Syuzan Ashot Marutyan

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Research Institute of Biology
Basic and Pathological Biochemistry Laboratory
Junior Researcher

Faculty of Biology
Research Institute of Biology
Basic and Pathological Biochemistry Laboratory
Junior Researcher

STEM School
Tutor

Education

Institution	Yerevan State University
Faculty	Biology
Date	2017 - 2019
Degree name	Masters

Faculty	Biology
Date	2013 - 2017
Degree name	Bachelor

Language skills

Русский English

Work experience

Institution	YSU STEM school
Period of time	2023 till now
Rank/degree	teacher

Institution	‘‘Royal jelly as a new for radioprotective and antioxidant biochemical drug” 21T-1F300
Period of time	2021 till now
Rank/degree	labourant

Institution	YSU Institute of Biology
Period of time	2019 till now
Rank/degree	Senior Laboratory Assistant

Institution	№55 school named after A. Chekhov
Period of time	2017 - 2018
Rank/degree	teacher

Publications

Article

The Influence of Dicranum scoparium Moss Extract on the Growth of Yeasts Candida guilliermondii NP-4

Gayane Henrik Semerjyan, Inessa Henrik Semerjyan, Syuzan Ashot Marutyan,

Hripsime Masis Ter- Sahakyan, Hasmik Maenlest Karapetyan, Seda Victor Marutyan

Biological Science and Innovation for Achieving the Sustainable Development Goals 2026 131-150

https://www.igi-global.com/book/biological-science-innovation-achieving-sustain...

Article

Royal jelly induces coordinated redox and energy metabolic responses in Candida guilliermondii NP-4

Seda Victor Marutyan, Syuzan Ashot Marutyan, Anna Muradyan, Meri Hayrapetyan, Gayane Semerjyan,

Hasmik Karapetyan

World Journal of Microbiology and Biotechnology 2026 349

https://doi.org/10.1007/s11274-026-05080-z

Conference

The Influence of Dicranium scoparium Moss Extract on the Growth of the Yeast Candida guilliermondii NP-4

Gayane Semerjyan, Inesa Semerjyan, Syuzan Marutyan, Hasmik Karapetyan, Hripsime Ter-Sahakyan,

Seda Marutyan

2025 30-30

http://bioenv-sdg.ysu.am

Conference

Changes in ATPase and Antioxidant Enzymes Activities in Yeast Candida guilliermondii NP-4 Exposed to Millimeter Waves

Muradyan Anna, Marutyan Syuzan, Hayrapetyan Meri, Karapetyan Hasmik, Marutyan Seda

2025 82 - 82

http://bioenv-sdg.ysu.am

Conference

Royal Jelly Enhances Recovery from UV-Induced Metabolic and Oxidative Stress in Candida guilliermondii NP-4

Syuzan A. Marutyan, Anna Muradyan, Meri Hayrapetyan, Hasmik Karapetyan, Seda V. Marutyan

2025 102 - 102

http://bioenv-sdg.ysu.am

Conference

Effect of Royal Jelly on Antioxidant Enzymes and ATPase Activity of C.guilliermondii NP-4 Yeast Exposed to X-Ray Radiation

Seda Marutyan, Hasmik Karapetyan, Syuzan Marutyan, Anna Muradyan, Mery Hayrapetyan

2025 74 - 74

http://bioenv-sdg.ysu.am

Article

Changes in ATPase activity, antioxidant enzymes and proline biosynthesis in yeast Candida guilliermondii NP-4 under X-irradiation

Hasmik Karapetyan, Syuzan Marutyan, Anna Muradyan, Hamlet Badalyan, Seda Marutyan,

Karen Trchounian

Journal of Bioenergetics and Biomembranes 2024 1-8

Article

The antimicrobial efects of silver nanoparticles obtained through the royal jelly on the yeasts Candida guilliermondii NP-4

Seda Marutyan, Hasmik Karapetyan, Lusine Khachatryan, Anna Muradyan, Syuzan Marutyan,

Anna Poladyan, KarenTrchounian

Scientific Reports 2024 19163

Article

Royal Jelly–Mediated Silver Nanoparticles Show Promising Anticancer Effect on HeLa and A549 Cells Through Modulation of the VEGFa/PI3K/Akt/MMP-2 Pathway

Meri Kocharyan, Syuzan Marutyan, Edita Nadiryan, Mikayel Ginovyan, Hayarpi Javrushyan,

Seda Marutyan, Nikolay Avtandilyan

Applied Organometallic Chemistry 2024 1-11

Conference

Influence of UV-irradiation on lipid peroxidation processes and the activity of plasmatic and mitochondrial ATPases oy yeasts Candida guilliermondii NP-4

S. Marutyan, H. Karapetyan, S. Marutyan, A. Muradyan, T. Manutsyan

2024 518 - 518

https://febs.onlinelibrary.wiley.com/doi/10.1002/2211-5463.13856

Conference

The effect of royal jelly on biomass accumulation and antioxidant enzyme activity of the yeast C. guilliermondii NP-4

Marutyan S., Muradyan A., Karapetyan H., Marutyan S.

