

Lilit Sergey Gabrielyan

Faculty of Biology

Chair of Biochemistry, Microbiology, and Biotechnology

Associate professor

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(374) 71-05-19

✉ lgabrielyan@ysu.am



Education

Institution	Yerevan State University
Faculty	Biology Faculty, Department of Biophysics
Date	1994 - 1999
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2012
Degree name	Associate professor
Specialty	Biological sciences

Institution	Yerevan State University
Date	2006
Degree name	Candidate
Specialty	Biological sciences

Language skills

Հայերեն English Deutsch Русский

Work experience

Institution	Yerevan State University
Period of time	2022 till now
Rank/degree	Chairman of the Competition Committee, Academic Council, Biology Faculty

Institution	Yerevan State University
Period of time	2016 till now
Rank/degree	Associate Professor, Department of Biochemistry, Microbiology and Biotechnology, Biology Faculty

Institution	Yerevan State University
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Period of time	2015 - 2016
Rank/degree	Associate Professor, Department of Microbiology, Microbe and Plants Biotechnology, Biology Faculty
Institution	Yerevan State University
Period of time	2012 - 2015
Rank/degree	Associate Professor, Department of Biophysics, Biology Faculty
Institution	Yerevan State University
Period of time	2007 - 2012
Rank/degree	Assistant Professor, Department of Biophysics, Biology Faculty
Institution	Yerevan State University
Period of time	2006 - 2018
Rank/degree	Senior Scientific Researcher, Department of Biophysics, Biology Faculty
Institution	Yerevan State University
Period of time	2003 - 2006
Rank/degree	Junior Scientific Researcher, Department of Biophysics, Biology Faculty
Institution	Yerevan State University
Period of time	2001 - 2003
Rank/degree	Senior Lab. Assistant, Department of Biophysics, Biology Faculty

Scientific interests

- Bioenergetics and biochemistry of phototrophic microorganisms (bio-hydrogen production; photo-fermentation; regulation of microbial growth; redox regulation; purple bacteria; green algae)
- biophysics and bioenergetics of biological membranes (membrane ion transfer, membrane potential, proton motive force, proton-translocating ATPase)
- nanotechnology (green synthesis of nanoparticles, physicochemical characteristics, antibacterial potential)

Membership

Institution	Member of the Academic Council of the Faculty of Biology
Period of time	2022 till now

State awards and honorary titles

2011 The “Best scientific work” award of The National Academy of Sciences of Armenia, World Armenian Congress and The Union of Armenians in Russia

2022 “Award for Excellence in Teaching at Yerevan State University” in the category of Natural Sciences

Article

Gold nanoparticles activate hydrogenase synthesis and improve heterotrophic growth of *Ralstonia eutropha* H16

Tatevik Manutsyan, Syuzanna Blbulyan, Anait Vassilian, Tatiana Semashko, Gayane Kirakosyan,

Lilit Gabrielyan, Karen Trchounian, Anna Poladyan

FEMS Microbiology Letters 2024 1-8

Article

Comparison of sulfur and nitrogen deprivation effects on photosynthetic pigments, polyphenols, photosystems activity and H₂ generation in *Chlorella vulgaris* and *Parachlorella kessleri*

Jemma Manoyan, Lilit Hakobyan, Tatsiana Samovich, Nikolai Kozel, Naira Sahakyan,

Hanna Muravitskaya, Vadim Demidchik, Lilit Gabrielyan

International Journal of Hydrogen Energy 2024 408-418

Article

Phototrophic microorganisms as the future of green biotechnology

Lilit Hakobyan, Lilit Gabrielyan

Microbial Essentialism: An Industrial Prospective 2024 181-205

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

ACS Omega 2024 29410–29421

Article

СИНТЕЗ БИОВОДОРОДА КЛЕТКАМИ ЗЕЛЕННЫХ МИКРОВОДОРОСЛЕЙ И СПОСОБЫ ЕГО СТИМУЛЯЦИИ

М. А. МЫСЛЕЙКО, М. С. ВЕЧЕРЕК, Дж. Г. МАНОЯН, Л. С. ГАБРИЕЛЯН, Т. В. САМОВИЧ, Н. В. КОЗЕЛ, А. О. МУРАВИЦКАЯ, В. В. ДЕМИДЧИК

