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Научно-исследовательский институт биологии
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Руководитель группы
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Руководитель группы
Биологический факультет
Кафедра биохимии, микробиологии и биотехнологии

Образование

Учреждение	Ереванский государственный университет
Факультет	Биология/Биохимия
Дата	2008 - 2010
Степень / Звание	Магистр

Учреждение	Ереванский государственный университет
Факультет	Биология/Биохимия
Дата	2004 - 2008
Степень / Звание	Бакалавр

Ученое звание/Ученая степень

Учреждение	Ереванский государственный университет
Дата	2014
Степень / Звание	Кандидат наук
Научный руководитель	д.б.н., профессор, М.А. Давтян
Научная тема	Влияние NO на цикл мочевины

Знание языков

English Русский

Опыт работы

Учреждение	Ереванский государственный университет
Период времени	2025 до настоящего времени

Звание/степень	руководитель научной группы

Учреждение	Ереванский государственный университет
Период времени	2023 до настоящего времени
Звание/степень	преподаватель

Учреждение	ЕГУ
Период времени	2023 - 2025
Звание/степень	научный сотрудник

Учреждение	ЕГУ
Период времени	2016 - 2022
Звание/степень	младший научный сотрудник

Научные интересы

- Молекулярная биология клетки
- Молекулярная биология
- Вопросы общей биохимии
- Биохимия
- Медицинская биохимия

Участие в международных конференциях и семинарах

31/08/2024 - 01/09/2024	Modelling immunotherapy response and toxicity in cancer” (IMMUNO-model) CA21135 Дублинский городской университет Ирландия
07/10/2024 - 12/10/2024	Неделя обучения персонала Erasmus + «Внедрение и развитие (KA 1+2)» Саарский университет Германия
05/05/2025 - 09/05/2025	Программа международной кредитной мобильности — KA171 Университет Лилля Франция
15/06/2025 - 20/06/2025	Программа международной кредитной мобильности — KA171 Университет Лазурного Берега, Ницца Франция
30/06/2025 - 03/07/2025	Жидкостные биопсии при гематологических злокачественных новообразованиях Коимбрский университет, Португалия

Португалия

05/07/2025 - 09/07/2025	Конгресс FEBS 2025 Стамбул, Турция Турция
05/10/2025 - 10/10/2025	EMBO, Практический курс по протеомике Барселона, Испания Армения
16/10/2025 - 18/10/2025	Международный саммит по иммуноонкологии 2025 Ереван, Армения Армения
11/11/2025 - 14/11/2025	Ежегодная конференция по патологии 2025 Ереван, Армения Румыния
20/05/2026 - 24/09/2026	Заключительная ежегодная конференция IMMUNO-model: «Строим мосты в моделировании иммунотерапии рака Национальный институт биологии, Любляна Словения

Членство

Учреждение	Европейская ассоциация исследований рака
Период времени	2024 до настоящего времени

Учреждение	Федерация европейских биохимических обществ
Период времени	2012 до настоящего времени

Дополнительная информация

https://www.bok.am/user/36305

Публикации

Статья

Inhibition of the PI3K signaling pathway in cancer cells by Agrimonia eupatoria L. ethanolic extract: identification of tricoumaroyl spermidine as a potential PI3K inhibitor

Mikayel Ginovyan, Smbat Gevorgyan, Hayarpi Javrushyan, Barbara Kusznierewicz,

Izabela Koss-Mikołajczyk, Naira Sahakyan, Agnieszka Bartoszek, Nikolay Avtandilyan

BMC Complementary Medicine and Therapies 2026 1-27

https://www.scopus.com/pages/publications/105029219890?origin=resultslist

Статья

Evaluating the Efficacy of Polyphenol-Enriched Plant Extracts and Pathway Modulators in the Bone Marrow to Suppress Breast Cancer Progression

Hayarpi Javrushyan, Gayane Petrosyan, Marika Mróz, Barbara Kusznierewicz, Yem Alharithi,

Mikayel Ginovyan, Alina Maloyan, Nikolay Avtandilyan

The FASEB Journal 2026 e71651 - e71651

https://doi.org/10.1096/fj.202501773rrr

Конференция

Immunomodulatory and Anti-Tumor Effects of Alchemilla smirnovii Juz in Experimental Breast Cancer Models

Aqsanna Gevorgyan, Arpine Hakobyan, Astghik Mkrtchyan, Nikolay Avtandilyan, Hayarpi Javrushyan

2026 69

https://www.immuno-model.eu/newss/immuno-model-final-conference-building-bridge...

