

Galina Georgiy Hovhannisyan

✉ galinahovhannisyan@ysu.am



Faculty of Biology
Chair of Genetics and Cytology
Professor

Education

Institution	YSU
Faculty	Faculty of Biology
Date	1978 - 1983
Degree name	Qualified specialist

Scientific Rank/degree

Institution	YSU
Date	2013
Degree name	Doctor
Specialty	Biological sciences
Research Topic	Localization of DNA and chromosomal damage in human cells

Institution	YSU
Date	1990
Degree name	Candidate
Specialty	Biological sciences
Scientific Supervisor	Rouben Aroutiounian
Research Topic	The study of anticlastogens under the action of chemical mutagens in the cells of allergic patients and healthy donors

Language skills

Հայերեն Русский English

Work experience

Institution	YSU, Faculty of Biology
Period of time	2020 till now
Rank/degree	Professor

Scientific interests

- genetic toxicology, molecular cytogenetics, environmental genetics, mutagenesis, antimutagenesis

Membership

Institution	YSU Faculty of Biology Scientific Council
Period of time	2019 till now

Institution	042 Specialized Council at Institute of Molecular Biology of the National Academy of Sciences of the Republic of Armenia on Biochemistry
Period of time	2022 till now

Institution	051 Specialized Council at YSU on Biophysics
Period of time	2019 till now

State awards and honorary titles

2019 YSU Gold Medal

Publications

Article

Changes in Telomere Length in Leukocytes and Leukemic Cells after Ultrashort Electron Beam Radiation

Tigran Harutyunyan, Anzhela Sargsyan, Lily Kalashyan, Hovhannes Igityan, Bagrat Grigoryan, Hakob Davtyan, Rouben Aroutiounian, Thomas Liehr, Galina Hovhannisyan
International Journal of Molecular Sciences 2024 6709

Article

CELL-FREE MITOCHONDRIAL DNA IN DOXORUBICIN-TREATED KCL22 AND K562 CELL LINES

Tigran A. Harutyunyan, Anzhela A. Sargsyan, Lily A. Kalashyan, Hovhannes A. Igityan, Rouben M. Aroutiounian, Galina G. Hovhannisyan
Proceedings of the YSU B: Chemical and Biological Sciences 2024 9-16

Article

DNA Damage in Moderate and Severe COVID-19 Cases: Relation to Demographic, Clinical, and Laboratory Parameters

Tigran Harutyunyan, Anzhela Sargsyan, Lily Kalashyan, Naira Stepanyan, Rouben Aroutiounian, Thomas Liehr, Galina Hovhannisyan
International Journal of Molecular Sciences 2024 10293

Article

EVALUATION OF GENOTOXIC EFFECTS IN COVID-19 PATIENTS AS A POTENTIAL MARKER OF VIRUS-HOST ADAPTATION

Tigran Harutyunyan, Anzhela Sargsyan, Nara Stepanyan, Galina Hovhannisyan, Rouben Aroutiounian

Article

The Diagnostic, Prognostic, and Therapeutic Potential of Cell-Free DNA with a Special Focus on COVID-19 and Other Viral Infections

Galina Hovhannisyanyan, Tigran Harutyunyan, Rouben Aroutiounian, Thomas Liehr

International Journal of Molecular Sciences 2023 14163

Article

Application of land snail *Helix lucorum* for evaluation of genotoxicity of soil pollution

Anzhela Sargsyan, Galina Hovhannisyanyan, Anna Simonyan, Marine Arakelyan, Meri Arzumanyan,

Rouben Aroutiounian

MUTATION RESEARCH - GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS 2022 503500