Экспериментальная биология и биотехнология 2024 36-45

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

Article

Growth characteristics, biohydrogen production and photochemical activity of photosystems in green microalgae *Parachlorella kessleri* exposed to nitrogen deprivation

Jemma Manoyan, Tatsiana Samovich, Nikolai Kozel, Vadim Demidchik, Lilit Gabrielyan

International Journal of Hydrogen Energy 2022 16815-16823

Article

Biosynthesis of silver nanoparticles using extracts of Stevia rebaudiana and evaluation of antibacterial activity

Marina Timotina, Anush Aghajanyan, Robin Schubert, Karen Trchounian, Lilit Gabrielyan

World Journal of Microbiology and Biotechnology 2022 1-10

Article

Ribes nigrum L. Extract-Mediated Green Synthesis and Antibacterial Action Mechanisms of Silver Nanoparticles

Zaruhi Hovhannisyanyan, Marina Timotina, Jemma Manoyan, Lilit Gabrielyan, Margarit Petrosyan, Barbara Kusznierevich, Agnieszka Bartoszek, Claus Jacob, Mikayel Ginovyan, Karen Trchounian, Naira Sahakyan, Muhammad Jawad Nasim

Antibiotics 2022 1-17

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

Antibacterial activity of royal jelly-mediated green synthesized silver nanoparticles

Susanna Gevorgyan, Robin Schubert, Mkrtich Yeranossyan, Lilit Gabrielyan, Armen Trchounian, Kristina Lorenzen, Karen Trchounian

AMB Express 2021 51

Article

Перспективы применения отходов алкогольной промышленности в фотовыделении водорода пурпурной бактерией Rhodobacter sphaeroides

Л. С. ГАБРИЕЛЯН

Journal of the Belarusian State University. Biology 2021 70-77

Article

THE ETHANOL INDUSTRY WASTE AS A VALUABLE FEEDSTOCK FOR HYDROGEN PHOTOPRODUCTION BY GREEN ALGAE CHLORELLA VULGARIS

J.G. Manoyan, L.S. Gabrielyan

Proceedings of the YSU B: Chemical and Biological Sciences 2021 232-239

Article

Silver ion bioreduction in nanoparticles using Artemisia annua L. extract: characterization and application as antibacterial agents

Anush Aghajanyan, Lilit Gabrielyan, Robin Shubert, Armen Trchounian

AMB Express 2020 1-9

Article

Comparable antibacterial effects and action mechanisms of silver and iron oxide nanoparticles on Escherichia coli and Salmonella typhimurium

Lilit Gabrielyan, Hamlet Badalyan, Vladimir Gevorgyan, Armen Trchounian

Scientific Reports 2020 13145(1-11)

Article

Growth properties and hydrogen yield in green microalga *Parachlorella kessleri*: Effects of low-intensity electromagnetic irradiation at the frequencies of 51.8 GHz and 53.0 GHz

Jemma Manoyan, Lilit Gabrielyan, Vitaly Kalantaryan, Armen Trchounian

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 2020 112016(1-6)

Article

Антибактериальные свойства наночастиц серебра и мембранотропные механизмы их действия.

Л. С. ГАБРИЕЛЯН, А. А. ТРЧУНЯН

Journal of the Belarusian State University. Biology 2020 64-71

Article

Biohydrogen by *Rhodobacter sphaeroides* during photo-fermentation: Mixed vs. sole carbon sources enhance bacterial growth and H₂ production

Lilit Hakobyan, Lilit Gabrielyan, Armen Trchounian

International Journal of Hydrogen Energy 2019 674-679

Article

Комбинирование ионов Mg(II) и Fe(II) как подход к повышению выхода водорода в *Rhodobacter sphaeroides*.

