Armine David Chakhmakhchyan

a.chakhmakhchyan@ysu.am

Research Institute of Biology
Applied Ecology and Environmental Research Laboratory (AEER- Lab)
Senior laboratory assistant

Faculty of Biology
Research Institute of Biology
Applied Ecology and Environmental Research Laboratory (AEER- Lab)
Senior laboratory assistant

Faculty of Biology
Chair of Ecology and Nature Conservation
Senior laboratory assistant

Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry
Date	1993 - 1998
Degree name	Masters

Language skills

Русский English

Work experience

Institution	Yerevan State University
Period of time	2022 till now
Rank/degree	senior laboratory assistant

Publications

Article

A Combined Approaches of Biochar and ZnO Nanoparticle-Based Nanopriming for Enhancement of Wheat (Triticum aestivum L.) Seed Germination Indices Under Salinity Stress
Armine Chakhmakhchyan, Nare Darbinyan, Abhishek Singh, Karen Ghazaryan

Journal of Innovative Solutions for Eco-Environmental Sustainability 2026 1-12

https://doi.org/10.46991/jisees.2026.02.1.14078

Article

Effect of Nanoparticles on Germination and Seedling Tolerance Traits of Armenian Genotypes

of Wheat (Triticum aestivum L.) Under Salinity Stress
Armine David Chakhmakhchyan, Abhishek Singh, Nare Darbinyan, Sakshi Singh, Karen Ghazaryan

Biological Science and Innovation for Achieving the Sustainable Development Goals 2026 85 - 102

https://doi.org/10.4018/979-8-3373-1524-9.ch005

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, Derdzyan Tatevik, Hrant Khachatryan, Karen Ghazaryan

Biogeosystem Technique 2025 36-47

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,

Joa˜o 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

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

2025 56 - 56

https://www.ysu.am/en/conference/869

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

2025 53 - 53

https://www.ysu.am/en/conference/869

Conference

Effect of Nanoparticles on Germination and Seedling Tolerance Traits of Armenian Genotypes of Wheat (Triticum Aestivum L.) Under Salinity Stress
Armine Chakhmakhchyan, Abhishek Singh, Nare Darbinyan, Sakshi Singh, Karen Ghazaryan

2025 54 - 54

https://www.ysu.am/en/conference/869

Article

Impact of nano-enzyme and nanomics for sustainable agriculture: Current status and future prospective
Shivangi Singh, Omkar Singh, Sakshi Singh, Abhishek Singh, Vishnu D. Rajput, Karen Ghazaryan,

Vaishali Singh, Athanasios Alexiou, Abdel Rahman Mohammad Said Al-Tawaha, Aleksandr Yesayan,

Armine David Chakhmakhchyan, Hassan El-Ramady

Harnessing NanoOmics and Nanozymes for Sustainable Agriculture 2024 1-18

Article

Revolutionizing sustainable agriculture with nano-priming technology: A leap towards resilient and high-yield crops

Divya Pandey, Abhishek Singh, Nare Darbinyan, Armine David Chakhmakhchyan, Shipra Singh Parmar, Karen Ghazaryan

Nanotechnology Applications and Innovations for Improved Soil Health 2024 305-315

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

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

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

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 - Online ISSN 2574-0334 Print ISSN 2769-2426 2024 570-580

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

2024 1

https://ace.aua.am/projects/summit-on-the-future-of-lake-sevan/

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