

## Publications

*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*

### **ANTICANCER EFFECT OF AgTQEPyP4 PORPHYRIN**

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

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

*Article*

### **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

*Article*

### **НОВАЯ МОДЕЛЬ РЕЙТИНГОВОГО ФИНАНСИРОВАНИЯ НАУЧНЫХ ОРГАНИЗАЦИЙ АРМЕНИИ**

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

Библиосфера 2019 85-92

*Article*

### **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)

*Article*

### **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>

*Article*

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

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

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

BIOMEDICAL OPTICS EXPRESS 2017 5834-5846

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

Journal of Biomolecular Structure and Dynamics 2016 177-183

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

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Article

**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. Derdzian, B.A. Grigoryan, N.E. Grigoryan, L.S. Hakobyan,

S.G. Haroutiunian, 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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Article

**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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Article

**Influence of Amino Acids Schiff 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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Article

**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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Article

**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 A. Physical and Mathematical Sciences 2011 52-57

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Article

**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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Article

**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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Article

**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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Article

**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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Article

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

Gennadi Gasparyan, Galina Hovhannisyanyan, 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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Conference

**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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Conference

**Лечение опухоленосящих 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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Conference

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

R. Aroutiounian, G. Hovhannisyanyan, B. Grigoryan, G. Tsakanova, S. Haroutiunian, T. Harutyunyan,

N. Babayan

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Conference

**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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Conference

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

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

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*Conference*

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

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

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