Габриелян Л. С.

Հայաստանի կենսաբանական հանդես 2019 60-66

Article

НАКОПЛЕНИЕ БЕЛКА И ЭКСПРЕССИЯ ГЕНА НИТРАТРЕДУКТАЗЫ В КЛЕТКАХ *SPIRULINA PLATENSIS* В ЗАВИСИМОСТИ ОТ СПЕКТРАЛЬНОГО СОСТАВА СВЕТОДИОДНОГО ИЗЛУЧЕНИЯ

Н. В. КОЗЕЛ, М. С. РАДЮК, Т. В. САМОВИЧ, И. А. ДРЕМУК, Л. С. ГАБРИЕЛЯН

Proceedings of the National Academy of Sciences of Belarus. Biological Series 2019 180-189

Article

Antibacterial activities of transient metals nanoparticles and membranous mechanisms of action

Lilit Gabrielyan, Armen Trchounian

World Journal of Microbiology and Biotechnology 2019 1-10

Article

Regulation of biohydrogen production by protonophores in novel green microalgae *Parachlorella kessleri*

Jemma Manoyan, Lilit Gabrielyan, Nikolai Kozel, Armen Trchounian

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 2019 1-5

Article

ДЕЙСТВИЕ ЭЛЕКТРОМАГНИТНОГО ИЗЛУЧЕНИЯ С ЧАСТОТОЙ 51,8 И 53,0 ГГц НА РОСТ, СОДЕРЖАНИЕ ПИГМЕНТОВ, ФОТОВЫДЕЛЕНИЕ ВОДОРОДА И АКТИВНОСТЬ F0F1-АТФазы ПУРПУРНОЙ БАКТЕРИИ *Rhodobacter sphaeroides*

Л. Габриелян, В. Калантарян, А. Трчунян

Биофизика (Biophysics) 2018 468-474

<http://www.maik.ru/ru/journal/biofiz/>

Monograph

Metal Nanoparticles (eds. Y. Saylor, V. Irby): Chapter 4. Nanoparticles of Various Transition Metals and Their Applications as Antimicrobial Agents

A. Trchounian, L. Gabrielyan, N. Mnatsakanyan

2018 161-211

Article

Characterization of light-dependent hydrogen production by new green microalga *Parachlorella kessleri* in various conditions

Lilit Gabrielyan, Lusine Hakobyan, Armen Trchounian

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 2017 207-210

<http://www.journals.elsevier.com/journal-of-photochemistry-and-photobiology-b-b...>

Article

Влияние режима освещения на выделение водорода фототрофными организмами

Габриелян Л.С.

Биологический журнал Армении 2017 30-34

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

Article

Bio-hydrogen production by *Rhodobacter sphaeroides* during mixed carbon fermentation

Hakobyan L.Y., Gabrielyan L.S, Trchounian A.H.

Biological Journal of Armenia 2017 110-113

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

Article

The distillers grains with solubles as a perspective substrate for obtaining biomass and producing bio-hydrogen by *Rhodobacter sphaeroides*

Harutyun Sargsyan, Lilit Gabrielyan, Armen Trchounian

BIOMASS & BIOENERGY 2016 90-94

<http://www.journals.elsevier.com/biomass-and-bioenergy>

Article

Novel approach of ethanol waste utilization: Biohydrogen production by mixed cultures of dark and photo-fermentative bacteria using distillers grains

Harutyun Sargsyan, Karen Trchounian, Lilit Gabrielyan, Armen Trchounian

International Journal of Hydrogen Energy 2016 2377-2382

<http://www.journals.elsevier.com/international-journal-of-hydrogen-energy/>

Article

Biohydrogen production by purple non-sulfur bacteria *Rhodobacter sphaeroides*: Effect of low-intensity electromagnetic irradiation

Lilit Gabrielyan, Harutyun Sargsyan, Armen Trchounian

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 2016 592-596

<http://www.journals.elsevier.com/journal-of-photochemistry-and-photobiology-b-b...>

