

Edita Eduard Nadiryan

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Research Institute of Biology

Signal transduction and experimental pathology research group from
Junior Researcher

Education

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

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

Language skills

Русский English

Work experience

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

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

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

Scientific interests

- Biochemistry

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



Participation in international conferences and seminars

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| 05/07/2025 - 09/07/2025 | 49th FEBS Congress Turkey |
| 29/06/2024 - 03/07/2024 | 48th FEBS Congress – 'Mining biochemistry for human health and well-being' Italy |
| 08/07/2023 - 12/07/2023 | 47th FEBS Congress, Together in bioscience for a better future France |
| 12/06/2023 - 15/06/2023 | EACR 2023 Congress: Innovative Cancer Science Italy |
| 09/07/2022 - 14/07/2022 | ,The Biochemistry Global Summit (25th IUBMB Congress, the 46th FEBS Congress and the 15th PABMB Congress) Portugal |



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

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

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

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. 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 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

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. Sevoyan, 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

Conference

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

E.Nadiryan, H.Javrushyan, N.Avtandilyan

Conference

Phytochemicals and Chemotherapy: Present and Future Strategy

Hayarpi Javrushyan, Edita Nadiryan, Nikolay Avtandilyan, Alina Maloyan

Conference

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

Edita Nadiryan, Gayane Petrosyan, Nikolay Avtandilyan, Hayarpi Javrushyan

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
