Nelli Hrant Karapetyan

Կոնդենսացված վիճակի ֆիզիկայի կենտրոն
Մակրոմոլեկուլների ֆիզիկայի լաբորատորիա
Senior Researcher
Research Institute of Physics
Կոնդենսացված վիճակի ֆիզիկայի կենտրոն
Մակրոմոլեկուլների ֆիզիկայի լաբորատորիա
Senior Researcher
Institute of Physics
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Education

Institution	Yerevan State University
Faculty	Faculty of Biology
Date	1976 - 1981
Degree name	Masters

Scientific Rank/degree

Institution	Yerevan State University
Date	2009
Degree name	Associate professor

Institution	Yerevan State University
Date	1989
Degree name	Candidate
Scientific Supervisor	Nazaryan K. B.
Research Topic	Physicochemical, catalytic and immunological properties of brain enolase isoenzymes.

Language skills

Հայերեն Русский English

Work experience

Institution	YSU
Period of time	1993 till now

Rank/degree	Senior Researcher

Publications

Article

THERMODYNAMICS OF THE ORDER-DISORDER TRANSITION IN THE DOUBLE-HELICAL STRUCTURE OF DNA IN THE PRESENCE OF CoTAllPyP4 [Термодинамика перехода порядок–беспорядок в двуспиральной структуре ДНК в присутствии CoTAllPyP4]
G. V. Ananyan, P. H. Vardevanyan, N. H. Karapetyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2026 127–131

https://link.springer.com/article/10.1134/S106833722670026X

Article

INFLUENCE OF CATIONIC PORPHYRINS ON CISPLATIN-MODIFIED DNA
G. V. Ananyan, Ye. B. Dalyan, L. R. Aloyan, A. A. Avetisyan, N. H. Karapetyan

Proceedings of the YSU B Chemical and Biological Sciences 2025 43–56

Article

Physical Properties of Water and Aqueous DNA Solutions under the Influence of Non-Thermal Electromagnetic Waves of the Millimeter Range [Физические свойства воды и водных растворов ДНК под воздействием нетепловых электромагнитных волн миллиметрового ди...
V. P. Kalantaryan, R. S. Ghazaryan, N. H. Karapetyan, G. V. Ananyan, M. L. Movsisyan, Yu. S. Babayan

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Article

Influence of Cu L-Histidinate Schiff Base Derivatives on Structural Features of Irradiated Rat's DNA
Nelli H. Karapetyan, Samvel G. Haroutiunian, Gayane V. Ananyan

Cell Biochemistry and Biophysics 2024 2557–2565

Article

Binding Parameters of CuTAllPyP4 and CoTAllPyP4 Porphyrins to DNA Using Adsorption Isotherms [Параметры связывания CuTAllPyP4 и CoTAllPyP4 порфиринов с ДНК по изотермам адсорбции]
G. V. Ananyan, N. H. Karapetyan, Y. B. Dalyan, R. S. Ghazaryan, S. G. Haroutiunian

Proceedings of NAS RA Physics 2024 347-352

Article

ANTICANCER EFFECT OF AgTOEPyP4 PORPHYRIN
N. H. KARAPETYAN, G. V. ANANYAN, S. G. HAROUTIUNIAN

ԵՊՀ գիտական տեղեկագիր. Քիմիա և կենսաբանություն: 2023 41–53

Article

Interaction of MnTOEtPyP4 porphyrin with DNA
Gayane V. Ananyan, Yeva B. Dalyan, Nelli H. Karapetyan, Vigen G. Barkhudaryan, Ani A. Avetisyan

Journal of Biomolecular Structure and Dynamics 2023 7290-7296

Conference

Effect of Nanoparticles on Erythrocyte Membranes at Irradiation
N.H. Karapetyan, G.V. Ananyan, R.S. Ghazaryan, T.M. Jomardyan, V.G. Barkhudaryan, V. Kalantaryan