Article

The effect of Cu (I) and Cu (II) ions' low concentrations on growth, biohydrogen production and the FoF1-ATPase activity of *Rhodobacter sphaeroides*

Lilit Hakobyan, Harutyun Sargsyan, Lilit Gabrielyan, Armen Trchounian

International Journal of Hydrogen Energy 2016 16807-16812

Article

Հայաստանի հանքային աղբյուրներից մեկուսացված *Rhodobacter sphaeroides* բակտերիաներում կենսաչրածնի ֆոտոարտադրության առանձնահատկությունները տարբեր վերականգնիչների և օքսիդիչների առկայությամբ

Արսիսնե Պողոսյան, Լիլիթ Գաբրիելյան

ԵՊՀ ՌԻԳԸ գիտական հոդվածների ժողովածու 2016 102-107

<http://www.ysu.am/sss/hy>

Article

Comparative effects of Ni(II) and Cu(II) ions and their combinations on redox potential and hydrogen photoproduction by *Rhodobacter sphaeroides*

Lilit Gabrielyan, Lilit Hakobyan, Armen Trchounian

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY 2016 271-275

<http://www.journals.elsevier.com/journal-of-photochemistry-and-photobiology-b-b...>

Article

Novel properties of photofermentative biohydrogen production by purple bacteria *Rhodobacter sphaeroides*: effects of protonophores and inhibitors

Lilit Gabrielyan, Harutyun Sargsyan, Armen Trchounian

Microbial Cell Factories 2015 131-141

<https://microbialcellfactories.biomedcentral.com/>

Article

Study of membrane properties of *Rhodobacter sphaeroides* under various growth conditions.

Gabrielyan L., Hakobyan L., Sargsyan H., Trchounian A.

European Biophysics Journal with Biophysics Letters 2015 S88-S88

<https://link.springer.com/journal/249>

Article

Light-dark duration alternation effects on *Rhodobacter sphaeroides* growth, membrane properties and bio-hydrogen production in batch culture

Harutyun Sargsyan, Lilit Gabrielyan, Lilit Hakobyan, Armen Trchounian

International Journal of Hydrogen Energy 2015 4084-4091

<http://www.journals.elsevier.com/international-journal-of-hydrogen-energy/>

Article

Regulation of hydrogen photoproduction in *Rhodobacter sphaeroides* batch culture by external oxidizers and reducers

Lilit Gabrielyan, Harutyun Sargsyan, Armen Trchounian

Applied Energy 2014 20-25

<http://www.elsevier.com/locate/apenergy>

Article

Concentration-dependent effects of metronidazole, inhibiting nitrogenase, on hydrogen photoproduction and proton-translocating ATPase activity of *Rhodobacter sphaeroides*

Harutyun Sargsyan, Lilit Gabrielyan, Armen Trchounian

International Journal of Hydrogen Energy 2014 100-106

<http://www.journals.elsevier.com/international-journal-of-hydrogen-energy/>

Article

Համակարգչային տեխնոլոգիաների կիրառման առավելությունները և փորձը բուհական կենսաբանության դասավանդման ընթացքում
Լ.Ս. Գաբրիելյան, Ա.Ա. Փոլադյան, Ա.Հ. Թռչունյան
Բնագետ 2014 139-141

Article

The Effect of Various Metal Ions on Bio-hydrogen Production and F0F1-ATPase Activity of Rhodobacter Sphaeroides
Lilit Hakobyan, Lilit Gabrielyan, Armen Trchounian
NATO Science for Peace and Security Series C: Environmental Security, Black Sea Energy Resource Development and Hydrogen Energy Problems
2013 165-177
<http://www.springer.com/us/book/9789400761513>

Conference

New sources and optimized conditions for hydrogen production by Rhodobacter sphaeroides
Lilit Gabrielyan, Lilit Hakobyan, Harutyun Sargsyan, Armen Trchounian

Conference

Воздействие миллиметровых волн низкой интенсивности на росте фотовыделение H₂ пурпурной бактерией Rhodobacter sphaeroides
Габриелян Л.С., Саргсян А.Г., Оганян В.А., Трчунян А.А.