Статья

Elucidating the impact of Hypericum alpestre extract and L-NAME on the PI3K/Akt signaling pathway in A549 lung adenocarcinoma and MDA-MB-231 triple-negative breast cancer cells

Hayarpi Javrushyan, Mikayel Ginovyan, Tigran Harutyunyan, Smbat Gevorgyan, Zaruhi Karabekian,

Alina Maloyan, Nikolay Avtandilyan

PLOS ONE 2025 e0303736

Статья

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

Конференция

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

E.Nadiryan, H.Javrushyan, N.Avtandilyan

2025 313 - 313

https://2025.febscongress.org/

Конференция

Hypericum alpestre Inhibits PI3K/Akt/mTOR and HIF-1α Signaling While Activating Caspase-3 in MDA-MB-231 Cells: A Comparative Study with Dactolisib and Doxorubicin

H. Javrushyan, N. Avtandilyan, A. Maloyan

2025 312 - 312

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Конференция

Synergistic Inhibition of HIF1α and PI3K/Akt Signaling and Activation of Caspase3 by Emodin and Metformin Combination in MDAMB231 Cells

M. Kocharyan, H. Javrushyan, N. Avtandilyan

2025 313 - 313

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Конференция

Phytochemicals and Chemotherapy: Present and Future Strategy
Hayarpi Javrushyan, Edita Nadiryan, Nikolay Avtandilyan, Alina Maloyan

2025 7 - 7

https://www.santearmenieacademy.org/en/live-events/international-summit-in-immu...

Конференция

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

Конференция

Modulating Bone Marrow Microenvironment in Breast Cancer: Impact of Combined Chemotherapy and Herbal Extracts
Edita Nadiryan, Gayane Petrosyan, Nikolay Avtandilyan, Hayarpi Javrushyan

2025 145-145

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

Конференция

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

Статья

Hypericum alpestre extract exhibits in vitro and in vivo anticancer properties by regulating the cellular antioxidant system and metabolic pathway of L-arginine
Mikayel Ginovyan, Hayarpi Javrushyan, Hasmik Karapetyan, Izabela Koss-Mikołajczyk,

Barbara Kusznierewicz, Anna Grigoryan, Alina Maloyan, Agnieszka Bartoszek, Nikolay Avtandilyan

Cell Biochemistry and Function 2024 1-21

Статья

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

Статья

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

Конференция

Adipose Tissue Dysfunction in the Offspring of Obese Mothers

Hayarpi Javrushyan, Yem J Alharithi, Nolan Gregg, Sushil Kumar, Alina Maloyan

2024 294A

https://www.sri-online.org/events/2024

Конференция

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/

Конференция

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

2024 322-322

https://2024.febscongress.org/

Статья

Anti-cancer effect of in vivo inhibition of nitric oxide synthase in a rat model of breast cancer

Nikolay Avtandilyan, Hayarpi Javrushyan, Mikayel Ginovyan, Anna Karapetyan, Armen Trchounian

Molecular and Cellular Biochemistry 2023 261-275

Статья

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

Статья

Anti-cancer effect of Rumex obtusifolius in combination with arginase/nitric oxide synthase inhibitors via downregulation of oxidative stress, inflammation, and polyamine synthesis

Mikayel Ginovyan, Hayarpi Javrushyan, Gayane Petrosyan, Barbara Kusznierewicz,

Izabela Koss-Mikołajczyk, Zuzanna Koziara, Monika Kuczyńska, Patrycja Jakubek, Anna Karapetyan,

Naira Sahakyan, Alina Maloyan, Agnieszka Bartoszek, Nikolay Avtandilyan

The International Journal of Biochemistry & Cell Biology 2023 106396

Статья

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

Статья

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

Конференция

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

Конференция

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

2023 95 - 95

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

Конференция

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

2023 353-353

https://febs.onlinelibrary.wiley.com/toc/18780261/2023/17/S1

Статья

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

Конференция

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

2022 142-142

https://2022congress.febs-iubmb-pabmb.org/

Конференция

New therapeutic approach in breast anti-cancer treatment using a combination of Rumex obtusifolius extract and L-arginine pathway inhibitors

N. Avtandilyan, H. Javrushyan, A. Karapetyan, M. Ginovyan

2022 105 - 105

https://2022congress.febs-iubmb-pabmb.org/

Конференция

Evaluation of immunostimulatory effect of combination of herbal extracts and chemotherapeutic drugs by quantitative alteration of interleukin-2

H. Javrushyan, G. Sevoyan, M. Ginovyan, Z. Karabekian, N. Avtandilyan

2022 96 - 96

https://2022congress.febs-iubmb-pabmb.org/

Статья

The effects of NO on the urea cycle pathway in short-term intermittent hypobaric hypoxia in rats

Hayarpi Javrushyan, Nikolay Avtandilyan, Armen Trchounian

Respiratory Physiology & Neurobiology 2021 103598

Статья

NEW THERAPEUTIC APPROACHES IN BREAST ANTICANCER TREATMENT USING ARMENIAN HERBAL EXTRACTS

H.G. JAVRUSHYAN, N.V. AVTANDILYAN, M.M. GINOVYAN, A.H. TRCHOUNIAN

Biological Journal of Armenia 2021 32-38

Конференция

Suppression of tumor progression by arginaseand NO-synthase combined inhibition in7,12-dimethylbenz(a)anthracene-inducedbreast cance r in rats