Manual

Cytogenomics: Approaches for studying epigenetic aspects of the human genome

Harutyunyan Tigran, Hovhannisyanyan Galina

2021 54

Article

IDENTIFICATION OF CYTOGENETICALLY VISIBLE mtDNA IN INTERPHASE NUCLEI OF HUMAN BLOOD LYMPHOCYTES EXPOSED TO DOXORUBICIN

T. A. HARUTYUNYAN, G. G. HOVHANNISYAN, A. A. SARGSYAN, T. LIEHR, A. AL-RIKABI,

R. M. AROUTIOUNIAN

Proceedings of the YSU B: Chemical and Biological Sciences 2020 63-67

Article

Doxorubicin-induced translocation of mtDNA into the nuclear genome of human lymphocytes detected using a molecular-cytogenetic approach

Tigran Harutyunyan, Ahmed Al-Rikabi, Anzhela Sargsyan, Galina Hovhannisyanyan, Rouben Aroutiounian,

Thomas Liehr

International Journal of Molecular Sciences 2020 1-11

Manual

Մարդու գենետիկայի հիմունքները

Լիբ Թոմաս, Հարությունյան Տիգրան, Հովհաննիսյան Գալինա

2020 170

Article

Analysis of copy number variations induced by ultrashort electron beam radiation in human leukocytes in vitro

Tigran Harutyunyan, Galina Hovhannisyanyan, Anzhela Sargsyan, Bagrat Grigoryan, Ahmed H. Al-Rikabi,

Anja Weise, Thomas Liehr, Rouben Aroutiounian

Molecular Cytogenetics 2019 18 (1-6)

Article

Application of the comet assay, micronucleus test and global DNA methylation analysis in *Darevskia* lizards as a sentinel organism for genotoxic monitoring of soil pollution

Article

DNA Copy Number Variations as Markers of Mutagenic Impact

Hovhannisyana Galina, Harutyunyan Tigran, Aroutiounian Rouben, Liehr Thomas

International Journal of Molecular Sciences 2019 1-19

Article

DNA damage and micronuclei in parthenogenetic and bisexual Darevskia rock lizards from the areas with different levels of soil pollution

Anna Simonyan, Galina Hovhannisyana, Anzhela Sargsyan, Marine Arakelyan, Seyran Minasyan,

Rouben Aroutiounian

Ecotoxicology and Environmental Safety 2018 13-18

Article

Gender differences in DNA damage/repair after laser-generated ultrafast electron beam irradiation

Babayan N, Grigoryan B, Hovhannisyana G, Tadevosyan G, Khondkaryan L, Grigoryan R, Sarkisyan N,

Aroutiounian R

International Journal of Radiology & Radiation Therapy 2018 85-86

Article

Micronuclei and what they can tell us in cytogenetic diagnostics

Hovhannisyana Galina, Harutyunyan Tigran, Aroutiounian Rouben

Current Genetic Medicine Reports 2018 144-154

Article

Application of Crayfish *Astacus leptodactylus* for the Analysis of Water Genotoxicity in the Lake Sevan Basin

A. E. Simonyan, A. A. Sargsyan, G. G. Hovhannisyana, N. S. Badalyan, S. H. Minasyan

JOURNAL OF WATER CHEMISTRY AND TECHNOLOGY 2018 367-369

Article

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

Nelly Babayan, Galina Hovhannisyana, 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

ԲԵՏԱՅԻՆԻ ՀԱԿԱՍՈՒՏԱԳԵԼԱՅԻՆ ՀԱՏԿՈՒԹՅՈՒՆՆԵՐԻ ԳԼԱՀԱՏՈՒՄԸ KCL - 22 ԲԶԻԶՆԵՐՈՒՄ ԴՆԹ - ԿՈՍԵՏ ՍԵԹՈՂՈՎ

Անժելա Սարգսյան, Աննա Սիմոնյան, Գալինա Հովհաննիսյան

ԵՊՀ ՌԻԳԸ գիտական հոդվածների ժողովածու 2017 137-141

Manual

Fluorescence in situ Hybridization (FISH) - Application Guide.PART V. INTERPHASE FISH. Comet-FISH

Hovhannisyán G, Aroutiounian R

2017 6

Manual

Micronucleus FISH, Fluorescence In Situ Hybridization (FISH) Application Guide, Second Edition

Galina Hovhannisyán, Tigran Harutyunyan, Thomas Liehr

2017 379-383

Article

Comparative analysis of individual chromosome involvement in micronuclei induced by mitomycin C and bleomycin in human leukocytes.