Conference

Comparative Effects of Cu(II) and Ni(II) Ions Low Concentrations on Rhodobacter sphaeroides Growth Characteristics and Hydrogen Production
L. Gabrielyan, A. Trchounian

Conference

Photofermentative Hydrogen Production by Rhodobacter sphaeroides Using Ethanol Fermentation Waste
L.Gabrielyan, H. Sargsyan, A. Trchounian

Conference

Advantages of mixed carbon fermentation in biological hydrogen production by Rhodobacter sphaeroides
Lilit Hakobyan, Lilit Gabrielyan, Armen Trchounian

Conference

Окислительно-восстановительный потенциал и фотовыделение H₂ Rhodobacter sphaeroides: влияние ингибитора нитрогеназной активности.
Габриелян Л.С.

Conference

Oxidizer and reducer different effects on proton-translocating FoF1-ATPase activity of Rhodobacter sphaeroides membrane vesicles
L. Gabrielyan, L. Hakobyan, A. Trchounian

Conference

Combination of dark- and photo-fermentative bacteria to enhance hydrogen production from ethanol (distillers grains) waste

Harutyun Sargsyan, Lilit Gabrielyan, Armen Trchounian

Conference

Metabolic cross-talk between nitrogenase and hydrogenase in Rhodobacter sphaeroides during photofermentation and hydrogen production

Lilit Gabrielyan, Armen Trchounian

Conference

Inhibitor studies on hydrogen photoproduction by Rhodobacter sphaeroides

Lilit Gabrielyan, Harutyun Sargsyan, Armen Trchounian

Conference

Effect of iron and magnesium ions combination on hydrogen photoproduction by Rhodobacter sphaeroides

L. Gabrielyan, A. Trchounian

Conference

Redox regulation of FoF1-ATPase activity of membrane vesicles of Rhodobacter sphaeroides

Lilit Hakobyan, Lilit Gabrielyan, Armen Trchounian

Conference

Distiller's grains in bio-hydrogen production by Rhodobacter sphaeroides

Lilit Gabrielyan, Harutyun Sargsyan, Armen Trchounian

Conference

Light/dark duration as a tool to enhance bio-hydrogen production by Rhodobacter sphaeroides

Lilit Hakobyan, Lilit Gabrielyan, Armen Trchounian

Conference

Developing hydrogen production biotechnology: cheap substrates, effective strains and optimized fermentative conditions

K.Trchounian, A. Poladyan, L. Gabrielyan, A. Trchounian

Conference

Effects of light/dark duration on hydrogen production by green microalgae Chlorella pyrenoidosa

L. Gabrielyan, L. Hakobyan, A. Trchounian

Conference

BIOENERGETICS OF PHOTOFERMENTATION: EFFECT OF PROTONOPHORES ON MEMBRANE-ASSOCIATED ATPASE ACTIVITY IN RHODOBACTER SPHAEROIDES

H. Sargsyan, L. Gabrielyan, A. Trchounian

Conference

Hydrogen cycle in purple non-sulfur bacteria: relationship between nitrogenase and hydrogenase

L. Gabrielyan, H. Sargsyan, L. Hakobyan, A. Trchounian

Conference

Membrane conductance of Rhodobacter sphaeroides and the input of FOF1- ATPase in its formation

L. Hakobyan, L. Gabrielyan, A. Trchounian

Conference

The role of FOF1-ATPase in biological hydrogen production by Rhodobacter sphaeroides during mixed carbon fermentation

L. Hakobyan, L. Gabrielyan, A. Trchounian

Conference

ՄԱՆՐԵԼԵՐԻ ԿԵԼՍԱՏԵԽՆՈԼՈԳԻԱԼԵՐԻ ՄԱԳԻՍՏՐՈՍԱԿԱՆ ՆՈՐ ԾՐԱԳՐԵՐԻ ԴԱՍԱԿԱՆԴՄԱՆ ՍԵԹՈՂԱԲԱՆԱԿԱՆ ՍՈՏԵՑՈՒՄԵՐԸ ԵՐԵՎԱՆԻ ՊԵՏԱԿԱՆ ՀԱՄԱԼՍԱՐԱՆՈՒՄ

Թռչունյան Կ.Ա., Գաբրիելյան Լ.Ս., Փոլադյան Ա.Ա., Թռչունյան Ա.Հ.

