

# Edita Eduard Nadiryan

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## Research Institute of Biology

Signal transduction and experimental pathology research group from  
Junior Researcher

## Education

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Chair of Biochemistry, Microbiology and Biotechnology
<b>Date</b>	2021 - 2023
<b>Degree name</b>	Masters

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Chair of Biochemistry, Microbiology and Biotechnology
<b>Date</b>	2017 - 2021
<b>Degree name</b>	Bachelor

## Language skills

Русский English

## Work experience

<b>Institution</b>	Yerevan State University, Research Institute of Biology, Laboratory of Basic and Pathological Biochemistry
<b>Period of time</b>	2024 till now
<b>Rank/degree</b>	Junior Researcher

<b>Institution</b>	Yerevan State University, Research Institute of Biology, Laboratory of Basic and Pathological Biochemistry
<b>Period of time</b>	2022 - 2024
<b>Rank/degree</b>	Senior laboratory assistant

<b>Institution</b>	Yerevan State University, Chair of Biochemistry, Microbiology and Biotechnology
<b>Period of time</b>	2021 - 2024
<b>Rank/degree</b>	Senior laboratory assistant

## Scientific interests

- Biochemistry

- Medical Biochemistry
- Cancer Biochemistry
- Biochemistry of cell signaling
- Diabetes mellitus

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## **Participation in international conferences and seminars**

**05/07/2025 -** 49th FEBS Congress

**09/07/2025** Turkey

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**29/06/2024 -** 48th FEBS Congress - 'Mining biochemistry for human health and well-being'

**03/07/2024** Italy

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**08/07/2023 -** 47th FEBS Congress, Together in bioscience for a better future

**12/07/2023** France

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**12/06/2023 -** EACR 2023 Congress: Innovative Cancer Science

**15/06/2023** Italy

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**09/07/2022 -** ,The Biochemistry Global Summit (25th IUBMB Congress, the 46th FEBS Congress

**14/07/2022** and the 15th PABMB Congress)

Portugal

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## **Publications**

### *Article*

#### **Tissue remodeling during high-altitude pulmonary edema in rats: Biochemical and histomorphological analysis**

Ruzanna A. Shushanyan, Hasmik M. Karapetyan, Edita E. Nadiryan, Nikolay V. Avtandilyan,

Anna V. Grigoryan, Anna F. Karapetyan

Tissue and Cell 2025 102727

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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 Hovhannisyan, Edita Nadiryan, Gohar Sevyan,

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

Scientific Reports 2024 1-16

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### *Article*

#### **Royal Jelly-Mediated Silver Nanoparticles Show Promising Anticancer Effect on HeLa and A549 Cells Through Modulation of the VEGFa/PI3K/Akt/MMP-2 Pathway**

Meri Kocharyan, Syuzan Marutyan, Edita Nadiryan, Mikayel Ginovyan, Hayarpi Javrushyan,

Seda Marutyan, Nikolay Avtandilyan

Applied Organometallic Chemistry 2024 1-11

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### *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. Sevyan, Z.I. Karabekyan, H.G. Javrushyan, M.M. Ginovyan, N.V. Avtandilyan

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

*Article*

**Antihyperglycemic activity of L-norvaline and L-arginine in high-fat diet and streptozotocin-treated male rats**

Hayarpi Javrushyan, Edita Nadiryan, Anna Grigoryan, Nikolay Avtandilyan, Alina Maloyan

Experimental and Molecular Pathology 2022 104763

*Article*

**EVALUATION OF THE ANTIOXIDANT ACTIVITY AND THE ANTI-CANCER PROPERTIES**

**OF ALCHEMILLA SMIRNOVII JUZ. EXTRACT ON THE HELA CANCER CELL LINE**

S. Hovhannisyan, E. Nadiryan, M.Qocharyan, G. Sevyan, M. Ginovyan, N. Avtandilyan

СТУДЕНЧЕСКАЯ ГОДИЧНАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ ЯРОССИЙСКО-АРМЯНСКИЙ УНИВЕРСИТЕТА 2022  
40-46

*Conference*

**Upregulation of nitric oxide quantity by L-norvaline and L-arginine in high-fat diet and Streptozotocin-treated male rats**

E. Nadiryan, H. Javrushyan, N. Avtandilyan, A. Maloyan

*Conference*

**Anti-inflammatory and immunostimulatory effect of Hypericum alpestre combined with arginase and NOS inhibitors in the rat breast cancer model**

H.Javrushyan, E.Nadiryan, G.Petrosyan, M.Ginovyan, A.Maloyan, N.Avtandilyan

*Conference*

**Acute brain edema associated with the elevated levels of oxidative stress mediators and TNF-alpha in rats: biochemical and immunohistochemical assessment**

R. Shushanyan, A. Grigoryan, E. Nadiryan, A. Karapetyan

*Conference*

**ANTI-CANCER PROPERTIES AND POTENTIAL MOLECULAR MECHANISMS OF COMBINATIONS OF HERBAL EXTRACTS AND CHEMOTHERAPEUTIC AGENTS**

N. Avtandilyan, H. Javrushyan, H. Karapetyan, A. Grigoryan, E. Nadiryan, G. Sevyan, M. Ginovyan, A. Maloyan

*Conference*

**Enhanced anti-inflammatory and antiproliferative effects of Inula helenium herbal extract and arginase inhibitor in breast cancer in vivo study**

E. Nadiryan, H. Javrushyan, N. Avtandilyan

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*Conference*

**Interconnection between hyperglycemia, cancer, and arginine metabolism: a unified therapeutic approach**

E.Nadiryan, H.Javrushyan, N.Avtandilyan

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*Conference*

**Phytochemicals and Chemotherapy: Present and Future Strategy**

Hayarpi Javrushyan, Edita Nadiryan, Nikolay Avtandilyan, Alina Maloyan

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*Conference*

**Modulating Bone Marrow Microenvironment in Breast Cancer: Impact of Combined Chemotherapy and Herbal Extracts**

Edita Nadiryan, Gayane Petrosyan, Nikolay Avtandilyan, Hayarpi Javrushyan

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*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

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