

Susanna Michael Badalyan

Research Institute of Biology

Laboratory of Fungal Biology and Biotechnology

Head of laboratory

☎ 34-29

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Education

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| Institution | Yerevan State University |
| Faculty | Faculty of Biology, Department of Botany |
| Date | 1975 - 1980 |
| Degree name | Qualified specialist |

Scientific Rank/degree

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|--------------------|--------------------------|
| Institution | Yerevan State University |
| Date | 2005 |
| Degree name | Professor |
| Specialty | Biological sciences |

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|--------------------|--------------------------|
| Institution | Yerevan State University |
| Date | 2000 |
| Degree name | Associate professor |
| Specialty | Biological sciences |

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|-----------------------|--|
| Institution | Yerevan State University |
| Date | 1998 |
| Degree name | Doctor |
| Specialty | Biological sciences |
| Research Topic | Biological characteristics of several basidiomycetes macrofungi (morphology, ecology and physiological activity) |

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|------------------------------|--|
| Institution | Yerevan State University |
| Date | 1988 |
| Degree name | Candidate |
| Specialty | Biological sciences |
| Scientific Supervisor | Prof. Melik-Khachatryan J.H. |
| Research Topic | Taxonomy, bio-ecology and physiological activity of <i>Nematoloma fasciculare</i> (Huds. : Fr.) Karst. |

Language skills

Work experience

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| Institution | Yerevan State University |
| Period of time | 2005 - 2024 |
| Rank/degree | Head of Laboratory of Fungal Biology and Biotechnology |

Scientific interests

- Fungal Biology and Biotechnology, medicinal mushrooms
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Publications

Article

Antimicrobial Activity of Three Italian Strains of Morchella esculenta (Ascomycota)

Susanna M. Badalyan, Narine Gharibyan, Mirco Iotti, Alessandra Zambonelli

International Journal of Medicinal Mushrooms 2024 43-55

Article

Antimicrobial Activity of Different Collections of Medicinal Polypore Fungus Fomitopsis pinicola (Agaricomycetes)

Susanna M. Badalyan, Anush Barkhudaryan, Alla V. Shnyreva

International Journal of Medicinal Mushrooms 2024 33-48

Article

Morphological observation and biomass formation in different edible medicinal Morchella collections (Pezizomycetes, Ascomycota)

Susanna M. Badalyan, Narine Gharibyan, Carmelo Gianchino, Mirco Iotti, Alessandra Zambonelli

Italian Journal of Mycology 2023 50-61

Article

Sterols Content of Fruiting Bodies of Medicinal Artist's Bracket Mushroom Ganoderma applanatum (Agaricomycetes) Collected in Armenia

Susanna M. Badalyan, Sergey S. Hayrapetyan

International Journal of Medicinal Mushrooms 2023 65-74

Article

The Potential of Mushrooms in Developing Healthy Food and Biotech Products

Badalyan Susanna, Zambonelli Alessandra

Fungi and Fungal Products in Human Welfare and Biotechnology 2023 307-344

Article

Mushrooms as Promising Therapeutic Resources: Review and Future Perspectives

Susanna M. Badalyan, Sylvie Morel, Anush Barkhudaryan, Sylvie Rapior

Mushrooms with Therapeutic Potentials Recent Advances in Research and Development 2023 1-54

Article

Flammulina velutipes (Curtis) Singer - PHYSALACRIACEAE

Susanna Badalyan, Yusufjon Gafforov, Milena Rašeta, Sylvie Rapior, Manzura Yarasheva

Ethnobiology of Uzbekistan Ethnomedicinal Knowledge of Mountain Communities 2023 1011-1043

Article

Մակրոսկոպիկ սնկերի կիրառման հեռանկարները կոսմետոլոգիայում

Բաղայան Սուսաննա, Ղարիբյան Նարինե

Գավառի պետական համալսարանի գիտական հոդվածների ժողովածու 2023 113-123

Article

Genetic and Morphological Polymorphism in Wood-Decaying Fungi

Badalyan S.M., Vladykina V.D., Zhuykova E.V., Diyarova D.K., Mukhin V.A.

