

# Ani Aleqsandr Harutyunyan

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## Research Institute of Biology

Laboratory of Microbiology, Bioenergetics and Biotechnology

Junior Researcher

## Education

<b>Institution</b>	Russian-Armenian (Slavonic) University
<b>Faculty</b>	Medical Biochemistry
<b>Date</b>	2015 - 2021
<b>Degree name</b>	Qualified specialist

## Work experience

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2021 till now
<b>Rank/degree</b>	Senior laboratory assistant

<b>Institution</b>	Russian-Armenian (Slavonic) University
<b>Period of time</b>	2018 - 2020
<b>Rank/degree</b>	Junior scientific researcher

## Publications

*Article*

### **A novel approach for synthesizing silver nanoparticles with antibacterial and cytotoxic activities using the leaf extract of hydroponically grown *Moringa oleifera***

Anush Aghajanyan, Marina Timotina, Tatevik Manutsyan, Ani Harutyunyan, Mikayel Ginovyan, Robin Schubert, Sofiya Aydinyan, Karen Trchounian, Lilit Gabrielyan, Liana Gabrielyan

Scientific Reports 2025 1-18

*Article*

### **Silver nanoparticles fabricated using phycocyanin from *Arthrospira platensis*: green synthesis, physicochemical characterization, and biological activities**

Ani Harutyunyan, Astghik Hambardzumyan, Liana Gabrielyan, Anush Aghajanyan, Meri Kocharyan, Nikolay Avtandilyan, Alina Zurnachyan, Inga Bazukyan, Wojciech Kujawski, Lilit Gabrielyan

Microbial Cell Factories 2025 1-23

*Article*

### **Comparative Study of Physicochemical Properties and Antibacterial Potential of Cyanobacteria *Spirulina platensis*-Derived and Chemically Synthesized Silver Nanoparticles**

Ani Harutyunyan, Liana Gabrielyan, Anush Aghajanyan, Susanna Gevorgyan, Robin Schubert, Christian Betzel, Wojciech Kujawski, Lilit Gabrielyan

*Article*

**THE EFFECT OF EXTREMELY HIGH-FREQUENCY ELECTROMAGNETIC RADIATION ON THE BIOMASS YIELD AND PHOTOSYNTHETIC PIGMENT CONTENT IN CYANOBACTERIA ARTHROSPIRA PLATENSIS**

Harutyunyan A.A., Manoyan J.G., Hambaryan L.R., Gabrielyan L.S.

SCIENTIFIC PROCEEDINGS OF THE IXth INTERNATIONAL CONGRESS «LOW AND SUPER-LOW FIELDS AND RADIATION IN BIOLOGY AND MEDICINE»  
2024 98-99

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*Article*

**EFFECT OF VARIOUS CARBON SOURCES ON THE GROWTH PROPERTIES AND MORPHOLOGY OF SPIRULINA PLATENSIS**

A. A. HARUTYUNYAN, J. G. MANOYAN, L. R. HAMBARYAN, L. S. GABRIELIAN

Proceedings of the YSU B: Chemical and Biological Sciences 2023 164-171

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*Conference*

**Effect of various carbon sources on the growth properties and photosynthetic pigments content of *Spirulina platensis***

A. Harutyunyan, L. Hambaryan, L. Gabrielyan

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*Conference*

**THE PHYSICOCHEMICAL AND ANTIMICROBIAL PROPERTIES OF SILVER NANOPARTICLES SYNTHESIZED BY *Spirulina* BIOMASS**

Harutyunyan A., Manoyan J., Gevorgyan S., Gabrielyan L., Aghajanyan A., Gabrielyan L.

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*Conference*

**The antibacterial potential of *Spirulina platensis*-mediated green synthesized silver nanoparticles**

L. Gabrielyan, A. Harutyunyan, A. Aghajanyan, L. Gabrielyan

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*Conference*

**The effect of silver nanoparticles synthesized using *Spirulina* biomass on the hydrogen yield and FoF1-ATPase activity in *Escherichia coli*.**

A. Harutyunyan, D. Hakobyan, A. Aghajanyan, L. Gabrielyan

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*Conference*

**SPIRULINA-ի ԿԵՆՍԱԶԱՆԳՎԱԾԻՑ ԱՐԾԱԹԻ ՆԱՆՈՄԱՍՆԻԿԼԵՐԻ ՍԻՆԹԵԶԸ ԵՎ ԴՐԱՆՑ ՀԱԿԱՐԱԿՏԵՐԻԱԿԱՆ ԱԿՏԻՎՈՒԹՅՈՒՆԸ**

Հարությունյան Ա.Ա., Մանոյան Ջ.Գ., Աղաջանյան Ա.Ա., Գաբրիելյան Լ.Ս., Գաբրիելյան Լ.Ս.

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*Conference*

**Membranous mechanisms of antibacterial action of *Spirulina*-derived silver nanoparticles on kanamycin-resistant *Escherichia coli***

A. Harutyunyan, D. Hakobyan, A. Aghajanyan, L. Gabrielyan

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*Conference*

**Antibacterial, hemolytic and anticancer activities of silver nanoparticles biosynthesized by phycocyanin extracted from *Spirulina***

*Conference*

**RELATIONSHIP BETWEEN SPIRULINA PLATENSIS GROWTH AND MP (MICROPLASTIC) PARTICLES BIOFILM FORMATION IN VITRO CONDITONS**

Lusine Hambaryan, Ani Harutyunyan, Diana Hakobyan, Tigran Yesayan, Małgorzata Poniewozik

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*Conference*

**Նոր մոտեցումներ միկրոջրիմուռների կենսազանգվածից կենսաբանական ակտիվությամբ օժտված արծաթի նանոմասնիկների սինթեզի համար**

Հարությունյան Ա.Ա., Մանոյան Ջ.Գ., Աղաջանյան Ա.Ա., Գաբրիելյան Լ.Ս., Գաբրիելյան Լ.Ս.

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*Conference*

**Comparative Analysis of Antibacterial Properties of Silver Nanoparticles Synthesized Using “Green Biomass” of Phototrophic Organisms**

Lilit Gabrielyan, Ani Harutyunyan, Anush Aghajanyan, Liana Gabrielyan, Wojciech Kujawski

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*Conference*

**“Green synthesis” of Silver Nanoparticles with Antimicrobial Activity Using Biomass of Microalgae**

Lilit Gabrielyan, Anna Harutyunyan, Jemma Manoyan, Anush Aghajanyan, Liana Gabrielyan

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*Conference*

**Green synthesis of silver nanoparticles mediated by phycocyanin from *Arthrospira platensis***

Harutyunyan A., Hambardzumyan A., Aghajanyan A., Gabrielyan L., Gabrielyan L.

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*Conference*

**Comparative Investigation of the Effect of Electromagnetic Radiation at Frequencies of 51.8 and 53 GHz on *Arthrospira platensis* and *Parachlorella kessleri***

Ani Harutyunyan, Jemma Manoyan, Lusine Hambaryan, Lilit Gabrielyan

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