Susanna Michael Badalyan

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Laboratory of Fungal Biology and Biotechnology
head of laboratory

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Chair of Botany and Mycology
Lecturer on an hourly basis

34-29
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Education

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

Scientific Rank/degree

Institution	Yerevan State University
Date	2005
Degree name	Professor

Institution	Yerevan State University
Date	2000
Degree name	Associate professor

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

Institution	Yerevan State University
Date	1988
Degree name	Candidate
Scientific Supervisor	Prof. Melik-Khachatryan J.H.

Research Topic	Taxonomy, bio-ecology and physiological activity of Nematoloma fasciculare (Huds. : Fr.) Karst.

Language skills

English Русский Français

Work experience

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

Publications

Article

The Resource Potential of Mushrooms – A Review
Susanna Badalyan, Mirco Iotti, Alessandra Zambonelli

Mycological Spectrum 2026 1-17

Article

Ecology and Genetics in Asexual Sporulation in Agaricomycetes
Susanna M. Badalyan, Kües Ursula, Subba Shanta, Kapli Hari, Khonsuntia Weeradej, Ullah Irfan,

Winkler Marco

The Mycota, Growth, Differentiation and Sexuality, Springer Nature Switzerland, J. Wendland (ed.) 2026

241-336

https://link.springer.com/chapter/10.1007/978-3-032-15548-1_11

Article

The eco-geographical and phylogenetic analysis of Fomes fomentarius sensu lato (Polyporales, Agaricomycetes) in Armenia
Susanna M Badalyan, Elena V Zhuykova, Victor A Mukhin

Italian Journal of Mycology 2026 8-23

https://italianmycology.unibo.it/article/view/22982

Article

Fatty Acid Profile of Fomes inzengae (Agaricomycetes) Basidiocarps Collected in Armenia
Susanna Badalyan, Narine Gharibyan, Anush Barkhudaryan, Sergei Hayrapetyan

International Journal of Medicinal Mushrooms 2026 77-88

Article

Anticancer and Cardioprotective Properties of Medicinal Mushrooms: Current Evidence and Future Prospects
Susanna Badalyan, Sylvie Rapior, Anush Barkhudaryan

New Zealand Journal of Botany 2026 e70154

https://rsnz.onlinelibrary.wiley.com/doi/10.1002/nzb2.70154

Article

ИССЛЕДОВАНИЕ АНТИБАКТЕРИАЛЬНОЙ АКТИВНОСТИ НЕКОТОРЫХ ШТАММОВ СЕРНО-ЖЕЛТОГО ТРУТОВИКА LAETIPORUS SULPHUREUS АРМЯНСКОГО ПРОИСХОЖДЕНИЯ

Бадалян С.М., Гарибян Н.Г,, Бархударян А.Л.

Современная микология в России 2026 551-552

https://www.mycology.ru/congress/2026/CMR12.pdf

Conference

ОСОБЕННОСТИ НАКОПЛЕНИЯ МИЦЕЛИАЛЬНОЙ БИОМАССЫ АРМЯНСКИМИ ШТАММАМИ FOMES INZENGAE (POLYPORACEAE, AGARICOMYCETES)

Бадалян С.М., Арстамян С.С., Гарибян Н.Г.

2025 278-280

https://www.elibrary.ru/item.asp?id=82729896

Conference

ИССЛЕДОВАНИЕ АНТИБАКТЕРИАЛЬНОЙ АКТИВНОСТИ МИЦЕЛИЯ ТРУТОВЫХ ГРИБОВ FOMES FOMENTARIUS S.S. И F. INZENGAE (POLYPORALES, AGARICOMYCETES)

Гарибян Н.Г., Бархударян А.Л., Бадалян С.М.

2025 318-322

https://www.mycology.ru/congress/2025/abstracts.php

Conference

The Perspectives of Usage of Mushrooms in Nanomedicine

Susanna M. Badalyan

2025 95 - 95

Conference

The Collections of Medicinal Mushrooms of the Yerevan State University

Susanna Badalyan, Narine Gharibyan

2025 97-97

Conference

The Potential of Mushrooms to Develop Healthy Food and Biotech Products

Susanna Badalyan, Mirco Iotti, Alessandra Zambonelli

2025 94-94

Conference

Medicinal Mushrooms as a Protective Strategy Against Doxorubicin-Induced Cardiotoxicity

Susanna Badalyan, Sylvie Rapior, Anush Barkhudaryan

2025 96-96

Conference

Xylotrophic Fungi as A Biotic Factor in Biological Combustion of Woody Debris

Victor A. Mukhin, Susanna M. Badalyan, Daria K. Diyarova, Elena V. Zhuykova

2025 77-77

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

Conference

Морфо-экологические особенности мицелия некоторых лекарственных гименохетоидных грибов
Бадалян С.М., Гарибян Н.Г.

