

Anzhela Ashot Sargsyan

Faculty of Biology

Chair of Genetics and Cytology

Senior laboratory assistant

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Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Genetics and Cytology
Date	2016 - 2020
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Genetics and Cytology
Date	2014 - 2016
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Biology
Date	2010 - 2014
Degree name	Bachelor

Language skills

Հայերեն English Русский

Work experience

Institution	Yerevan State University, Faculty of Biology, Research Institute of Biology, Group of Genomic Instability and Molecular Mutagenesis
Period of time	2025 till now
Rank/degree	Researcher

Institution	Yerevan State University, Faculty of Biology, Research Institute of Biology, Laboratory of General and Molecular Genetics
Period of time	2024 - 2025
Rank/degree	Specialist of Laboratory

Institution	Yerevan State University, Faculty of Biology, Department of Genetics and Cytology
Period of time	2021 till now
Rank/degree	Lecturer

Institution	Yerevan State University, Faculty of Biology, Department of Genetics and Cytology
Period of time	2020 - 2023
Rank/degree	Head of Educational Laboratory

Institution	Yerevan State University, Faculty of Biology, Department of Genetics and Cytology
Period of time	2016 till now
Rank/degree	Senior Specialist of Laboratory

Scientific interests

- Genetics
 - Cell Biology
 - Molecular cytogenetics
 - Mutagenesis
 - Ecogenotoxicology
 - Genotoxicology and cytotoxicology
 - Epigenetics
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Participation in international conferences and seminars

01/07/2024 - 04/07/2024	Third evolution-complexity conference: The Evolution of complexity and statistical physics A. Alikhanyan National Science Laboratory Armenia
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25/06/2023 - 30/06/2023	72nd Lindau Nobel Laureate Meeting Council for the Lindau Nobel Laureate Meetings Germany
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27/03/2023 - 28/03/2023	Armenian meeting – 2023. Climate changes: adaptation A. Alikhanyan National Science Laboratory Armenia
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04/07/2022 - 08/07/2022	The 3rd International Workshop on “Ultrafast Beams and Applications” "CANDLE" synchrotron research institute Armenia
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05/10/2021 - 10/10/2021	Fifth International Conference, Dedicated to N. W. Timofeeff-Ressovsky and His Scientific School “Modern Problems of Genetics, Radiobiology, Radioecology, and Evolution” Nor Amberd International Conference Centre of the Yerevan Physics Institute Armenia
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09/03/2021 - 11/03/2021	1st DNAQUA International Conference COST Action DNAqua-Net, Online
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Germany

**11/04/2016 -
16/04/2016** "Nobel days in Yerevan: Be inspired and create"
Yerevan State Medical University after Mkhitar Heratsi
Armenia

**23/06/2015 -
26/06/2015** III International Scientific Conference of Young Researchers
"Armbiotechnology" Scientific and Production Center of NAS RA
Armenia

**16/06/2015 -
17/06/2015** "Science from the first hands. Epigenetic" Young scientist school
Yerevan State University
Armenia

**07/11/2022 -
05/12/2022** Business trip, Invited researcher
Institute of Human Genetics
Germany

**01/10/2019 -
10/11/2019** Business trip, Invited researcher
Institute of Human Genetics
Germany

**09/03/2018 -
08/05/2018** Business trip, Invited researcher
Institute of Human Genetics
Germany

**01/09/2017 -
30/11/2017** Business trip, Invited researcher
Institute of Human Genetics
Germany

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

ARMENIAN MEETING Climate Changes: Adaptation Yerevan, March 27-28, 2023 ABSTRACTS PAPERS BY YOUNG SCIENTISTS
2023 8-10

*Article***Increase in the Level of Doxorubicin-Induced DNA Damage in HeLa Cells with CRISPR/Cas9 Mediated HIST1H1B Gene Knockout**

E. T. Kuchukyan, A. A. Sargsyan, T. A. Harutyunyan

Physics of Particles and Nuclei Letters 2022 287-288

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

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

Rouben Aroutiounian

MUTATION RESEARCH - GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS 2022 503500

*Article***Increased Yield of Residual γ H2AX Foci in p53-Deficient Human Lung Carcinoma Cells Exposed to Subpicosecond Beams of Accelerated Electrons**

N. Yu. Vorobyeva, N. S. Babayan, B. A. Grigoryan, A. A. Sargsyan, L. G. Khondkaryan, L. S. Apresyan,

A. K. Chigasova, E. I. Yashkina, D. V. Guryev, S. M. Rodneva, A. A. Tsishnatti, Yu. A. Fedotov,

R. M. Arutyunyan, A. N. Osipov

БЮЛЛЕТЕНЬ ЭКСПЕРИМЕНТАЛЬНОЙ БИОЛОГИИ И МЕДИЦИНЫ (BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE)
2022 760-763

*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 Hovhannisyan, Rouben Aroutiounian,

Thomas Liehr

International Journal of Molecular Sciences 2020 1-11

Article

Оценка повреждений ДНК с применением метода ДНК-комет в двух природных популяциях дождевых червей *Lumbricus terrestris*

A. A. Саргсян

Доклады НАН РА 2020 206-213

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

Anzhela Sargsyan, Anna Simonyan, Galina Hovhannisyanyan, Marine Arakelyan, Rouben Aroutiounian

MUTATION RESEARCH - GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS 2019 117-124

Article

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

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

Rouben Aroutiounian

Ecotoxicology and Environmental Safety 2018 13-18

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. Hovhannisyanyan, N. S. Badalyan, S. H. Minasyan

JOURNAL OF WATER CHEMISTRY AND TECHNOLOGY 2018 367-369

Article

ԲԵՏԱՅԻՆԻ ՀԱՎԱՍՈՒՄԱԳԵՆԱՅԻՆ ՀԱՏԿՈՒԹՅՈՒՆՆԵՐԻ ԳՆԱՀԱՏՈՒՄԸ KCL - 22 ԲԶԻՉՆԵՐՈՒՄ ԴՆԹ - ԿՈՄԵՏ ՄԵԹՈՂՈՎ

Անժելա Սարգսյան, Աննա Սիմոնյան, Գալինա Հովհաննիսյան

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2017 137-141

Article

АНАЛИЗ ПОВРЕЖДЕНИЙ ДНК У ЯЩЕРИЦ *DAREVSKIA RADDEI*, ОБИТАЮЩИХ В ЗОНАХ С РАЗЛИЧНЫМ УРОВНЕМ ЗАГРЯЗНЕНИЯ ПОЧВ, МЕТОДОМ ДНК-КОМЕТ

А.Э. СИМОНЯН, А.Л. ГЕВОРКЯН, С.Г. МИНАСЯН, А.А. САРГСЯН, М.С. АРАКЕЛЯН

Հայաստանի կենսաբանական հանդես 2015 65-67

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

Conference

Photodynamic activity and structure/activity relationship of new porphyrins in vitro as potential photosensitizers for application in photodynamic therapy of cancer

Angela A. Sargsyan, Sona V. Galstyan, Elen A. Hakobyan, Diana H. Vardanyan, Areg Galstyan,

Lusine H. Khondkaryan, Nelli S. Babayan

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, Andrean 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., Դուկասյան 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
