

## Publications

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### ANTICANCER EFFECT OF AgТОЕРуР4 PORPHYRIN

N. H. KARAPETYAN, G. V. ANANYAN, S. G. HAROUTIUNIAN

ԵՊՀ գիտական տեղեկագիր. Զիմիա և կենսաբանություն: 2023 41-53

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### Structural Transitions in Complementary G-Rich and C-Rich Strands and Their Mixture at Various pH Conditions

Yeva B. Dalyan, Ishkhan V. Vardanyan, Samvel G. Haroutiunian, Milena Kh. Badalyan

ACS Omega 2023 47051-47056

Статья

### НОВАЯ МОДЕЛЬ РЕЙТИНГОВОГО ФИНАНСИРОВАНИЯ НАУЧНЫХ ОРГАНИЗАЦИЙ АРМЕНИИ

Շ. Ա. Տարգսյան, Թ. Ս. Արությունյան, Վ. Ա. Տաակյան, Ս. Գ. Արությունյան

Библиосфера 2019 85-92

Статья

### ПЛАВЛЕНИЕ ДНК ОПУХОЛЕНОСЯЩИХ КРЫС, ЛЕЧЕННЫХ 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

[http://elibrary.ru/title\\_about.asp?id=7680](http://elibrary.ru/title_about.asp?id=7680)

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### Dose-rate effect of ultrashort electron beam radiation on DNA damage and repair in vitro

Nelly Babayan, Galina Hovhannisyanyan, Bagrat Grigoryan, Ruzanna Grigoryan, Natalia Sarkisyan,

Gohar Tsakanova, Samvel Haroutiunian, Rouben Aroutiounian

Journal of Radiation Research 2017 894-897

<https://academic.oup.com/jrr>

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### Two-photon microscopy imaging of oxidative stress in human living erythrocytes.

GOHAR TSAKANOVA, ELINA ARAKELOVA, VIOLETTA AYVAZYAN, ANNA AYVAZYAN, STEPAN TATIKYAN,

ROUBEN AROUTIUNIAN, YEVA DALYAN, SAMVEL HAROUTIUNIAN, VASIL TSAKANOV, ARSEN ARAKELYAN

BIOMEDICAL OPTICS EXPRESS 2017 5834-5846

Статья

### 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

Journal of Biomolecular Structure and Dynamics 2016 177-183

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

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**AREAL low energy electron beam applications in life and materials sciences.**

V.M. Tsakanov, R.M.Aroutiounian, G.A.Amatuni, L.R.Aloyan, L.G.Aslanyan, V.Sh. Avagyan, N.S.Babayan, V.V.Buniatyan, Y.B.Dalyan, H.D.Davtyan, M.V. Derdzyan, B.A.Grigoryan, N.E.Grigoryan, L.S.Hakobyan, S.G.Haroutyunian, V.V. Harutiunyan, K.L.Hovhannesian, V.G.Khachatryan, N.W.Martirosyan, G.S. Melikyan, A.G.Petrosyan, V.H.Petrosyan, A.A.Sahakyan, V.V.Sahakyan, A.A.Sargsyan, A.S.Simonyan, S.Sh.Tatikyan, G.V.Tsakanova, E.Tsovyan, A.S.Vardanyan, V.V.Vardanyan, A.S.Yeremyan, H.N.Yeritsyan, G.S.Zanyan

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment  
2016 248-253

<http://www.journals.elsevier.com/nuclear-instruments-and-methods-in-physics-res...>

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**Development of viscometric methods for studying the interaction of various porphyrins with DNA. Part I: meso-tetra-(4N-hydroxyethylpyridyl) orphyrin and its Ni-, Cu-, Co- and Zn-containing derivatives**

V.G. Barkhudaryan, G.V. Ananyan, Y.B. Dalyan, S.G. Harutunyan

Journal of Porphyrins and Phthalocyanines 2014 594-599

<http://www.worldscientific.com/worldscinet/jpp>

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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

<http://link.springer.com/journal/12013>

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**EVALUATION OF ERRORS IN DETERMINATION OF DNA MELTING CURVE REGISTERED WITH DIFFERENTIAL SCANNING CALORIMETRY**

D.Y. LANDO, I.E. GRIGORYAN, A.S. FRIDMAN, E.N. GALYUK, Y.B. DALYAN, S.G. HAROUTIUNIAN

Հայաստանի կենսաբանական հանդես 2013 6-12

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**COMPARATIVE ANALYSIS OF THE EFFECTS OF PLATINUM COMPOUNDS ON THERMOSTABILITY OF DNA**

I. E. GRIGORYAN, Ye. B. DALYAN, S. G. HAROUTIUNIAN

Proceedings of the YSU. Physical and Mathematical Sciences 2011 52-57

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**Влияние малых концентраций cis-DDP на адсорбцию лигандов на ДНК**

В. Б. Аракелян, С. Г. Арутюнян, Г. С. Саркисян, П. О. Вардеванян

Հայաստանի կենսաբանական հանդես 2008 175-182

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**The Pseudo-ring structures formation in DNA complexes with covalently binding ligands**

S. G. Haroutiunyan, Sh. A. Sargsyan, A. P. Antonyan

Հայաստանի կենսաբանական հանդես 2008 162-166

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**Microcalorimetric Investigation of DNA, poly(dA)poly(dT) and poly[d(A-C)]poly[d(G-T)] Melting in the Presence of Water Soluble (Meso tetra (4 N oxyethylpyridyl) Porphyrin) and its Zn Complex**

J. Monaselidze, Majagaladze, Sh. Barbakadze, D. Khachidze, M. Gorgoshidze, Y. Kalandadze, S. Haroutiunian, Y. Dalyan, V. Vardanyan

Journal of Biomolecular Structure and Dynamics 2008 419-424

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**Compensation of DNA Stabilization and Destabilization Effects Caused by Cisplatin is Partially Disturbed in Alkaline Medium**

Elena N. Galyuk, Alexander S. Fridman, Vladimir I. Vorobev, Samvel G. Haroutiunian, Shushanik A. Sargsyan, Maryna M. Hauruk, Dmitri Y. Lando

Journal of Biomolecular Structure and Dynamics 2008 407-417

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**In vitro testing of cyto- and genotoxicity of new porphyrin water-soluble metal derivatives**

Gennadi Gasparyan, Galina Hovhannisyan, Robert Ghazaryan, Lida Sahakyan, Artak Tovmasyan, Rusanna Grigoryan, Natalia Sarkissyan, Samvel Haroutiunian, Rouben Aroutiounian

International Journal of Toxicology 2007 497-502

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Конференция

**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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**Лечение опухоленосщих крыс мезо-тетра(4N-гидроксиэтилпиридил) порфиринами H<sub>2</sub>TOEtPyP<sub>4</sub> и AgTOEtPyP<sub>4</sub>**

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

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**Genetic effects: DNA radiation damage and repair**

R. Aroutiounian, G. Hovhannisyan, B. Grigoryan, G. Tsakanova, S. Haroutiunian, T. Harutyunyan, N. Babayan

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Конференция

**The influence of CuTOEPyP<sub>4</sub> porphyrin on DNA damage induced by high energy electron beam radiation.**

L. R. Aloyan, Y. B. Dalyan, S.G Haroutiunian

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L.R. Aloyan, Y.B. Dalyan, S.G. Haroutiunian

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**INFLUENCE OF CATION PORPHYRINES ON DNA DAMAGE DURING ELECTRON BEAM IRRADIATION**

L.R. Aloyan, Y.B. Dalyan, S.G Haroutiunian

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