULATORY EFFECTS OF RUMEX OBTUSIFOLIUS AND HYPERICUM ALPESTRE EXTRACTS ON THE QUANTITY OF IL-2 IN IN VITRO AND IN VIVO CANCER MODELS
E.E. Nadiryan, S.M. Hovhannisyan, M. V. Qocharyan, G.H. Petrosyan, H.G. Javrushyan, M.M. Ginovyan,

N.V. Avtandilyan

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 248-257

Conference

Hypericum alpestre combined with arginase and NOS inhibitors shows antiproliferative activity in the rat breast cancer model
H.Javrushyan, N.Avtandilyan, S.Hovhannsiyan, M.Qocharyan, M.Ginovyan, A.Maloyan

2023 222 - 222

https://febs.onlinelibrary.wiley.com/doi/epdf/10.1002/2211-5463.13646

Article

EVALUATION OF THE ANTIOXIDANT ACTIVITY AND THEANTI-CANCER PROPERTIES OFALCHEMILLA SMIRNOVII JUZ. EXTRACTON THE HELA CANCER CELL LINE
S. Hovhannisyan, E. Nadiryan, M.Qocharyan, G. Sevoyan, M. Ginovyan, N. Avtandilyan

СТУДЕНЧЕСКАЯ ГОДИЧНАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ ЯРОССИЙСКО-АРМЯНСКИЙ УНИВЕРСИТЕТА 2022

40-46