A. Mamikonyan, H. Javrushyan, N. Avtandilyan, A. Trchounian

2021 413

https://doi.org/10.1002/2211-5463.13205

Статья

The potential therapeutic effect of NG-hydroxy-nor-L-arginine in 7,12-dimethylbenz(a)anthracene-induced breast cancer in rats

Nikolay Avtandilyan, Hayarpi Javrushyan, Anahit Mamikonyan, Anna Grigoryan, Armen Trchounian

Experimental and Molecular Pathology 2019 1-10

Статья

NG-ՀԻԴՐՕՔՍԻ-ՆՈՐ-L-ԱՐԳԻՆԻՆԻ ՀԱԿԱՈՒՌՈՒՑՔԱՅԻՆ ԱԶԴԵՑՈՒԹՅՈՒՆԸ 7.12-ԴԻՄԵԹԻԼԲԵՆԶԱՆՏՐԱՑԵՆՈՎ ԽԹԱՆՎԱԾ ԱՌՆԵՏՆԵՐԻ ԿՐԾՔԱԳԵՂՁԻ ՔԱՂՑԿԵՂԻ ՓՈՐՁԱՐԱՐԱԿԱՆ ՄՈԴԵԼՈՒՄ

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ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2019 114-121

Конференция

Polyamines deprivation as a targeted therapy for mammary carcinoma in rats induced by 7,12-dimethylbenz[a]anthracene

H. Javrushyan, A. Mamikonyan, A. Trchounian

2019 278-279

http://2019.febscongress.org

Конференция

Effect of L-arginine catabolic enzymes inhibitors on 7,12-dimethylbenz(a)anthracene-induced mammary tumors in rats

NIKOLAY AVTANDILYAN, HAYARPI JAVRUSHYAN, ANAHIT MAMIKONYAN, ARMEN TRCHOUNIAN

2019 16-18

http://ysu.am/calendar/hy/1573127814

Статья

The Involvement of Arginase and Nitric Oxide Synthase in Breast Cancer Development: Arginase and NO Synthase as Therapeutic Targets in Cancer
Nikolay Avtandilyan, Hayarpi Javrushyan, Gayane Petrosyan, Armen Trchounian

BioMed Research International 2018 8696923,9

https://www.hindawi.com/journals/bmri/2018/8696923/

Конференция

INHIBITION OF NOS ACTIVITY AS AN EFFECTIVE ANTICANCER THERAPY AGAINST 7,12-DMBA RAT MODEL OF BREAST CANCER
Mamikonyan A., Avtandilyan N., Javrushyan H., Trchounian A.

2018 114

http://icsb.vdu.lt/

Конференция

Arginase is an enzyme with real tricks in antitumor treatment of 7,12-dimethylbenz(a) anthracene induced breast cancer in rats
G.Petrosyan, N. Avtandilyan, H. Javrushyan, A. Trchounian

2018 385-386

https://2018.febscongress.org/welcome-message

Конференция

Inhibition of breast cancer tumorigenesis by NG-Nitro-L-arginine methyl ester in rats
H. Javrushyan, A. Trchounian

2018 ID 28988

https://breastcancerres.febsevents.org/

Статья

THE CHANGE OF POLYAMINES AND NITRIC OXIDE QUANTITIES IN HUMAN BLOOD SERUM OF PROSTATE AND BLADDER CANCER
H. Javrushyan, N. Avtandilyan, A. Mamikonyan, A. Trchounian

Biological Journal of Armenia 2017 125-132

http://biology.asj-oa.am/view/year/2017.html

Конференция

The change of polyamines and NO quantities in different stages of breast and prostate cancers
H. Javrushyan, A. Trchounian

2017 257

https://2017.febscongress.org/

Статья

DIETHYLAMINE NONOate INFLUENCE ON RATS UREA CYCLE ENZYMES ACTIVITY AFTER AND BEFORE HYPOXIA
H. G. Javrushyan, M. H. Khachatryan

Electronic Journal of Natural Sciences of NAS RA 2016 15-19

http://ejns.sci.am

Статья

EFFECT OF HYPOXIA ON THE ACTIVITY OF UREA CYCLE ENZYMES
H. G. Javrushyan, M. H. Khachatryan, M.A. Davtyan

Electronic Journal of Natural Sciences of NAS RA 2014 13-16
http://ejns.sci.am

Статья

THE INFLUENCE OF NG -HYDROXY-L-ARGININE ON THE ACTIVITY OF THE UREA CYCLE ENZYMES

H. G. JAVRUSHYAN

Biological Journal of Armenia 2014 113-117
http://www.flib.sci.am/eng/Biology/