

# Svetlana Marat Hovhannisyan

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## Research Institute of Biology

Basic and Pathological Biochemistry Laboratory

Junior Researcher

## Education

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<b>Institution</b>	Yerevab State University
<b>Faculty</b>	Faculty of Biology, Charir of Biochemistry, Microbiology and Biotechnology
<b>Date</b>	2020 - 2022
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevab State University
<b>Faculty</b>	Faculty of Biology, Charir of Biochemistry, Microbiology and Biotechnology
<b>Date</b>	2016 - 2020
<b>Degree name</b>	Bachelor

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## Language skills

Русский Deutsch English

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## Work experience

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

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

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## Scientific interests

- Enzymology
  - Medical biochemistry
  - Cancer biochemistry
  - Toxycology
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*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 Hovhannisyanyan, Edita Nadiryan, Gohar Sevoyan, Tigran Harutyunyan, Smbat Gevorgyan, Zaruhi Karabekian, Alina Maloyan, Nikolay Avtandilyan  
Scientific Reports 2024 1-16

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*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

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*Article*

**Screening revealed the strong cytotoxic activity of Alchemilla smirnovii and Hypericum alpestre ethanol extracts on different cancer cell lines**

Mikayel Ginovyan, Svetlana Hovhannisyanyan, Hayarpi Javrushyan, Gohar Sevoyan, Zaruhi Karabekyan, Narine Zakaryan, Naira Sahakyan, Nikolay Avtandilyan  
AIMS Biophysics 2023 12-22

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*Article*

**THE CYTOTOXIC PROPERTIES OF ALCHEMILLA SMIRNOVII EXTRACT ON THE HELA CANCER CELLS VIA DOWNREGULATION OF ARGINASE ACTIVITY**

S.M. Hovhannisyanyan, 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. Թիմիա և կենսաբանություն: 2023 238-247

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*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. Hovhannisyanyan, M. V. Qocharyan, G.H. Petrosyan, H.G. Javrushyan, M.M. Ginovyan, N.V. Avtandilyan  
ԵՊՀ գիտական տեղեկագիր. Թիմիա և կենսաբանություն: 2023 248-257

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*Article*

**EVALUATION OF THE ANTIOXIDANT ACTIVITY AND THE ANTI-CANCER PROPERTIES OF ALCHEMILLA SMIRNOVII JUZ. EXTRACT ON THE HELA CANCER CELL LINE**

S. Hovhannisyanyan, E. Nadiryan, M. Qocharyan, G. Sevoyan, M. Ginovyan, N. Avtandilyan  
СТУДЕНЧЕСКАЯ ГОДИЧНАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ ЯРОССИЙСКО-АРМЯНСКИЙ УНИВЕРСИТЕТА 2022  
40-46

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*Conference*

**Hypericum alpestre combined with arginase and NOS inhibitors shows antiproliferative activity in the rat breast cancer model**

H. Javrushyan, N. Avtandilyan, S. Hovhannisyanyan, M. Qocharyan, M. Ginovyan, A. Maloyan

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*Conference*

**The combination of herbs and chemotherapeutic agents inhibits tumor progression via down-regulation of the TNF $\alpha$ -VEGF $\alpha$ /PI3K/Akt/NOS/COX-2-MMP-2 pathway in DMBA-induced breast cancer in rats**

N. Avtandilyan, M. Kocharyan, S. Hovhannisyanyan, S. Gevorgyan, H. Javrushyan, M. Ginovyan, A. Maloyan

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*Conference*

**Investigating the anticancer advantages of pairing Rumex obtusifolius herb extract with 5-fluorouracil against breast cancer in vivo**

S. Hovhannisyanyan, M. Ginovyan, N. Avtandilyan

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