Hovhannisyán G, Aroutiounian R, Babayan N, Harutyunyan T, Liehr T

Molecular Cytogenetics 2016 7

<https://molecularcytogenetics.biomedcentral.com/>

Article

Genotoxicity of Water Contaminants from the Basin of Lake Sevan, Armenia Evaluated by the Comet Assay in Gibel Carp (*Carassius auratus gibelio*) and Tradescantia Bioassays

Simonyan A, Gabrielyan B, Minasyan S, Hovhannisyán G, Aroutiounian R

Bulletin of Environmental Contamination and Toxicology 2016 309-313

<http://www.springer.com/environment/pollution+and+remediation/journal/128>

Article

"Կենսաբանություն" առարկայից սովորողների գիտելիքների ընթացիկ գնահատման տեսակները Ա.Ֆ.Կարապետյան, Գ.Գ. Հովհաննիսյան, Ի.Վ. Շահազիզյան

Բնագետ 2016 31-39

Article

Cell viability and DNA damage in MRC5 and HeLa cell lines after histone H1 knockout by CRISPR-Cas9 genome editing technology

Hovhannisyán G, Aroutiounian R, Harutyunyan T, Babayan N

Proceedings of the YSU B: Chemical and Biological Sciences 2016 64-66

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

Manual

Գենետիկական թունաբանության հիմունքներ

Հովհաննիսյան Գալինա

2016 72

Article

Influence of aflatoxin B1 on copy number variants in human leukocytes in vitro.

Harutyunyan T, Hovhannisyán G, Babayan N, Othman MA, Liehr T, Aroutiounian R

Molecular Cytogenetics 2015 25; 5

<https://molecularcytogenetics.biomedcentral.com/>

Article

A New Case of a Complex Small Supernumerary Marker Chromosome: A Der(9)t(7;9)(p22;q22) due to a Maternal Balanced Rearrangement.

Manvelyan M., Simonyan I., Hovhannisyán G., Aroutiounian R., Hamid A.B., Liehr Th.

Article

Combined Genotoxic Effects of Aflatoxin B1, Ochratoxin A and Zearalenone in Rat Bone Marrow and Blood Leukocytes

Harutyunyan Tigran, Karapetyan Anna, Hovhannisyan Galina, Aroutiounian Rouben

Korean Journal of Environmental Biology 2013 189-191

<http://www.ebr.or.kr/AboutUs/01.php>

Article

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

Conference

DETECTION OF GENOTOXIC AND CLASTOGENIC EFFECTS OF SOILS POLLUTION IN ARMENIA WITH APPLICATION OF TRADESCANTIA (CLONE 02) TEST SYSTEM

Atoyants A.L., Aghajanyan E.A., Avalyan R.E., Hovhanisyan G.G., Aroutiounian R.M.

Conference

ЭКОГЕНОТОКСИКОЛОГИЧЕСКОЕ ИССЛЕДОВАНИЕ БАСЕЙНА ОЗЕРА СЕВАН С ПРИМЕНЕНИЕМ РЕЧНЫХ РАКОВ (ASTACUS LEPTODACTYLUS) И ТРАДЕСКАНЦИИ

А.Э. Симонян, Г.Г. Оганесян, Б.К. Габриелян, С.Г. МИНАСЯН, Т.А. Арутюнян, А.Л. Геворкян,

Р.М. Арутюнян

Conference

Изучение мутагенеза методами молекулярной цитогенетики.

Арутюнян Р.М., Арутюнян Т.А., Симонян А.Э., Оганесян Г.Г.

Conference

Ecogenetic studies in Armenia.

Aroutiounian R.M., Hovhannisyan G.G., Simonyan A.E.

