

Syuzanna Suren Blbulyan

✉ sblbulyan@ysu.am



Faculty of Biology

Chair of Biochemistry, Microbiology, and Biotechnology

Lecturer on an hourly basis



Education

Institution	Russian-ARMENIA UNIVERSITY
Faculty	Faculty of Medical Biochemistry and Biotechnology
Date	2010 - 2015
Degree name	Applicant

Institution	Yerevan State University
Faculty	Faculty of Biology
Date	2007 - 2009
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Biology
Date	2003 - 2007
Degree name	Bachelor



Scientific Rank/degree

Institution	Yerevan State University
Date	2019
Degree name	Candidate
Specialty	Biological sciences
Scientific Supervisor	Trchounian Armen Hambardzum
Research Topic	THE CHARACTERIZATION OF ATP-ASE ACTIVITY OF SOME BACTERIA UPON GLYCEROL AND GLUCOSE OXIDATION CONDITIONS



Language skills

Русский English



Work experience

Institution	The RA Ministry of Education, Science, Culture and Sports Higher Education and Science Committee
--------------------	--

Period of time	2023 till now
Rank/degree	Assistant of the Chairman
Institution	Yerevan State University
Period of time	2021 till now
Rank/degree	Assistant professor at the chair
Institution	THE MINISTRY OF EDUCATION, SCIENCE, CULTURE AND SPORTS OF THE REPUBLIC OF ARMENIA
Period of time	2021 - 2023
Rank/degree	Assistant of Deputy Minister
Institution	Yerevan State University
Period of time	2012 - 2021
Rank/degree	senior laboratory assistant, secretary
Institution	Russian-Armenian University
Period of time	2010 - 2012
Rank/degree	laboratory assistant
Institution	Yerevan State University
Period of time	2008 - 2009
Rank/degree	laboratory assistant

Publications

Article

L-amino acids affect the hydrogenase activity and growth of *Ralstonia eutropha* H16

Meri Iskandaryan, Syuzanna Blbulyan, Mayramik Sahakyan, Anait Vassilian, Karen Trchounian,

Anna Poladyan

AMB Express 2023 33

Article

The prospects of brewery waste application in biohydrogen production by photofermentation of *Rhodobacter sphaeroides*.

Lilit Hakobyan, Lilit Gabrielyan, Syuzanna Blbulyan, Armen Trchounian

International Journal of Hydrogen Energy 2021 289-296

Article

BIOMASS AND BIOHYDROGEN PRODUCTION BY *ESCHERICHIA COLI* UPON CONSUMPTION OF MEAT INDUSTRY AND LIGNOCELLULOSIC CORN WASTES MIXTURE

Syuzanna Blbulyan, Satenik Mirzoyan, Karen Trchounian, Anna Poladyan

Proceedings of the YSU B: Chemical and Biological Sciences 2021 224-231

Article

Application of organic waste glycerol to produce crude extracts of bacterial cells and microbial hydrogenase—the anode enzymes of bio-electrochemical systems

Anna Poladyan, Syuzanna Blbulyan, Tatiana Semashko, Volha Dziameshka, Liudmila Zhukouskaya,

Armen Trchounian

FEMS Microbiology Letters 2020 1-7

Article

Growth of the facultative chemolithoautotroph *Ralstonia eutropha* on organic waste materials: Growth characteristics, redox regulation and hydrogenase activity

Anna Poladyan, Syuzanna Blbulyan, Mayramik Sahakyan, Oliver Lenz, Armen Trchounian

Microbial Cell Factories 2019 1-13

Article

GLUCOSE CONCENTRATION DEPENDENT ATP-ASE ACTIVITY IN ESCHERICHIA COLI DURING FERMENTATION AND THE ROLE OF HYDROGENASE 4

S.S.Blbulyan

Հայաստանի կենսաբանական հանդես 2016 85-91

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

Article

Redox stress in geobacilli from geothermal springs: Phenomenon and membrane-associated response mechanisms

Astghik Ghazaryan, Syuzanna Blbulyan, Anna Poladyan, Armen Trchounian

Bioelectrochemistry 2015 1-6

<http://www.journals.elsevier.com/bioelectrochemistry>

Article

Impact of membrane-associated hydrogenases on the FOF1-ATPase in *Escherichia coli* during glycerol and mixed carbon fermentation: ATPase activity and its inhibition by N,N0-dicyclohexylcarbodiimide in the mutants lacking hydrogenases

