

Research Institute of Biology

Basic and Pathological Biochemistry Laboratory

Junior Researcher

Education

Institution	YSU
Faculty	Biology
Date	2017 - 2019
Degree name	Masters

Institution	YSU
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	N°55 school named after A. Chekhov
Period of time	2017 - 2018
Rank/degree	teacher

- molecular biology, radiation biochemistry
-

 Publications

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

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

Article

The antimicrobial effects 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, Karen Trchounian

Scientific Reports 2024 19163

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

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

Article

Ultrastructural investigation of acidocalcisomes and ATPase activity in yeasts *Candida guilliermondii* 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

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

Известия высших учебных заведений. Серия: химия и химическая технология (Izvestiya Vysshikh Uchebnykh Zavedenii, Seriya Khimiya i Khimicheskaya Tekhnologiya)
2019 48-52

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.

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

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

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

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.

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.

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

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

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.

Conference

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

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

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.

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.
