# Zhenya Vaghinak Yavroyan

**Research Institute of Biology**
Group on Biochemistry of Drug Effects
Scientific Worker

**Faculty of Biology**
Research Institute of Biology
Group on Biochemistry of Drug Effects
Scientific Worker

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## Education

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| **Institution** | Yerevan State University |
| **Faculty** | Department of Biophysics, Faculty of Biology |
| **Date** | 1971 - 1976 |
| **Degree name** | Qualified specialist |

## Scientific Rank/degree

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| **Institution** | Yerevan State University |
| **Date** | 1989 |
| **Degree name** | Candidate |
| **Scientific Supervisor** | Panosyan Garegin Harutyun, Gevorkyan Emil Sos |
| **Research Topic** | Composition and metabolism of lipids in some nuclear structures of rats liver under the hydrocortisone actioon |

## Language skills

Հայերեն Русский English

## Work experience

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| **Institution** | Department of Biophysics, Faculty of Biology, Yerevan State University |
| **Period of time** | 2008 - 2023 |
| **Rank/degree** | Associate Professor (Docent), Department of Biophysics, Faculty of Biology, Yerevan State University |

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| **Institution** | Department of Biophysics, Faculty of Biology, Yerevan State University |
| **Period of time** | 2005 - 2008 |
| **Rank/degree** | Assistant Professor, Department of Biophysics, Faculty of Biology, Yerevan State University |

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| **Institution** | Department of Biophysics, Faculty of Biology, Yerevan State University |
| **Period of time** | 2000 - 2005 |
| **Rank/degree** | Senior researcher of scientific topics of the Department of Physics (200-262; 0041; 0641) and Scientific Research Laboratory of Biophysics of Subcellular Structures. |

## Participation in international conferences and seminars

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| **19/06/2023 - 23/06/2023** | 27th Wilhelm Bernhard Workshop on the Cell Nucleus<br>Czech Republic (the) |
| **01/09/2015 - 04/09/2015** | A joint Biochemical Society/FEBS Focused Meeting. Signalling 2015: Cellular Functions of Fhosphoinositides and Inositol Phosphates.<br>United Kingdom of Great Britain and Northern Ireland (the) |
| **18/09/2016 - 21/09/2016** | 14th Euro Fed Lipid Congress<br>Belgium |
| **27/09/2016 - 30/09/2016** | 6th EUROPEAN WORKSHOP ON LIPID MEDIATORS<br>Germany |
| **18/05/2017 - 20/05/2017** | ICSB INTERNATIONAL CONFERENCE SMART BIO<br>Lithuania |
| **12/09/2018 - 14/09/2018** | 7th European Workshop on Lipid Mediators<br>Belgium |
| **11/06/2019** | Albany 2019:The 20th Conversation. Nuclear structure and dynamics<br>United States of America (the) |
| **09/01/2019 - 09/06/2019** | 2nd FEBS Advanced Lecture Course on Oncometabolism,From Conceptual Knowledge to Clinical Applications<br>Portugal |
| **29/06/2022 - 01/07/2022** | 8 th European Workshop on Lipid Mediators (8EWLM)<br>Sweden |

## Other information

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| 2008 Docent□□□□□□□□ | Highest Attestation Commission of RA |

## Publications

*Article*

**Oxidative stress level and histopathological changes in the rat brain following separate and**

**combined administration of cisplatin and dexamethasone**
Zh.V. Yavroyan, R.A. Shushanyan, A.L. Asatryan, N.R. Hakobyan, A.G. Hovhannisyan, A.V. Grigoryan,

T.A. Abgaryan, E.S. Gevorgyan, A.F. Karapetyan

Brain Research 2026 1-8

https://www.sciencedirect.com/science/article/pii/S0006899326001988?via%3Dihub

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*Conference*

**ANTIOXIDANT ENZYME CATALASE ACTIVITY OF RAT BRAIN CELLS NUCLEAR FRACTION AFTER THE CISPLATIN AND PROGESTERONE SEPARATE AND COMBINED ACTION**
Hakobyan N.R., Yavroyan Zh.V., Hovhannisyan A.G., Asatryan A.L., Gevorgyan E.S.