2024 322

http://www.mycology.ru

Conference

Исследование антифунгальной активности мицелия армянской коллекции полипорового гриба Fomesinzengae (Agaricomycetes) в отношении дерматофитов
Бадалян С.М., Гарибян Н.Г., Гаспарян А.К.

2024 20-22

http://www.mycosis.org

Conference

Therapeutic Potential of Ganoderma Species: Traditional Medicine and Evidence of Effectiveness
S. M. Badalyan, S. Morel, S. Rapior, F. Fons

2024 151-152

https://www.immc12.com/scientific-committee.html

Conference

Recent Advances in Biotechnological and Biomedical Research of Macrofungi
S. M. Badalyan, S. Rapior, A. Zambonelli

2024 109-110

https://www.immc12.com/scientific-committee.html

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

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

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

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

Մակրոսկոպիկ սնկերի կիրառման հեռանկարները կոսմետոլոգիայում
Բադալյան Սուսաննա, Ղարիբյան Նարինե

Գավառի պետական համալսարանի գիտական հոդվածների ժողովածու 2023 113-123

Conference

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

2023 171-173

http://www.mycology.ru/congress/2023/abstracts.php

Conference

Knowledge on the biomedical and cosmetic usage of macrofungi
Susanna M. Badalyan, Françoise Fons, Morel Sylvie, Luis Portillo-Lemus, Sylvie Rapior

2023 1

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Conference

Asexual sporulation in the life cycle of Agaricomycetes fungi
Susanna M. Badalyan
2023 27 - 27

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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

Conference

Chlamydospores in the life cycle of Agaricomycetes fungi

Susanna Badalyan, Ursula Kües

2022 61

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Conference

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

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

2022 67

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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

Conference

Morphological features of dikaryons of Coprinellus species

Badalyan SM, W. Khonsuntia, S. Subba, K. Lakkireddy, U. Kües

2021 -

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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.

ARPHA Proceedings 2020 17-26

Conference

Mushrooms as valuable sourse of organic cosmetic ingredients

Susanna M. Badalyan

2020 13

https://cosmetology.surgeryconferences.com/

Conference

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

2020 130-131

https://insma.urfu.ru/conf/itbio

Conference

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

2020 45-46

https://insma.urfu.ru/conf/itbio

Conference

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

2020 210-212

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Conference

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

2020 35-36

https://www.facebook.com/icbh2020/

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 northernof 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

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.

2019 387-390

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Conference

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

2019 290

http://www.immc10.com/?page=%2Fevent%2F1901043

Conference

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

2019 34-35

https://www.sciencedz.net/en/conference/53134-mbf2019-molecular-biology-of-fung...

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

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

2018 127-128

http://9th-wsmbmp.csp.escience.cn/dct/page/65540

Conference

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

2018 128-129

http://9th-wsmbmp.csp.escience.cn/dct/page/65540

Conference

Biological potential of medicinal mushrooms to develop pharmaceuticals and other healthcare biotech products
Badalyan S., Gharibyan N.

2018 16-17

http://pharmconf2018.ysu.am/web/indexeng.html#parentVerticalTab4

Conference

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

2017 207-208

Conference

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

2017 32-33

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

2017 24

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

2017 158-159

https://iris.unipa.it/handle/10447/278107#.XSuBwj8zboK

Monograph

ՏԱՐԲԵՐ ՍՆԿԱՅԻՆ ԿՈՒԼՏՈՒՐԱՆԵՐԻ ՄԻՑԵԼԻՈՒՄԻ ԿԱՌՈՒՑՎԱԾՔԱՅԻՆ ԱՌԱՆՁՆԱՀԱՏԿՈՒԹՅՈՒՆՆԵՐԸ հայ./անգլ.
Բադալյան 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

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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

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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.

2016 106-109

Conference

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

2016 239-243

Conference

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

2016 494

http://www.isms2016.com

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

2015 180-181

http://www.ismm2013.com/7-2.html

Conference

Chemical composition of mycelia of different collections of coprinoid mushrooms.
Badalyan SM

2015 297-299

Conference

Morphological characteristics of vegetative mycelia and anamorphs in different collections of xylotrophic basidiomycetous mushrooms
Badalyan SM, Kues U

2015 300-302

Conference

Характеристика биологически активных экстрактов трутовых грибов.
Бадалян С.М, Шнырева АВ

2015 356-357

Conference

Лекарственные свойства двух полипоровых видов: Fomes fomentarius и Fomitopsis pinicola.
Бадалян С.М, Шахбазян Т.А.

2015 277-279

Conference

Протеолитическая и молокосвертывающая активность мицелия некоторых полипоровых грибов.
Бадалян С.М, Гарибян Н.Г.

2015 275-277

Conference

Distribution of polypore bracket fungi in Armenia and their medicinal potential
Badalyan SM, Gharibyan NG

2015 98-99

Conference

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

Badalyan SM

2015 180-181