Conference

Iron Oxide Nanoparticles As Antimicrobial Agents

L. Gabrielyan, A. Trchounian

Conference

NEW APPROACH IN HYDROGEN ENERGY BIOTECHNOLOGY: EFFECTS OF SOLE AND MIXED CARBON SOURCES ON HYDROGEN YIELD IN PURPLE NONSULFUR PHOTOSYNTHETIC BACTERIA AND THEIR SIGNIFICANCE

Lilit Gabrielyan, Armen Trchounian

Conference

Регуляция фотовыделения биоводорода пурпурной бактерией Rhodobacter sphaeroides

Габриелян Л.С., Акопян Л.Ю., Трчунян А.А.

Conference

Enhancement of biohydrogen production by uncouplers in new green microalga Parachlorella kessleri.

L. Gabrielyan, A. Trchounian

Conference

Աճեցման պայմանների ազդեցությունը Ավանի (Հայաստան) աղի հանքից մեկուսացված

Haloarcula japonica A2 շտամի ընդհանուր կարոտինոիդների արտադրության վրա

Ազարյան Ա., Գաբրիելյան Լ., Փանոսյան Հ., Թռչունյան Ա.

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

Overcoming Antibiotic Resistance: Heavy Metal Nanoparticles as Antibacterial Agents against Antibiotic Resistant Escherichia coli Strains

A. Trchounian, L. Gabrielyan, N. Sahakyan

Conference

Regulation of hydrogen yield in green microalga *Parachlorella kessleri* by physicochemical factors

Alexandra Rubtsova, Lilit Gabrielyan, Armen Trchounian

Conference

Effect of growth conditions on the growth rate, photosynthetic pigments content and pH value of new green microalga *Parachlorella kessleri*

L. Gabrielyan, J. Manoyan, A. Trchounian

Conference

Optimization of growth conditions and substrates used as a tool altering the mode of metabolism of *Rhodobacter sphaeroides*: the role of membrane bound systems in the mechanisms of regulation.

L. Hakobyan, L. Gabrielyan, A. Trchounian

Conference

HYDROPONIC STEVIA REBAUDIANA AS AN ALTERNATIVE PATH OF CULTIVATION: NOVEL ANTIBACTERIAL PROPERTIES

AGHAJANYAN Anush, GABRIELIAN Lilit, BABAKHANYAN Mikayel, HOVHANNISYAN Lusya,

TRCHOUNIAN Armen

Conference

ЗЕЛЕНЬЙ СИНТЕЗ НАНОЧАСТИЦ СЕРЕБРА С ИСПОЛЬЗОВАНИЕМ ЭКСТРАКТА *ARTEMISIA ANNUA L.*

А.А. Агаджанян, Л.С. Габриелян, А.А. Трчунян

Conference

Перспективы фотоферментативного выделения H₂ пурпурными бактериями при использовании углерод-содержащих продуктов.

Л.С. Габриелян, Л.Ю. Акопян, А.А. Трчунян

Conference

Влияние условий культивирования на выделение H₂ зеленой микроводорослью *Parachlorella kessleri*.

Л.С. Габриелян, Дж.Г. Маноян, А.А. Трчунян

Conference

Влияние стабилизатора на антибактериальные свойства наночастиц оксида железа.

Тимотина М.И., Арутюнян А.А., Габриелян Л.С., Трчунян А.А.