2026 172-173

https://www.neurosteroids.unito.it/scientific-program

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*Conference*

**Effects of extracts of rumex species and the compound emodin on oxidative stress level and antioxidant potential in liver tissue of streptozotocin-induced diabetic rats**
A. Hovhannisyan, Z. Yavroyan, N. Hakobyan, A. Asatryan, N. Avtandilyan

FEBS Open Bio 2026 S311

https://febscongress.org/

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*Article*

**Lipid peroxidation level and histological changes in rat liver after the cisplatin and dexamethasone separate and combined action**
Zhenya Yavroyan, Nune Hakobyan, Agapi Hovhannisyan, Anna Grigoryan, Anna Karapetyan,

Tamara Abgaryan, Emil Gevorgyan

Indian Journal of Biochemistry & Biophysics 2025 480-489

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*Conference*

**Alteration in Sphingomyelin: Phosphatidylcholin Ratio in Rat Liver Cells Nuclear Preparations After the Cisplatin and Estradiol Separate and Combined Exposure**
Nune Hakobyan, Zhenya Yavroyan, Agapi Hovhannisyan, Anush Asatryan, Emil Gevorgyan

2025 115-115

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

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*Conference*

**LIPID PEROXIDATION IN NUCLEAR FRACTION OF RAT THYMUS CELLS AFTER THE SEPARATE AND COMBINED TREATMENT WITH CISPLATIN AND DEXAMETHASONE**
Hovhannisyan A.G, Gevorgyan E.S, Yavroyan Zh.V, Asatryan A.L, Hakobyan N.R.

2025 22-22

https://visityerevan.am/events/details/1285/en/

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*Article*

**CISPLATIN AND DEXAMETHASONE SEPARATE AND COMBINED ACTION ON LIPID PEROXIDATION IN NUCLEAR FRACTIONS OF RAT BRAIN AND KIDNEY CELLS**
Yavroyan Zh.V., Hakobyan N.R., Hovhannisyan A.G., Gevorgyan E.S.

THE NEW ARMENIAN MEDICAL JOURNAL 2024 55-66

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*Article*

**Cisplatin and dexamethasone separate and combined effect on nephrotoxic processes in female rats.**

Zhenya Yavroyan, Anna Grigoryan, Nune Hakobyan, Agapi Hovhannisyan, Tamara Abgaryan,

Anna Karapetyan, Emil Gevorgyan

Ukrainian Journal of Nephrology and Dialysis 2024 64-74

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*Article*

**Effect of cisplatin on lipid peroxidation in the whole blood and plasma of female rats**
Yavroyan Zh.V., Hovhannisyan A.G., Hakobyan N.R., Gevorgyan E.S.

European Pharmaceutical Journal 2024 34-41

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*Conference*

**Alterations of rat brain nuclear phospholipids content under the combined action of cisplatin and progesterone**
N. Hakobyan, Z. Yavroyan, A. Hovhannisyan, E. Gevorgyan

2024 268 - 269

https://2024.febscongress.org/

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*Article*

**CISPLATIN AND PROGESTERONE SEPARATE AND JOINT ACTION ON RAT THYMUS NUCLEAR PHOSPHOLIPIDS COMPOSITION AND CONTENT**
A.G.Hovhannisyan, N.R.Hakobyan, Zh.V.Yavroyan, E.S.Gevorgyan

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 133–140

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*Article*

**Cisplatin and progesterone separate and combined action on rat brain nuclear phospholipids content**
N.R. Hakobyan, ZH.V. Yavroyan, A.G.Hovhannisyan, E.S.Gevorgyan

Prostaglandins & Other Lipid Mediators 2023 106750

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*Conference*

**The sensitivity of cholin inclusive phospholipids of rat brain cells nuclear to progesterone in vivo action.**
Hakobyan N., Hovhannisyan A., Yavroyan Z., Gevorgyan E.

