

# Ani Karen Hayrapetyan

## Research Institute of Biology

Applied Ecology and Environmental Research Laboratory (AEER- Lab)  
Junior Researcher

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## 🎓 Education

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology
<b>Date</b>	2021 - 2023
<b>Degree name</b>	Masters

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology
<b>Date</b>	2017 - 2021
<b>Degree name</b>	Bachelor

## 🌐 Language skills

Հայերեն Русский English

## 📅 Work experience

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2024 till now
<b>Rank/degree</b>	Junior Researcher

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2023 - 2024
<b>Rank/degree</b>	senior laboratory assistant

<b>Institution</b>	"ARARAT" FOOD FACTORY
<b>Period of time</b>	2021 - 2021
<b>Rank/degree</b>	laboratory assistant

## 🔬 Scientific interests

- Botany,
- Conservation of biodiversity,
- Mycology
- Ecology

- Medical mycology
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## Publications

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*Article*

### **Sustainable Management of Saline Soils: Insights into Organic Amendments for Enhancing Soil Health and Crop Resilience**

Abhishek Singh, Armine Chakhmakhchyan, Nare Darbinyan, Sakshi Singh, Ani Hayrapetyan, Rupesh Kumar Singh, João Ricardo Sousa, Derdzian Tatevik, Hrant Khachatryan, Karen Ghazaryan  
Biogeosystem Technique 2025 36-47

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*Article*

### **Nanoshields: harnessing biogenic nanomaterials to combat the adverse effects of heavy metal stress**

Simran Choudhury, Nishi Patel, Shreni Agrawal, Indrani Bhattacharya, Abhishek Singh, Armine Chakhmakhchyan, Ani Hayrapetyan, Rupesh Kumar Singh, Francisco Roberto Quiroz-Figueroa, João Ricardo Sousa, Henrique Trindade, Mohamed S. Elshikh, Arunava Pradhan, Priyadarshani Rajput, Karen Ghazaryan  
Biogenic Nanoparticles Interplay with Climate Change and Implications for Human Health 2025 323-344

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*Article*

### **Carnivorous fungi application for pesticide-free vegetable cultivation**

Alexander Yesayan, Tigran Yesayan, Bella Babayan, Syuzanna Esoyan, Ani Hayrapetyan, Garegin Sevoyan, Armine Chakhmakhchyan, Siranush Nanagulyan, Marina Melkumyan  
Functional Food Science 2024 325-336

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*Article*

### **Traditional vegetarian food products in villages of Syunik, Armenia: Technogenic contamination risks assessment**

Garegin G. Sevoyan, Karen A. Ghazaryan, Tigran A. Yesayan, Ani K. Hayrapetyan, Seyran H. Minasyan, Bella G. Babayan, Ivan G. Gabrielyan, Syuzanna S. Esoyan, Armine D. Chakhmakhchyan, Anna M. Grigoryan, Marina A. Melkumyan, Alexander H. Yesayan  
Functional Food Science 2024 380-389

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*Article*

### **Impact of ceramic packaging on the quality and safety of Armenian fermented dairy product Matsoun**

Syuzanna S. Esoyan, Ani K. Hayrapetyan, Tigran A. Yesayan, Armine E. Sargsyan, Armine D. Chakhmakhchyan, Bella G. Babayan, Garegin G. Sevoyan, Aleksandr H. Yesayan  
Functional Food Science 2024 370-379

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*Article*

### **The preliminary study of antifungal and antibacterial properties of wine by-products**

Ani K. Hayrapetyan, Tigran A. Yesayan, Armine D. Chakhmakhchyan, Bella G. Babayan, Garegin G. Sevoyan, Alexander H. Yesayan, Syuzanna S. Esoyan  
Bioactive Compounds in Health and Disease 2024 570-580

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*Article*

**Sustainable methods for producing food-derived bioactive compounds**

Aram R. Mikaelyan, Samvel A. Bagdasaryan, Alexander H. Yesayan, Tigran A. Yesayan,

Ani K. Hayrapetyan, Bella G. Babayan, Marina A. Melkumyan, Vardan Sargsyan

Bioactive Compounds in Health and Disease 2024 525-535

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*Conference*

**Carnivorous Fungi: Innovative Safe Alternative Against The Agricultural Worm Pests**

A. H. Yesayan, T. A. Yesayan, B. G. Babayan, G. G. Sevoyan, S. S. Esoyan, A. K. Hayrapetyan,

A. D. Chakhmakhchyan

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*Conference*

**CARNIVOROUS FUNGI APPLICATION PERSPECTIVES FOR PESTICIDE- FREE VEGETABLES CULTIVATION**

Alexander Yesayan, Tigran Yesayan, Bella Babayan, Syuzanna Esoyan, Ani Hayrapetyan,

Garegin Sevoyan, Armine Chakhmakhchyan, Siranush Nanagulyan, Marina Melkumyan

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*Conference*

**Impact of Different Methods Priming on Germination of Different Genotypes of Wheat (*Triticum Aestivum L.*) Under Salinity Stress**

Nare Darbinyan, Armine Chakhmakhchyan, Ani Hayrapetyan, Abhishek Singh, Sakshi Singh,

Karen Ghazaryan

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*Conference*

**Nanoparticle-Mediated Alleviation of Copper Heavy Metal Stress in Armenian Barley (*Hordeum vulgare L.*) Genotypes to Enhance Germination and Seedling Growth Traits**

Ani Hayrapetyan, Abhishek Singh, Armine Chakhmakhchyan, Nare Darbinyan, Sakshi Singh,

Karen Ghazaryan

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