

Anahit Hambardzum Shirvanyan

☎ 48-85

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Research Institute of Biology

Մանրէաբանության, կենսաէներգետիկայի և կենսատեխնոլոգիայի
լաբորատորիա
Junior Researcher

Education

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry, Microbiology and Biotechnology
Date	2020 - 2023
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry, Microbiology and Biotechnology
Date	2018 - 2020
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Biology, Department of Biochemistry, Microbiology and Biotechnology
Date	2014 - 2018
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2024
Degree name	Candidate
Specialty	Biological sciences
Scientific Supervisor	Թռչունյան Կարեն Արմենի
Research Topic	The action mechanisms of stress factors on some yeast growth parameters and antioxidant enzymes activity.

Language skills

Հայերեն Русский English

Work experience

Institution	Yerevan State University
Period of time	2023 till now

Rank/degree	Researcher at 23LCG-1F003 “The role of global regulators and transcriptional activators in the regulation of metabolic and bioenergetic parameters of microorganisms under conditions of fermentation and respiration” research grant
Institution	Laboratory of Microbiology, Bioenergetics and Biotechnology of YSU Research Institute of Biology
Period of time	2023 till now
Rank/degree	Junior researcher
Institution	Yerevan State University
Period of time	2021 - 2023
Rank/degree	Researcher at 21AG-4D027 “The potential of plant origin compounds in the development of food and feed preservatives and new biologically active additives” research grant
Institution	Department of Biochemistry, Microbiology and Biotechnology of Faculty of Biology, YSU
Period of time	2019 - 2023
Rank/degree	Senior laboratory assistant
Institution	Norapat secondary school
Period of time	2018 - 2019
Rank/degree	Teacher of Biology



Scientific interests

- Biochemistry
- Microbiology
- Biotechnology



Participation in international conferences and seminars

22/08/2022 - 23/09/2022	Scientific expedition in framework of 21AG-4D027 research grant Gdansk University of Technology Poland
09/07/2022 - 14/07/2022	The Global Biochemistry summit Portugal
01/04/2019 - 19/07/2019	Erasmus+ Research program University of Saarland Germany

Membership

Institution Armenian Microbiological Association (FEMS constituent society)

Period of time 2023 - 2023

Institution Armenian Biochemical Association (FEBS founding society)

Period of time 2021 - 2023

Institution OSA YSU and NAS RA student chapter

Period of time 2020 - 2021

Institution ArMicro ASM Student Chapter

Period of time 2019 - 2023

Institution Union of Biologists of Armenia

Period of time 2016 - 2023

Institution YSU Student Scientific Society

Period of time 2014 - 2020

Publications

Article

EVALUATION OF ETHANOL AND BIOMASS PRODUCTION RATE BY DIFFERENT SACCHAROMYCES CEREVISIAE STRAINS DEPENDING ON EXTERNAL pH AND TEMPERATURE

Anahit H. Shirvanyan

Proceedings of the YSU B: Chemical and Biological Sciences 2023 141-153

Article

The Action Mechanisms, Anti-Cancer and Antibiotic-Modulation Potential of Vaccinium myrtillus L. Extract

Mikayel Ginovyan, Anush Babayan, Anahit Shirvanyan, Alvard Minasyan, Meri Qocharyan,

Barbara Kusznierevicz, Izabela Koss-Mikołajczyk, Nikolay Avtandilyan, Anne Vejux, Agnieszka Bartoszek,

Naira Sahakyan

Discovery Medicine 2023 590-611

Article

Relationship between proton/ potassium fluxes and central carbon catabolic pathways in different Saccharomyces cerevisiae strains under osmotic stress conditions

Anahit Shirvanyan, Satenik Mirzoyan, Karen Trchounian

Process Biochemistry 2023 309-318

Article

CHEMICAL COMPOSITION AND ANTIBACTERIAL ACTIVITY OF ESSENTIAL OIL OF MENTHA ARVENSIS L. HARVESTED AT HIGH ALTITUDE ARMENIAN FLORA

S. K. TADEVOSYAN, A. H. SHIRVANYAN, A. A. MARKOSIAN, M. T. PETROSYAN, N. Zh. SAHAKYAN
Proceedings of the YSU B: Chemical and Biological Sciences 2023 230-237

Article

PECULIARITIES OF GROWTH PARAMETERS OF SACCHAROMYCES CEREVISIAE UNDER DIFFERENT CONDITIONS

Anahit H. Shirvanyan, Satenik N. Mirzoyan, Karen A. Trchounian

Proceedings of the YSU B: Chemical and Biological Sciences 2021 255-265

Article

Changes of ATPase activity and lipid peroxidation in conditions of long-term hypokinesia

Shirvanyan A. A., Karapetyan H. M., Trchounian A. H.

Հայաստանի կենսաբանական հանդես 2020 80-84

Conference

The effect of hydrogen peroxide-induced oxidative stress on catalase activity in yeast *Sacharomyces cerevisiae*

Shirvanyan A.H, Karapetyan H.M.

Conference

Potassium and proton ions transport during glucose fermentation in *Saccharomyces cerevisiae* under glycerol-induced osmotic stress at different pHs

A. Shirvanyan, S. Mirzoyan, K. Trchounian

Conference

Antimicrobial and antioxidant potential of some plant crude extract

Margarit Petrosyan, Alvard Minasyan, Anahit Shirvanyan, Anush Babayan, Mikayel Ginovyan,

Naira Sahakyan

Conference

Prospects for the use of *Ficus carica* L. leave extract as bio-preservative agent

Anahit Shirvanyan, Alvard Minasyan, Anush Babayan, Armine Moghrovyan, Naira Sahakyan,

Margarit Petrosyan, Karen Trchounian

Conference

Regulation of catalase and superoxide dismutase activities by sodium and potassium ions in *Saccharomyces cerevisiae*

A. Shirvanyan, S. Mirzoyan, K. Trchounian

Conference

THE OXIDATIVE STRESS AND POSSIBLE PREVENTIVE ACTION OF PLANT BORN POLYPHENOLS

Anahit Shirvanyan, Anush Babayan, Alvard Minasyan, Margarit Petrosyan, Anna Poladyan,

Naira Sahakyan
