

# Nune Romen Hakobyan

## Research Institute of Biology

Group on Biochemistry of Drug Effects

Researcher

☎ 37455034336  
45-24  
(060) 71-05-24

✉ nhakobyan@ysu.am



## Education

|                    |                          |
|--------------------|--------------------------|
| <b>Institution</b> | Yerevan State University |
| <b>Faculty</b>     | Biology/Biophysics       |
| <b>Date</b>        | 1991 - 1994              |
| <b>Degree name</b> | PhD student              |

|                    |                          |
|--------------------|--------------------------|
| <b>Institution</b> | Yerevan State University |
| <b>Faculty</b>     | Biology/Biophysics       |
| <b>Date</b>        | 1987 - 1991              |
| <b>Degree name</b> | Qualified specialist     |

## Scientific Rank/degree

|                              |                                                                                    |
|------------------------------|------------------------------------------------------------------------------------|
| <b>Institution</b>           | Yerevan State University                                                           |
| <b>Date</b>                  | 1998                                                                               |
| <b>Degree name</b>           | Candidate                                                                          |
| <b>Specialty</b>             | Biological sciences                                                                |
| <b>Scientific Supervisor</b> | Gevorgyan Emil                                                                     |
| <b>Research Topic</b>        | “Estradiol Action on Composition of Brain Subcellular Structures Pospoinositides.” |

## Language skills

Русский English

## Work experience

|                       |                          |
|-----------------------|--------------------------|
| <b>Institution</b>    | Yerevan State University |
| <b>Period of time</b> | 1994 till now            |
| <b>Rank/degree</b>    | Researcher               |

## Scientific interests

- Molecular Biology
- Biophysics

- Biochemistry
- Genetics



## Participation in international conferences and seminars

|                                    |                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>23/06/2023</b>                  | 27th Wilhelm Bernhard Workshop on the Cell Nucleus<br>Czech Republic (the)                                    |
| <b>03/11/2023 -<br/>05/11/2023</b> | 194th Meeting of the Society for Endocrinology,<br>United Kingdom of Great Britain and Northern Ireland (the) |
| <b>20/09/2023 -<br/>24/09/2023</b> | ELSO 2023 Conference.<br>Germany                                                                              |
| <b>20/06/2023 -<br/>25/06/2023</b> | FEBS Advanced Course on “Lipid Signalling and Membrane Traffic”,<br>Italy                                     |
| <b>21/06/2025 -<br/>24/06/2025</b> | FEBS WORKSHOP-DIJON 2025, on “Recent Advances in Lipid Metabolism and<br>Related Disorders”,<br>France        |
| <b>18/10/2025 -<br/>21/10/2025</b> | International Alumni seminar on “Biotechnology and Health”,<br>Armenia                                        |
| <b>21/09/2026 -<br/>24/09/2026</b> | FEBS/EMBO Workshop, 15th Protein Kinase Meeting “Spatial and Temporal<br>Regulation of Signalling”.<br>Norway |
| <b>24/10/2026 -<br/>26/10/2026</b> | FEBS Meeting on “New concepts in Lipidology: from lipidomics to disease”.<br>Netherlands (the)                |
| <b>10/04/2027 -<br/>20/04/2027</b> | NATO ASI on “Evolution from Cellular to Social Scales” .<br>Norway                                            |
| <b>30/08/2028 -<br/>02/09/2028</b> | “Frontiers of Cellular, Developmental and Molecular Biology” .<br>France                                      |
| <b>04/07/2029 -<br/>09/07/2029</b> | 34th FEBS Congress “Life`s Molecular Interactions”.<br>Czech Republic (the)                                   |
| <b>16/06/2029 -<br/>20/06/2029</b> | Albany 2029, Conversation 16.<br>United States of America (the)                                               |
| <b>23/03/2029 -<br/>02/04/2029</b> | ASI on “Order, Robustness and Instabilities in Complex Systems” .<br>Norway                                   |