2023 79 - 79

https://wbw27.wbworkshops.com/

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*Conference*

**ESTRADIOL AND CISPLATIN JOINT ACTION ON FEMALE RAT BRAIN NUCLEAR PHOSPHOLIPIDS CONTENT**
HAKOBYAN N.R., Yavroyan Zh.V., Hovhannisyan A.G., Gevorgyan E.S.

2022 79

https://workshop-lipid.eu

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*Article*

**CHANGES IN MALONDIALDEHYDE LEVELS IN FEMALE RATS BRAIN, KIDNEY AND LIVER CELLS AFTER THE SEPARATE AND JOINT ACTION OF CISPLATIN AND STEROIDS.**
ZH.V. YAVROYAN, A.G. HOVHANNISYAN,, N.R.HAKOBYAN, E.S.GEVORGYAN

Biological Journal of Armenia 2021 17-25

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*Article*

**CISPLATIN AND STEROIDS SEPARATE AND JOINT ACTION ON ANTIOXIDANT ENZYMES ACTIVITY**

**IN BRAIN TISSUE OF FEMALE RATS**
ZH.V. YAVROYAN, A.G. HOVHANNISYAN, N.R. HAKOBYAN, E.G. SARGSYAN, E.S. GEVORGYAN

Biological Journal of Armenia 2021 91-97

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*Article*

**ALTERATIONS OF RAT BRAIN CHROMATIN PHOSPHOLIPIDS CONTENT UNDER THE SEPARATE AND JOINT ACTION OF CISPLATIN AND ESTRADIOL**
ZH.V. YAVROYAN, N.R. HAKOBYAN, A.G. HOVHANNISYAN, E.G. SARGSYAN, E.S.GEVORGYAN

Biological Journal of Armenia 2020 16-23

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*Article*

**CISPLATIN AND ESTRADIOL SEPARATE AND JOINT ACTION ON PHOSPHOLIPIDS CONTENT OF CHROMATIN PREPARATION FROM RAT KIDNEY CELLS**
N.R. HAKOBYAN,, ZH.V. YAVROYAN,, A.G. HOVHANNISYAN, E.G. SARGSYAN, E.S.GEVORGYAN

Biological Journal of Armenia 2020 18-24

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*Article*

**CISPLATIN AND ESTRADIOL SEPARATE AND JOINT IN VIVO ACTION ON RAT LIVER NUCLEAR PHOSPHOLIPIDS CONTENT**
ZH.V. YAVROYAN, N.R. HAKOBYAN, A.G. HOVHANNISYAN, G.A. AVAGYAN, E.G. SARGSYAN,

E.S. GEVORGYAN
Biological Journal of Armenia 2019 39-44

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*Article*

**CISPLATIN AND ESTRADIOL SEPARATE AND JOINT ACTION ON CATALASE ACTIVITY IN LIVER AND KIDNEY TISSUES OF RATS**
Yavroyan Zhenya Vaghinak, Hovhannisyan Agapi Gevorg, Hakobyan Nune Romen, Gevorgyan Emil Sos

Евразийский Союз Учёных 2019 12-16

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*Article*

**CISPLATIN AND ESTRADIOL JOINT ACTION ON PHOSPHOLIPID COMPOSITION OF NUCLEAR FRACTION FROM FEMALE RAT BRAIN CELLS**
E.S. GEVORGYAN, Zh.V. YAVROYAN, N.R. HAKOBYAN, A.G. HOVHANNISYAN, E.G. SARGSYAN

Biological Journal of Armenia 2019 67-72

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*Conference*

**Cisplatin and Estradiol Joint Action on Quantities of Rat Brain Chromatin Phospholipids**
Nune Hakobyan, Zhenya Yavroyan, Agapi G. Hovhannisyan, Emil S. Gevorgyan

2019 1

https://www.jbsdonline.com/c4330/albany-2019-20th-conversation-abstracts-c4332…

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*Conference*

**Antioxidant Enzyme Catalase Activity of Rat Kidney Cells Nuclear Fraction After the Cisplatin and Estradiol Separate and Joint Action.**
Zhenya V.Yavroyan, Nune R. Hakobyan, Agapi G. Hovhannisyan, Emil S. Gevorgyan