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Article

FLAP Collaboration: Tasks and Perspectives.Study of Fundamentals and New Applicationsof Controllable Generation of Electromagnetic Radiationby Relativistic Electrons Using Functional Materials
L. Aloyan, A. Avetisyan, Y. Dalyan, L. Grigoryan, N. Karapetyan, V. Kocharyan, A. Mkrtchyan,

A. Movsisyan, A. Saharian, A. Shahbazyan, A. Baldin, 37

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Article

The structural features of poly(dG-dC).poly(dG-dC) at complexation with some porphyrins
Gayane V. Ananyan, Nelli H. Karapetyan, Yeva B. Dalyan

Journal of Biomolecular Structure and Dynamics 2021 1-6

Article

Molecular Transformations in DNA under the Influence of UV-radiation
Vigen G. Barkhudaryan, Gayane V. Ananyan, Nelli H. Karapetyan

Current Applied Polymer Science 2020 1-7

Article

pH-dependent complex formation of Zn-mesotetra(4-N-hydroxyethylpyridyl) porphyrin with cancer DNA
Nelli H. Karapetyan, Gayane V. Ananyan, Yeva B. Dalyan

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Article

DNA PROTECTION FROM RADIATION DAMAGE
N. H. KARAPETYAN

Proceedings of the YSU B Chemical and Biological Sciences 2019 86-90

Conference

Molecular alterations in DNA under UV-irradiation
Gayane V. Ananyan, Nelli H. Karapetyan, Vigen G. Barkhudaryan

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Peculiarities of melting DNA from Crocker’s sarcoma of a mouse treated with Ag-meso-tetra(4-N-hydroxyethylpyridyl) porphyrin in the presence of Mn2+ ions
Nelli H. Karapetyan, Gayane V. Ananyan, Yeva B. Dalyan

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Gayane V.Ananyan, Nelli H. Karapetyan, Yeva B. Dalyan

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Article

ПЛАВЛЕНИЕ ДНК ОПУХОЛЕНОСЯЩИХ КРЫС, ЛЕЧЕНЫХ мезо-ТЕТРА(4-N-ГИДРОКСИЭТИЛПИРИДИЛ)ПОРФИРИНОМ И ЕГО Ag-, Zn-, Co-ПРОИЗВОДНЫМИ

Н.Г. Карапетян, Г.В. Ананян, Е.Б. Далян, С.Г. Арутюнян

Биофизика (Biophysics) 2017 458–463

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DEVELOPMENT OF POTENTIAL RADIOPROTECTIVE AGENTS FOR USE IN FIELD EXPOSURE SITUATIONS

N. Karapetyan, M. Malakyan, A. Dallakyan, S. Bajinyan, V.Tonoyan, V.Ayvazyan

2017 22

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Article

Investigation of irradiated rats DNA in the presence of Cu(II) chelates of amino acids Schiff bases

N.H. Karapetyan, A.L. Torosyan, M. Malakyan, S.A. Bajinyan, S.G. Haroutiunian

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http://www.tandfonline.com/action/journalInformation?journalCode=tbsd20#.V25anP...

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Лечение опухоленосящих крыс мезо-тетра(4N-гидроксиэтилпиридил) порфиринами H2TOEtPyP4 и AgTOEtPyP4

Карапетян Н.Г., Ананян Г.В, Далян Е.Б, Арутюнян С. Г.

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The features of complexformation of poly(dI-dC) 2 with porphyrins

Gayane V. Ananyan, Nelli H. Karapetyan, Samvel G. Haroutiunian, Yeva B. Dalyan

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Influence of Amino Acids Shiff Bases on Irradiated DNA Stability In Vivo

N. H. Karapetyan, A. L. Torosyan, S. G. Haroutiunian, M. H. Malakyan, S. A. Bajinyan, I. E. Grigoryan

Cell Biochemistry and Biophysics 2013 1137-1145

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DNA damage and anti-tumor activity induced by Zn, Ag and Co containing meso- tetra(4-N-oxyethylpyridyl)porphyrins in vivo

Nelli H. Karapetyan, Lusya V. Torosyan, Gayane V. Ananyan, Rafael E. Muradyan

Journal of Porphyrins and Phthalocyanines 2010 pp. 349-353