Ecology of Macrofungi An Overview 2023 311-332

Article

BIOMASS FORMATION BY DIFFERENT COLLECTIONS OF PLEUROTUS SPP. DURING SUBMERGED GROWTH

S. M. BADALYAN, N. G. GHARIBYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2023 222-229

Article

Medicinal Macrofungi as Cosmeceuticals: A Review

Badalyan S.M., A. Barkhudaryan, Rapior S.

International Journal of Medicinal Mushrooms 2022 1-13

Article

AGARICOMYCETES MUSHROOMS DISTRIBUTED IN ARMENIA - SOURCE OF COSMETIC BIOINGREDIENTS

Badalyan S.M., Barkhudaryan A.L., Gharibyan N.G.

Proceedings of the YSU B: Chemical and Biological Sciences 2022 74-83.

Article

The phylogenetic analysis of Armenian collections of medicinal tinder polypore Fomes fomentarius (Agaricomycetes, Polyporaceae)

Badalyan S.M., Zhuykova E.V., Mukhin V.A.

Italian Journal of Mycology 2022 23-33

Monograph

Fungal biotechnology: Prospects and Avenues

Susanna M. Badalyan, Sunil K. Deshmukh, Kandikere R. Sridhar

2022 450

Article

The Cardioprotective Properties of Agaricomycetes Mushrooms Growing in the Territory of Armenia: Review

Susanna M. Badalyan, Barkhudaryan Anush, Sylvie Rapior

International Journal of Medicinal Mushrooms 2021 21-31

Article

The Neurotrophic and Neuroprotective Potential of Macrofungi

Susanna M. Badalyan, Sylvie Rapior

Medicinal Herbs and Fungi 2021 37-79

Article

Agaricomycetes mushrooms (Basidiomycota) as potential neuroprotectants.

Susanna M. Badalyan, Sylvie Rapior

Italian Journal of Mycology 2021 30-43

Article

Medicinal Coprinoid Mushrooms (Agaricomycetes) Distributed in Armenia (Review).

Susanna M. Badalyan

International Journal of Medicinal Mushrooms 2020 257 - 267

Article

Notes on Medicinal Polypore Species from the Genus Daedaleopsis (Agaricomycetes), Distributed in the Asian Part of Russia

Susanna M. Badalyan, Viktoria D. Vladykina, Victor A. Mukhin, Elena V. Zhuykova

International Journal of Medicinal Mushrooms 2020 775-780

Article

Pharmacological Properties and Resource Value of Hymenochaetoid Fungi (Agaricomycetes) Distributed in Armenia: Review.

Susanna M. Badalyan, Narine Gharibyan

International Journal of Medicinal Mushrooms 2020 1135 - 1146

Article

Perspectives of Biomedical Application of Macrofungi

Susanna M. Badalyan, Sylvie Rapior

Current Trends in Biomedical Engineering & Biosciences 2020 00136-00139

Article

Agaricomycetes medicinal mushrooms with potential neuroprotective activity growing in Armenia

Susanna M. Badalyan, Sylvie Rapior

Proceedings of the YSU B: Chemical and Biological Sciences 2020 196-203

Article

The Role of Fungal Culture Collections and Databases to Study and Preserve Mycobiodiversity

Badalyan S. M., Gharibyan N. G.

Информационные технологии в исследовании биоразнообразия 2020 45-47

Article

О формировании базы данных Fomes fomentarius на Урале

Жуйкова Е. В., Мухин В. А., Бадалян С. М.

Информационные технологии в исследовании биоразнообразия 2020 210-212

Article

Daedaleopsis Genus in Siberia and the Far East of Russia

Badalyan S.M., Vladykina V.D., Mukhin V.A.