2019 1

https://www.jbsdonline.com/c4330/albany-2019-20th-conversation-abstracts-c4332…

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*Conference*

**Cisplatin and estradiol separate and joint action on female**

Hakobyan NR, Yavroyan ZhV, Hovhannisyan AG, Gevorgyan ES

2019 68-69

https://oncometabolism2019.febsevents.org

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*Article*

**IN VIVO ACTION OF CISPLATIN ON LIPID CONTENT IN NUCLEAR MEMBRANES FROM RAT BRAIN CELLS**

E.S. GEVORGYAN, ZH.V. YAVROYAN, N.R. HAKOBYAN, A.G. HOVHANNISYAN, E.G. SARGSYAN

Biological Journal of Armenia 2018 16-21

http://www.flib.sci.am/eng/Biology/

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*Article*

**ALTERATIONS OF LIPID CONTENT IN RAT KIDNEY NUCLEAR MEMBRANE PREPARATIONS AFTER THE IN VIVO ACTION OF CISPLATIN**

Gevorgyan E.S., Yavroyan Zh.V., Hakobyan N.R., Hovhannisyan A.G.

Electronic Journal of Natural Sciences of NAS RA 2018 8-11

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*Article*

**CISPLATIN IN VIVO ACTION ON LIPID CONTENT IN NUCLEAR MATRIX FROM RAT BRAIN CELLS**

E.S. GEVORGYAN, ZH.V. YAVROYAN, N.R. HAKOBYAN, A.G. HOVHANNISYAN, E.G. SARGSYAN

Biological Journal of Armenia 2018 33-37

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*Conference*

**THE SENSITIVITY OF CHOLINE INCLUSIVE LIPIDS OF RAT BRAIN AND KIDNEY CHROMATIN TO CISPLATIN IN VIVO ACTION.**

HAKOBYAN N.R., Yavroyan Zh. V., Gevorgyan E.S.

2018 84

https://workshop-lipid.eu

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*Article*

**CISPLATIN IN VIVO INFLUENCE ON LIPID CONTENT OF CHROMATIN ON RAT BRAIN CELLS**

E.S.GEVORGYAN, Zh.V.YAVROYAN, N.R.HAKOBYAN, A.G.HOVHANNISYAN

Proceedings of the YSU B Chemical and Biological Sciences 2017 21-26

http://www.ysu.am/science/hy/journals

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*Article*

**CISPLATIN IN VIVO ACTION ON LIPID CONTENT IN NUCLEAR MATRIX FROM RAT KIDNEY CELLS**

E.S. GEVORGYAN, ZH.V. YAVROYAN, N.R. HAKOBYAN, A.G.HOVHANNISYAN, E.G. SARGSYAN

Biological Journal of Armenia 2017 6-11

http://www.sci.am

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*Conference*

**Alterations In Sphingomyelin:Phosphatidylcholine Ratio In Chromatin Preparations From Rat Liver And Thymus Cells After The Cisplatin In Vivo Action**

Nune Hakobyan, Zhenya Yavroyan, Emil Gevorgyan

2017 37

http://icsb.vdu.lt/

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*Conference*

**Alterations in sphingomyelin:phosphatidylcholine ratio in chromatin preparations from rat**

**liver and thymus cells after the cisplatin in vivo action**
Hakobyan N., Yavroyan Zh., Gevorgyan E.

2017 87

http://www.febsoncometabolism2017.eu/

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*Conference*

**CHANGES IN POLYPHOSPHOINOSITIDES CONTENT IN NUCLEAR FRACTION OF RAT LIVER AND THYMUS CELLS AFTER THE ACTION OF CISPLATIN**
Nune Hakobyan, Zhenya Yavroyan, Emil Gevorgyan