Conference

PROTECTIVE EFFECTS OF SCHIFF BASE CYCLIC AMINO ACID DERIVATIVES AGAINST MYCOTOXINS GENO- AND CYTOTOXICITY

Tigran HARUTYUNYAN, Galina HOVHANNISYAN, Nelli BABAYAN, Thomas LIEHR, Arsen ARAKELYAN,

Rouben AROUTIOUNIAN, Margarita MALAKYAN

Conference

Genetic effects: DNA radiation damage and repair

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

N. Babayan

Conference

Genetic damage in bioindicator organisms and heavy metal content in ecogenotoxic studies

Rouben Aroutiounian, Galina Hovhannisyan, Anna Simonyan

Conference

The genotoxic and cytotoxic effects of ochratoxin a and t-2 toxin in rats bone marrow and blood cells

Harutyunyan Tigran, Hovhannisyan Galina, Babayan Nelli, Arakelyan Arsen, Aroutiounian Rouben

Conference

Оценка повреждений и репарации ДНК при облучении сверхкороткими импульсами ускоренных электронов.

Арутюнян Р.М., Оганесян Г.Г., Григорян Б.А., Цаканова Г.В., Арутюнян С.Г., Арутюнян Т.А.,
Бабаян Н.С.

Conference

Кинетика репарации ДНК и эпигенетические изменения при облучении сверхкороткими импульсами ускоренных электронов

Арутюнян Р.М., Оганесян Г.Г., Григорян Б.А., Арутюнян Т.А., Бабаян Н.С.

Conference

Assessment of aquatic genotoxicity of the Lake Sevan basin, Armenia using natural bioindicators

Anzhela Sargsyan, Anna Simonyan, Galina Hovhannisyan, Bardukh Gabrielyan, Rouben Aroutiounian

Conference

APPLICATION OF BIOINDICATORS FOR ASSESSMENT OF HEAVY METALS' GENETIC AND EPIGENETIC EFFECTS IN DIFFERENT REGIONS OF ARMENIA

Sargsyan A, Hovhannisyan G., Simonyan A., Arakelyan M., Minasyan S., Aroutiounian R.

Conference

DOXORUBICIN-INDUCED MTDNA INSERTIONS IN NUCLEAR GENOME OF HUMAN LYMPHOCYTES

Aroutiounian R, Hovhannisyan G, Sargsyan A, Al-Rikabi A, Liehr T, Harutyunyan T

Conference

Genetic effects of ultrashort pulsed electron beam irradiation - 7 years of joint experience

Rouben Aroutiounian, Tigran Harutyunyan, Andrian Osipov, Natalya Vorobyeva, Galina Hovhannisyan,
Anzhela Sargsyan, Bagrat Grigoryan, Samvel Haroutiounian, Thomas Liehr, Nelly Babayan

Conference

**ԳԵՆԵՏԻԿԱԿԱՆ ԱՆԿԱՅՈՒՆՈՒԹՅԱՆ ԿԵՆՍԱՍԱՐԿԵՐՆԵՐԻ ԿԻՐԱՌՈՒՄԸ ՄԻՋԻՆ ԵՎ ԾԱՆՐ ԸՆԹԱՑՔՈՎ
COVID-19 ՀԻՎԱՆԴՆԵՐԻ ԽՍՐԵՐՈՒՄ**

Հարությունյան Ռ., Հովհաննիսյան Գ., Սարգսյան Ա., Ստեփանյան Ն., Ղուկասյան Լ., Առաքելյան Ա.,
Հարությունյան Տ.

Conference

GENOTOXICOLOGICAL AND MOLECULAR-GENETIC RESEARCH OF CORONAVIRUS IN ARMENIA

Tigran Harutyunyan, Anzhela Sargsyan, Nara Stepanyan, Galina Hovhannisyan, Lilit Ghoukasyan,
Arsen Arakelyan, Rouben Aroutiounian