Syuzanna Blbulyan, Armen Trchounian

Archives of Biochemistry and Biophysics 2015 67-72

<https://www.journals.elsevier.com/archives-of-biochemistry-and-biophysics/>

Article

Hydrogenase activity and proton-motive force generation by *Escherichia coli* during glycerol fermentation

Karen Trchounian, Syuzanna Blbulyan, Armen Trchounian

Journal of Bioenergetics and Biomembranes 2013 253-260

<http://www.springer.com/chemistry/organic+chemistry/journal/10863>

Article

Changes in Ion Transport through Membranes, ATPase Activity and Antibiotics Effects in *Enterococcus hirae* after Low Intensity Electromagnetic Irradiation of 51.8 and 53.0 GHz Frequencies

H. Torgomyan, S. Blbulyan, A. Trchounian, V. Ohanyan

Biophysics 2013 524-529

<http://pleiades.online/en/journal/biophys/>

Conference

The Combined Effects of Electromagnetic Radiation and Low Concentration of Sulfur Dioxide on Growth and Survival of Wine Lactic Acid Bacteria

D. Soghomonyan, S. Blbulyan, M. Bagdasaryan, A. Trchounian

Conference

ESCHERICHIA COLI FOF1-ATPASE ACTIVITY AND ITS COOPERATION WITH HYDROGENASE4 (Hyf) DEPEND ON GLUCOSE CONCENTRATION

S. Blbulyan, A. Trchounian

Conference

Glucose concentrations influence on activities of FoF1 ATPase and hydrogenase 4 in Escherichia coli

A. Poladyan, M. Sahakyan, S. Blbulyan, K. Trchounian, A. Trchounian

Conference

Influence of glucose concentration on Escherichia coli FOF1-ATPase and hydrogenase 4 (hyf) enzymes activities

Syuzanna Blbulyan, Armen Trchounian

Conference

Growth and Bioenergetics Properties of Facultative Chemolithoautotrophic Bacterium Ralstonia Eutropha Upon Organic Waste Materials Utilization

S. Blbulyan, M. Sahakyan, A. Poladyan, A. Trchounian

Conference

Влияние электромагнитного излучения крайне высоких частот на состав фотосинтетических пигментов и выделение водорода фототрофными микроорганизмами

Габриелян Л.С., Блбулян С.С., Трчунян А.А.

Conference

Redox regulation of the growth, hydrogenase activity and bioenergetic properties of Ralstonia eutropha upon different carbon source utilization

S. Blbulyan, M. Sahakyan, A. Poladyan, A. Trchounian

Conference

Lignocellulosic waste as feedstock for bacterial biomass production: enhanced hydrogen evolution and hydrogenase activity

Anna Poladyan, Syuzanna Blbulyan, Mayramik Sahakyan, Armen Trchounian

Conference

H₂ - Oxidizing Activity of Escherichia coli Upon Utilization of Different Waste Components

A. Poladyan, L. Baghdasaryan, S. Blbulyan, A. Trchounian

Conference

Ethanol Affected Bacterial Growth and molecular Hydrogen Production by Escherichia coli Upon Fermentation of Glycerol

S. Blbulyan, A. Poladyan, A. Trchounian

Conference

Biological Hydrogen Generation by Purple Bacteria as a Promising Way of Industrial Waste

Treatment

L. Hakobyan, S. Blbulyan, L. Gabrielyan, A. Trchounian

Conference

Biomass and biohydrogen production by Escherichia coli upon consumption of meat and lignocellulosic waste mixture

Syuzanna Blbulyan, Anna Poladyan, Satenik Mirzoyan, Liana Mnatsakanyan, Karen Trchounian

Conference

WINE GRAPE WASTE APPLICATION FOR ESCHERICHIA COLI BIOMASS AND H₂ PRODUCTION

Syuzanna Blbulyan, Lusine Baghdasaryan, Satenik Mirzoyan, Anahit Vassilian, Tatiana Semashko,

Anna Poladyan