Article

Morphological and ecological screening of different collections of medicinal white-rot bracket fungus *Ganoderma adspersum* (Schulzer) Donk (Agaricomycetes, Polyporales)

Badalyan S.M., Gharibyan N.G., M. Iotti, A. Zambonelli

Italian Journal of Mycology 2019 1-15

Article

Analysis of Intraspecies Genetic Variability among Collections of Medicinal Red Belt Conk Mushroom, *Fomitopsis pinicola* (Agaricomycetes)

Badalyan S.M., Shnyreva A.V., Shnyreva A.A.

International Journal of Medicinal Mushrooms 2019 291-300

Article

The diversity and distribution of edible and medicinal mushrooms from Mazandaran province of northern Iran

Badalyan SM, A. Borhani

Proceedings of the YSU B: Chemical and Biological Sciences 2019 33-41

Article

Morphological and growth characteristics of mycelial collections of medicinal xylotrophic mushrooms (Agaricomycetes) distributed forests in northern of Iran

Badalyan S.M., A. Borhani

Proceedings of the YSU B: Chemical and Biological Sciences 2019 97-106

Article

The morphological observation of mycelia of several Armenian strains of medicinal bracket fungus *Fomes fomentarius* (L.) Fr. (Polyporales, Agaricomycetes)

Badalyan S.M., Shahbazyan T.A., Gharibyan N.G.

Proceedings of the YSU B: Chemical and Biological Sciences 2019 91-96

Article

Medicinal, Nutritional and Cosmetic Values of Macrofungi Distributed in Mazandaran Province of Northern Iran. Review.

Susanna M. Badalyan, Ali Borhani

International Journal of Medicinal Mushrooms 2019 1099 -1106

Article

Исследование антифунгальной активности мицелия некоторых штаммов лекарственного трутового гриба *Trametes versicolor* (L.) Lloyd в совместной культуре. Москва, Россия

Бадалян С.М., Шахбазян Т.А., Гарибян Н.Г

Успехи медицинской микологии 2019 387-390

Monograph

Recent progress in research on the pharmacological potential of mushrooms and prospects for their clinical application.

Badalyan SM, Barkhudaryan A, Rapior S

2019 70

Monograph

Biotechnological exploitation of macrofungi for the production of food, pharmaceuticals and cosmeceuticals

Badalyan SM, A. Zambonelli

2019 31

Article

Genetic Variability of the Medicinal Tinder Bracket Polypore, *Fomes fomentarius* (Agaricomycetes), from the Asian Part of Russia

Victor A. Mukhin, Elena V. Zhuykova, Susanna M. Badalyan

International Journal of Medicinal Mushrooms 2018 561–568

Article

Morphological Characteristics of Monokaryotic and Dikaryotic Collections of Three Medicinal *Coprinellus* Species (Agaricomycetes)

Susanna M. Badalyan

International Journal of Medicinal Mushrooms 2018 665–676

Monograph

**ՏԱՐԲԵՐ ՄԼԿԱՅԻՆ ԿՈՒՆՏՈՒՐԱԼԵՐԻ ՄԻՑԵԼԻՈՒՄԻ ԿԱՌՈՒՑՎԱԾՔԱՅԻՆ ԱՌԱՆՁՆԱՀԱՏԿՈՒԹՅՈՒՆՆԵՐԸ
հայ./անգլ.**

Բաղայան ՍՄ, Ղարիբյան ՆԳ

2017 174

Monograph

Making use of genomic information to explore the biotechnological potential of medicinal mushrooms

Kües U, Badalyan SM

2017 397-437

Article

Diversity of Polypore Bracket Mushrooms, Polyporales (Agaricomycetes), Recorded in Armenia and Their Medicinal Properties

Badalyan SM, Gharibyan NG

International Journal of Medicinal Mushrooms 2016 347-354

<http://www.begellhouse.com/journals/medicinal-mushrooms.html>

Article

Fatty acid composition of different collections of coprinoid mushrooms (Agaricomycetes) and their nutritional and medicinal values

Susanna M. Badalyan

International Journal of Medicinal Mushrooms 2016 883-893

<http://www.begellhouse.com/journals/medicinal-mushrooms.html>

Monograph

Asexual sporulation in Agaricomycetes. The Mycota. Growth, Differentiation and Sexuality

Badalyan SM, Kües U., Gießler A., Dörnte B.

