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| **Meysam Taghinasab****Ph.D. Plant-Microbe Interaction**

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| Taghinasab@hotmail.com |
| teaching experienceFruit trees diseasesGeneral BiochemistryGeneral Microbiology |

A gold trophy with a star and a green branch  Description automatically generatedAWARDOpen Innovation Prize,(Cooperathon)Dobson AwardMitacs Elevated ProgramPhD stipend of the JLU, Giessen, GermanyImage result for researchgate logo<https://www.researchgate.net/profile/Meysam_Taghinasab>www.linkedin.com/in/meysam-taghinasab-893374119 |

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| **Experience****2022-Now, CO-FOUNDER of BioSam Inc.****MONTREAL, CANADA**Remaking Crop Nutrition by Endophytes **2022- 2025, ENTREPRENEUR at DSTRICT 3 INNOVATION****MONTREAL, CANADA**Biotechnology**2021- 2023, GUEST SCIENTIST****BIOLOGY; MONTREAL UNIVERSITY****MONTREAL, CANADA**Project: Mycoremediation of hazardous-chemical contamination from arable land2021- 2023, Postdoc FELLOWBiology, Concordia UniversityMontreal, CanadaProject: Development of plant biostimulant product by novel microbial endophytes2020- 2021, Postdoc scholarPlant science, McGill UniversityMontreal, CanadaProject: The next generation agriculture: Role of functional microbiome in cannabis breeding strategies against biotic stress2014 – 2019, Scientific Researcher Phytopathology, Justus-Liebig University, Giessen, GermanyProject: Function and diversity of fungal root endophyte in grassland under elevated temperature and CO2 regimes**2004 – 2014, Lecturer and Scientific Researcher, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran**Projects: Focused on evaluation the effect of *Trichoderma* and *Bacillus* species on biocontrol of plant diseases.  |
| A black background with a black square  Description automatically generated with medium confidenceEducation2014 - 2019 PhD, Plant-Microbe interactionJUSTUS-LIEBIG-UNIVERSITY Giessen; GermanyThesis: Function and diversity of fungal root endophyte in grassland under elevated temperature and CO2 regimes2002 – 2004 M.SC, PHYTOPATHOLOGYBU-ALI SINA UNIVERSITYHamadan; Iran Thesis: Antagonistic activity assessment of *Bacillus subtilis* against cucumber damping off caused by *Pythium ultimum* Trow in the west of Iran1998 – 2002 B.Sc, PLANT PROTECTIONSARI UNIVERSITY OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES Sari; IranThesis: *Tritirachium roseum*, a new form-genus and species for mycoflora of Iran |

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**PATENTS**

* **Title:** *Compositions and Methods for Enhancing Plant Growth*
**Application Number:** PCT/CA2024/051604
**Filing Date:** November 29, 2024
**Status:** International Patent Application (PCT)
**Applicant:** BioSam Inc.
**Role:** Lead Inventor
* **Title:** *Bacterial and Fungal Assemblage for Use in Agriculture*
**Application Number:** PCT/CA2025/050585
**Filing Date:** April 23, 2025
**Status:** International Patent Application (PCT)
**Applicant:** BioSam Inc.
**Role:** Lead Inventor