Conference

Изучение антибактериального действия наночастиц серебра на *Salmonella typhimurium* MDC1759.

Арутюнян А.А., Тимотина М.И., Габриелян Л.С., Трчунян А.А.

Conference

Перспективы применения отходов алкогольной промышленности в фотовыделении водорода пурпурной бактерией *Rhodobacter sphaeroides*.

Габриелян Л.С.

Conference

Антибактериальные свойства наночастиц серебра и мембранотропные механизмы их действия.

Габриелян Л.С., Трчунян А.А.

Conference

Antibacterial Activity and Action Mechanisms of Silver Nanoparticles against *Escherichia coli* Wild Type and Drug-resistant Strains and *Salmonella typhimurium*

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Prospective Trends in Biotechnology for Biohydrogen

Karen Trchounian, Anna Poladyan, Lilit Gabrielyan, Armen Trchounian

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Effect of Electromagnetic Radiation on Growth Properties of Green Microalga *Parachlorella Kessleri*

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

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Comparative Investigation of Silver Nanoparticles Action on Growth Peculiarities and Survival of Various Bacteria

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Prospects of industrial and kitchen wastes application in H₂ production

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Antibacterial activity of *Ribes nigrum* extract-mediated synthesized AgNPs

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

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Hydrogen generation in sulfur-deprived green microalgae *Chlorella vulgaris*

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Brewer's spent grain as a potential substrate for hydrogen production by *Parachlorella kessleri*

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Antibacterial activity of silver nanoparticles biosynthesized from *Stevia rebaudiana* extract

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Green synthesis of silver nanoparticles and their effect on the energy-dependent H⁺ -fluxes across the bacterial membrane

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

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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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The case of industrial waste utilization by phototrophic microorganisms: incorporating active learning strategies for effective Biotechnology and Microbiology instruction at the graduate level

L. Hakobyan, L. Gabrielyan

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SPIRULINA-ի ԿԵՆՍԱԶԱՆԳՎԱԾԻՑ ԱՐԾԱԹԻ ՆԱՆՈՍԱՄԱՆԻԿՆԵՐԻ ՍԻՆԹԵԶԸ ԵՎ ԴՐԱՆՑ ՀԱԿԱԲԱԿՏԵՐԻԱԿԱՆ ԱԿՏԻՎՈՒԹՅՈՒՆԸ

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

Conference

CHLORELLACEAE ԸՆՏԱՆԻՔԻ ԶՐԻՍՈՒՈՆԵՐԻ ԱՃՍԱՆ ԲՆՈՒԹԱԳՐԵՐԸ և ԿԵՆՍԱԶՐԱԾՆԻ ԱՐՏԱԴՐՈՒԹՅՈՒՆԸ ԿԵՆՍԱԾԻՆ ՏԱՐՐԵՐԻ ՍԱԿԱՎՈՒԹՅԱՆ ՊԱՅՄԱՆՆԵՐՈՒՄ

Մանոյան Ջ.Գ., Հակոբյան Լ.ՅոՆ., Մուրավիցկայա Ա.Օ., Դեմիրչիկ Վ.Վ., Գաբրիելյան Լ.Ս.

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Оценка продукции биоводорода и цифровой анализ фенотипа водорослей семейства *Chlorellaceae* белорусских и армянских штаммов

Муравицкая А. О., Светлаков В. И., Бондаренко В. Ю., Самович Т. В., Козел Н. В., Соколик А. И.,

Габриелян Л. С., Маноян Д. Г., Демидчик А. И.

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

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

Conference

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

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

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The cytotoxicity and antibacterial activity of Moringa oleifera-mediated silver nanoparticles

M. Timotina, T. Manutsyan, M. Ginovyan, K. Trchounian, L. Gabrielyan, A. Aghajanyan

Conference

Application of active learning strategies to improve student engagement

L. Hakobyan, L. Gabrielyan

Conference

Enhancement of H₂ production by Chlorella vulgaris using potato peel waste

J. Manoyan, L. Hakobyan, L. Gabrielyan