2016 59

Article

Genetic resources and mycelial characteristics of several medicinal polypore mushrooms (Polyporales, Basidiomycetes).

Badalyan SM, A.V. Shnyreva, M. Iotti, A. Zambonelli

International Journal of Medicinal Mushrooms 2015 371-384

<http://www.begellhouse.com/journals/medicinal-mushrooms.html>

Article

Biochemical characterization, antioxidant and antiproliferative activities of different Ganoderma collections

Saltarelli R., P. Ceccaroli, M. Buffalini, L. Vallorani, L. Casadei, A. Zambonelli, M. Iotti, Badalyan SM,

V. Stocchi

Journal of Molecular Microbiology and Biotechnology 2015 16-25

<https://www.karger.com/Journal/Home/228391>

Conference

Antifungal activity of different Trametes collections against potentially pathogenic filamentous fungi.

Badalyan SM, Shahbazyan TA

Conference

Chemical composition of mycelia of different collections of coprinoid mushrooms.

Badalyan SM

Conference

Morphological characteristics of vegetative mycelia and anamorphs in different collections of xylotrophic basidiomycetous mushrooms

Badalyan SM, Kues U

Conference

Характеристика биологически активных экстрактов трутовых грибов.

Шнырева АВ, Бадалян С.М

Conference

Лекарственные свойства двух полипоровых видов: Fomes fomentarius и Fomitopsis pinicola.

Бадалян С.М, Шахбазян Т.А.

Conference

Протеолитическая и молокосвертывающая активность мицелия некоторых полипоровых грибов.

Бадалян С.М, Гарибян Н.Г.

Conference

Distribution of polypore bracket fungi in Armenia and their medicinal potential

Badalyan SM, Gharibyan NG

Conference

Antifungal activity of different Trametes collections against potentially pathogenic filamentous fungi.

Badalyan SM

Conference

Антифунгальная активность некоторых армянских штаммов *Fomes fomentarius* в отношении потенциально патогенных для человека и животных микромицетов.
Бадалян С.М., Гарибян Н.Г., Шахбазян Т.А.

Conference

МОЛОКОСВЕРТЫВАЮЩАЯ И ТРОМБОЛИТИЧЕСКАЯ АКТИВНОСТЬ МИЦЕЛИЯ ОКАЙМЛЕННОГО ТРУТОВИКА *FOMITOPSIS PINICOLA*
Бадалян С.М., Гарибян Н.Г., Шахбазян Т.А., Шнырева А.В.

Conference

Asexual spores as means for de-dikaryotization of mycelia
Badalyan SM, Khonsuntia W, Subba S, Mandira Sen M, U. Kües

Conference

Антифитопатогенная активность мицелия полипоровых грибов (*Agaricomycetes, Polyporales*).
Бадалян С.М., Гарибян Н.Г.

Conference

Внутривидовое генетическое разнообразие природных штаммов лекарственного трутовика окаймленного, *Fomitopsis pinicola*
Шнырева А.В., Шнырева А.А., Бадалян С.М.

Conference

СИНТЕЗ И БИОЛОГИЧЕСКАЯ АКТИВНОСТЬ НЕКОТОРЫХ ПРОИЗВОДНЫХ 1,2,4- И 1,2,3-ТРИАЗОЛОВ
А.С. Галстян, Т.В. Кочикян, И.Л. Базукян, С.М. Бадалян, Т.А. Шахбазян

Conference

Asexual sporulation in *Agaricomycetes* - distribution among species, modes of mitospore generation, spore functions and genetic consequences
S.M. Badalyan, U. Kües, W. Khonsuntia, B. Dörnte

Conference

Antifungal activity of mycelia of medicinal mushrooms *Fomes fomentarius* and *Fomitopsis pinicola* (*Agaricomycetes, Polyporales*) against potentially pathogenic for humans and animals keratinophilic fungi
Badalyan S.M., T.A. Shahbazyan, V.A. Mukhin

Conference

Proteolytic/thrombolytic effect of mycelia of medicinal mushroom *Fomitopsis pinicola* (*Agaricomycetes, Polyporales*)
Badalyan S.M., Shahbazyan T.A., Shnyreva A., Zambonelli A.