2017 P-052

http://meetings.embo.org/event/17-nucleu

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*Article*

**CHANGES IN SPHINGOMYELIN AND PHOSPHATIDYLCHOLINE CONTENT IN RAT LIVER NUCLEAR STRUCTURES DURING THE IN VIVO ACTION OF CISPLATIN**
E.S. GEVORGYAN, ZH.V. YAVROYAN, N.R. HAKOBYAN, A.G. HOVHANNISYAN, E.G. SARGSYAN

Biological Journal of Armenia 2016 16-19

http://www.flib.sci.am/eng/Biology/

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*Article*

**Cisplatin in vivo action on lipid content in chromatin from rat kidney cells**
GEVORGYAN E. S., YAVROYAN Zh. V., HOVHANNISYAN A. G., HAKOBYAN N. R., SARGSYAN E. G.

Biological Journal of Armenia 2016 12-18

http://www.flib.sci.am/eng/Biology/

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*Conference*

**ЧУВСТВИТЕЛЬНОСТЬ ОТДЕЛЬНЫХ ФРАКЦИЙ ФОСФОЛИПИДОВ ХРОМАТИНА К ЛЕТОК МОЗГА КРЫС К IN VIVO ВОЗДЕЙСТВИЮ ЦИСПЛАТИНА**
Акопян Н.Р., Явроян Ж.В., Оганесян А.Г., Саркисян Э.Г., Геворкян Э.С.

2016 102-103

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*Conference*

**Effect of Cisplatin on Rat Liver Nuclear Membrane Phospholipids as Integral Participants in Signal Transduction**
Hakobyan N., Hovhannisyan A. M., Yavroyan Zh., Gevorgyan E.

2016 ANLI-002

https://gdch.enterprise-ems.de/tms/frontend/index.cfm?l=6154&id=0&dat_h=&sp_id=...

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*Conference*

**ALTERATION IN CONTENT OF RAT BRAIN CHROMATIN NEUTRAL LIPIDS UNDER THE ACTION OF CISPLATIN**
HAKOBYAN N.R., HOVHANNISYAN A.G., YAVROYAN Zh. V., GEVORGYAN E.S.

2016 103

http://workshop-lipid.eu/index.php?cat=EducS

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*Conference*

**Cisplatin action on polyphosphoinositides content in rat liver and thymus nuclear membranes.**
N. Hakobyan, A. Hovhannisyan, Zh. Yavroyan, E. Gevorgyan

2015 27

*Article*

**CHANGES IN POLYPHOSPHOINOSITIDES CONTENT IN NUCLEAR MEMBRANES OF RAT LIVER AND THYMUS CELLS UNDER THE ACTION OF CISPLATIN**

E. S. GEVORGYAN, ZH. V. YAVROYAN, N. R. HAKOBYAN, A. G. HOVHANNISYAN

Biological Journal of Armenia 2014 pp.46-51

*Article*

**Cisplatin in vivo action on content of neutral lipids in rat liver and thymus nuclear membranes.**

E.S. GEVORGYAN, A.G. HOVHANISYAN, ZH.V. YAVROYAN, N.R. HAKOBYAN, E.G. SARGSYAN

Biological Journal of Armenia 2013 pp.99-103

*Article*

**In vivo action of cisplatin on content of neutral lipids in rat liver and thymus nuclear matrix.**

E.S. GEVORGYAN, A.G. HOVHANISYAN, ZH. V. YAVROYAN, N.R. HAKOBYAN,, G.B. GHUKASYAN

Biological Journal of Armenia 2013 pp.85-88

*Article*

**Content of neutral lipids in rat liver and thymus chromatin under the in vivo action of cisplatin.**

Gevorgyan E.S., Yavroyan Zh.V., Hovhanisyan A.G., Hakobyan N.R.

Biological Journal of Armenia 2012 pp.97-101

*Article*

**CISPLATIN ACTION ON PHOSPHOLIPID COMPOSITION IN NUCLEAR FRACTION OF RAT LIVER CELLS**

E.S. GEVORGYAN, ZH.V.YAVROYAN, N.R.HAKOBYAN, A.G. HOVHANNISYAN

Biological Journal of Armenia 2009 pp.20-24