2024 446 - 446

https://febs.onlinelibrary.wiley.com/doi/10.1002/2211-5463.13837

Conference

The Effect of 51.8 GHz Microwaves on Nucleotide Deamination and ATPase Activity in C. guilliermondii NP-4 Yeast in the Presence of Royal Jelly

Marutyan S.A., Muradyan A., Hayrapetyan M., Marutyan S.V.

2024 100-101

https://www.agrophys.ru/Congress-2024

Conference

Influence of silver nanoparticles obtained by the presence of royal jelly on survival of yeasts Candida guilliermondii NP-4 and on the activity of antioxidant enzymes

S. Marutyan, H. Karapetyan, S. Marutyan, L. Khachatryan

2023 211 - 211

https://2023.febscongress.org

Conference

Influence of X-irradiation on the activity of ATPase and enzymes of antioxidant system in yeasts Candida guilliermondii NP-4

S. Marutyan, A. Muradyan, H. Karapetyan, V. Khalantaryan, S. Marutyan, L. Khachatryan

2023 226 - 227

https://2023.febscongress.org/

Conference

ROYAL JELLY AS A MEANS OF REGULATING PROCESSES DISTURBED BY EXPOSED MILLIMETER WAVES

Marutyan S.A., Karapetyan H.M., Muradyan A.R., Khachatryan L.D, Kalantaryan V.P., Marutyan S.V.

2023 229 - 229

https://newtrendschem.org

Article

ALTERATION OF TOTAL AND MITOCHONDRIAL ATPASE ACTIVITY IN THE BREAST AND LIVER IN BREAST CANCER-INDUCED RATS

Seda V. Marutyan, Gayane A. Petrosyan, Anna R. Muradyan, Lilit A. Marutyan, Syuzan A. Marutyan,

Nikolay V. Avtandilyan

Proceedings of the YSU B Chemical and Biological Sciences 2022 151-160

Conference

Changes in some metabolic processes of yeasts Candida guilliermondii NP-4 under influence of microwaves with a frequency of 51.8GHz

Marutyan S.V., Petrosyan G.A., Karapetyan H.M., Marutyan S.A., Khachatryan L.D., Kalantaryan V.P.,

Muradyan A.

2022 1

https://2022congress.febs-iubmb-pabmb.org/

Article

Changes in growth kinetic parameters, morphology and mitotic activity of yeasts Candida guilliermondii exposed to the low-intensity waves of 51.8-GHz frequency

Seda Marutyan, Syuzan Marutyan, Liparit Navasardyan, Karlen Hovnanyan, Armen Trchounian

Archives of Microbiology 2021 3707-3714

Conference

The effect of Royal Jelly (RJ) on the biomass amount and colony forming ability of yeasts C.guilliermondii NP-4

Navasardyan L.H., Marutyan S.V., Marutyan S.A.

2021 1

https://ecobiomeuz.com/f/abstract_book_last_last.pdf

Article

Ultrastructural investigation of acidocalcisomes and ATPase activity in yeasts Candida guillermondii NP-4 as “complementary” stress-targets

Marutyan S., Marutyan S., Navasardyan L., Trchounian A., Hovnanyan K., Hovnanyan M.

Letters in Applied Microbiology 2020 413-419

Conference

Influence of Royal Jelly on the Growth of Yeasts Candida guilliermondii Exposed to Electromagnetic Radiation

S. Marutyan, S.A.Marutyan, S. Gevorgyan, L. Navasardyan, A. Trchounian

2020 98-99

https://www.bioicbh.com/abstract-book

Article

ВЛИЯНИЕ РЕНТГЕНОВСКОГО И МИКРОВОЛНОВОГО ИЗЛУЧЕНИЙ НА ДЕЗАМИНИРОВАНИЕ ПУРИНОВЫХ НУКЛЕОТИДОВ В ДРОЖЖЕВЫХ КЛЕТКАХ CANDIDA GUILLIERMONDII НП-4

S. Marutyan, G. Petrosyan, S. Marutyan, L. Navasardyan, A. Trchounian

IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENIY KHIMIYA KHIMICHESKAYA TEKHNOLOGIYA 2019 48-52

Conference

Влияние рентгеновского облучения и микроволн на морфологию дрожжевых клеток C.guilliermondii НП-4

С.В. МАРУТЯН, С.А. МАРУТЯН, Л.А. НАВАСАРДЯН, К.О. ОВНАНЯН

2019 94-97

Conference

Влияние рентгеновского облучения и микроволн на АТФ-азную активность митохондрий дрожжей C.guilliermondii НП-4

Л.А.Навасардян, С.В. Марутян, С.А. Марутян, Г.А.Петросян

2019 97-99

Conference

Влияние микроволнового излучения на рост и ферментативную активность дрожжей Candida guilliermondii НП-4

Марутян С.В., Петросян Г.А., Марутян С.А., Навасардян Л.А., Трчунян А.А.

2018 57

http://cong-2018.biophys.ru/index.php/archive-cong/cong-2018