Conference

Biological potential of medicinal mushrooms to develop pharmaceuticals and other healthcare biotech products

Badalyan S., Gharibyan N.

Conference

Исследование антифунгальной активности мицелия некоторых штаммов лекарственного трутового гриба *Trametes versicolor* (L.) Lloyd в совместной культуре
Бадалян С.М., Шахбазян Т.А., Гарибян Н.Г.

Conference

Mushrooms as valuable source of organic cosmetic ingredients
Susanna M. Badalyan

Conference

In Vitro Antibacterial Activity of Mycelia of Several Medicinal Trametes Species (Polyporales, Agaricomycetes).
Susanna M. Badalyan, Shahbazyan T.A., Gharibyan N.G.

Conference

Probing life cycles of some lignicolous coprinellus species in the laboratory
Susanna Badalyan, Kües Ursula, Lakkireddy K., Subba S., Khonsuntia W.

Conference

Материалы III Национальной конференции с международным участием
Владыкина В. Д., Мухин В. А., Бадалян С. М.

Conference

THE ROLE OF FUNGAL CULTURE COLLECTIONS AND DATABASES TO STUDY AND PRESERVE MYCOBIODIVERSITY
Badalyan S. M., Gharibyan N. G.

Conference

О ФОРМИРОВАНИИ БАЗЫ ДАННЫХ FOMES FOMENTARIUS НА УРАЛЕ
Жуйкова Е.В, Мухин В.А., Бадалян С.М.

Conference

Medicinal Hymenochaetales mushrooms (Agaricomycetes) distributed in Armenia
Badalyan SM, Gharibyan N.G.

Conference

Morphological features of dikaryons of Coprinellus species
Badalyan SM, W. Khonsuntia, S. Subba, K. Lakkireddy, U. Kües

Conference

ИССЛЕДОВАНИЕ АНТИФУНГАЛЬНОЙ АКТИВНОСТИ МИЦЕЛИЯ ЩЕТИНИСТОВОЛОСОГО ТРУТОВИКА *INONOTUS HISPIDUS*
Бадалян С.М, Гарибян Н.Г

Conference

Chlamydospores in the life cycle of Agaricomycetes fungi
Susanna Badalyan, Ursula Kües

Conference

Antiviral potential of *G. adpersum* crude extract and pharmacological properties of its butanol fraction

Badalyan SM, Hamrouni S, Kües U, Dogan HH, Sbissi I, Trigui M, Zouari Bouassida K

Conference

Knowledge on the biomedical and cosmetic usage of macrofungi

Susanna M. Badalyan, Françoise Fons, Morel Sylvie, Luis Portillo-Lemus, Sylvie Rapior

Conference

Морфо-экологические особенности мицелия некоторых лекарственных гименохетоидных грибов

Бадалян С.М., Гарибян Н.Г.

Conference

Исследование антифунгальной активности мицелия армянской коллекции полипорового гриба *Fomesinzengeae* (*Agaricomycetes*) в отношении дерматофитов

Бадалян С.М., Гарибян Н.Г., Гаспарян А.К.

Conference

Asexual sporulation in the life cycle of *Agaricomycetes* fungi

Susanna M. Badalyan

Conference

Therapeutic Potential of *Ganoderma* Species: Traditional Medicine and Evidence of Effectiveness

S. M. Badalyan, S. Morel, S. Rapior, F. Fons

Conference

Recent Advances in Biotechnological and Biomedical Research of Macrofungi

S. M. Badalyan, S. Rapior, A. Zambonelli