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|------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>17/03/2010 -<br/>19/03/2010</b> | ISCO 2010 Congress “Cellular Oncology- New Insights Leadings to Clinical Advancement”.<br>Germany                  |
| <b>04/09/2010 -<br/>07/09/2010</b> | EMBO meeting 2010..<br>Spain                                                                                       |
| <b>30/08/2014 -<br/>04/09/2014</b> | FEBS Congress 2014.<br>France                                                                                      |
| <b>01/09/2015 -<br/>04/09/2015</b> | A joint Biochemical Society/FEBS Focused Meeting.<br>United Kingdom of Great Britain and Northern Ireland (the)    |
| <b>27/09/2016 -<br/>30/09/2016</b> | 6th European Workshop on Lipid Mediators.<br>Germany                                                               |
| <b>18/06/2017 -<br/>24/06/2017</b> | ONCOMETABOLISM. From Conceptual Knowledge to Clinical Applications.<br>Portugal                                    |
| <b>04/10/2017 -<br/>08/10/2017</b> | EMBO Conference on “Nuclear Structure and Dynamics”.<br>France                                                     |
| <b>12/09/2018 -<br/>14/09/2018</b> | 7th European Workshop on Lipid Mediators.<br>Belgium                                                               |
| <b>01/09/2019 -<br/>06/09/2019</b> | 2nd FEBS Advanced Lecture Course on Oncometabolism,From Conceptual Knowledge to Clinical Applications.<br>Portugal |
| <b>11/06/2019 -<br/>15/06/2019</b> | Albany 2019: The 20th Conversation.<br>United States of America (the)                                              |
| <b>29/06/2022 -<br/>01/07/2022</b> | 8.th European Workshop on Lipid Mediators.<br>Karolinska Institute<br>Sweden                                       |

## Membership

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| <b>Institution</b>    | European Association for Cancer Research (EACR) |
| <b>Period of time</b> | 2025 till now                                   |
| <b>Institution</b>    | „Armenian Association of Biochemists,,          |
| <b>Period of time</b> | 2003 till now                                   |

## Other information

Education: 1987 - 1991- Qualification: biophysics, teacher, Diploma of Excellence.

## Publications

### 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

### 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.

New Armenian Medical journal 2024 55-66

### 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

### 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

### 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

### 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 and Other Lipid Mediators 2023 106750

### 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

Հայաստանի կենսաբանական հանդես 2021 17-25

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

Հայաստանի կենսաբանական հանդես 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

Հայաստանի կենսաբանական հանդես 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

Հայաստանի կենսաբանական հանդես 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, Hovhannisyanyan 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

Հայաստանի կենսաբանական հանդես 2019 67-72

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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

Հայաստանի կենսաբանական հանդես 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., Hovhannisyanyan 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

Հայաստանի կենսաբանական հանդես 2018 33-37

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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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*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

Հայաստանի կենսաբանական հանդես 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.

Հայաստանի կենսաբանական հանդես 2016 12-18

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

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*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

Հայաստանի կենսաբանական հանդես 2014 pp.46-51

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*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

Հայաստանի կենսաբանական հանդես 2013 pp.85-88

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*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

Հայաստանի կենսաբանական հանդես 2013 pp.99-103

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*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.

Հայաստանի կենսաբանական հանդես 2012 pp.97-101

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*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

Հայաստանի կենսաբանական հանդես 2009 pp.20-24

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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.

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*Conference*

**Effect of Cisplatin on Rat Liver Nuclear Membrane Phospholipids as Integral Participants in Signal Transduction**

Hakobyan N., Hovhannisyanyan A. M., Yavroyan Zh., Gevorgyan E.

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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.

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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

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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.

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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

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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.

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*Conference*

**Cisplatin and Estradiol Joint Action on Quantities of Rat Brain Chromatin Phospholipids**

Nune Hakobyan, Zhenya Yavroyan, Agapi G. Hovhannisyanyan, Emil S. Gevorgyan

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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

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*Conference*

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

Hakobyan NR, Yavroyan ZhV, Hovhannisyan AG, Gevorgyan ES

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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.

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*Patent*

**Device for non-invasive determination of glucose concentration in human organism**

Margaryan H., Hakobyan N., Hovhannisyan D., Aroutiounian V., Tabirian N., Rohatgi U., Abrahamyan V., Sargsyan T., Movsisyan A., Gasparyan P.

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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.

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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

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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

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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.

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