**PUBLICATIONS**

* Taghinasab, M. and Jabaji, S. (2020) Cannabis microbiome and the role of endophytes in modulating the production of secondary metabolites: an overview. Microorganisms 2020, 8, 355.
* Taghinasab, M. (2019) Function and diversity of root fungal endophytes in grassland under elevated temperature and CO2 regimes Giessen: VVB Laufersweiler Verlag Dissertation (http://geb.uni-giessen.de/geb/volltexte/2021/15609/)
* Taghinasab, M. Imani, J. Steffens, D. Glaeser, S. P. Kogel, K. H. (2018) Root fungal endophytes *Trametes versicolor* and *Piriformospora indica* increase P uptake in wheat. Plant Soil, doi: 10.1007/s11104018-3624-7.
* Abdollahi, S. Nasrollahnejad, S. Jafari, M. Yazdanian, M.Taghinasab, M. (2016) Evaluation of protein and total phenolics changes in susceptible and resistant varieties of tobacco (*Nicotiana tabacum*) leaves infected by PVY. International Journal of Plant Production. 22(3):129-153.
* Habibi, R. Rahnama, K. Taghinasab, M. (2015) Evaluating the effectiveness of native *Trichoderma* species in production of extracellular enzymes during interaction with plant pathogenic fungus *Fusarium* *oxysporum*. Applied Research in Plant Protection. 4(2) 73-85.
* Ahsani, H. Nasrollahnejad, S. Rahimian, H. Zohour, E. Taghinasab, M. (2015) Study of phenotypic characteristics and genetic diversity of *Pseudomonas syringae* pv. *syringae*, the causal agent of almond bacterial canker in Khorasan Razavi province using BOX-PCR. Research in Plant Pathology. 3 (1): 1-13.
* Gonbadi, A. Nasrollanejad, S. Taghinasab, M. Zinati Fakhrabad, F. (2015) Molecular study on isolate of zucchini yellow mosaic virus based on coat protein genome alignment in Golestan province. International Journal of AgriScience. 5 (1): 6-11.
* Kariman, F. Nasrollahnejad, S. Rahnama, K.Taghinasab, M. Ahmadikhah, A. (2014) Assessment of mycelial compatibility of *Sclerotinia sclerotiorum* isolates, causal agent of canola stem white rot and evaluation of their genetic diversity using RAPD marker. Modern Genetic Journal. 9: 21-30.
* Taghinasab, M.(2012) Effect of some *Trichoderma* spp. isolates on promoting growth of cucumber seedlings under greenhouse conditions. J. Sci. & Technol. Greenhouse Culture. 3 (11). 85-92.
* Mohammadi Varmazyar, M. Kavoosi, M.R. Taghinasab, M. (2012) Biological control of the semiparasitic plant *Loranthus grewinkii* using bacterial agents *Brenneria quercina*, *Pectobacterium atrosepticum* and *Dickeya chrysanthemi* various geographical directions of forests of Ilam (Gachanarea). Minerva Biotecnologica. 24(1):17-21.
* Alimi, M. Soleimani, M. J.Taghinasab, M. (2012) Characterization and application of microbial antagonists for control of Fusarium head blight of wheat caused by *Fusarium graminearum* using single and mixture strain of antagonistic bacteria on resistance and susceptible cultivars. African journal of microbiology research. 6 (2): 326-334.
* Zitati-Fakhrabad, F. Nasrollahnejad, S. Ahmadikhah, A. Taghinasab, M. (2012) Sequencing of three isolates and prevalence of potato virus Y in tobacco fields of Golestan province, and phylogenetic comparison of the Iranian and world isolates of the virus. Iranian Journal of Plant Pathology. 48 (3): 417-421.
* Taghinasab, M. & Karimi, E. (2012) Susceptible plants to soft sot causal bacteria in Iran. Plant Pathology Science. 1(2): 53-63
* Mahmoudi, H. Rahnama, K. Rahimian, H. Nasrollahnejad, S. Taghinasab, M. (2011) Investigation on causal and associated agents with bacterial canker stone fruit trees in Golestan province. Journal of Plant Production. 18 (4): 1-18.
* Alimi, M. Rahimian, H. Hassanzadeh, N.Taghinasab, M. Ahmadikhah, A. Heydari, A. Balestra, G. M. (2011) First detection of *Pseudomonas viridiflava*, the causal agent of blossom blight in apple by using specific designed primers. African Journal of Microbiology Research. 5 (26): 4708-4713.
* Araghi, M. Rahnama, K. Taghinasab, M. (2009) The evaluation of biological control potential of *Ophiostoma* *novo-ulmi*, causal agent of Dutch Elm Disease by *Bacillus subtilis* in vitro. Journal of Agricultural Sciences and Natural Resources. 16(1): 174-180
* Araghi, M. Rahnama, K.Taghinasab, M. (2009) A survey on biocontrol of *Rhizoctonia solani* Kuhn damping-off of tomato with *Bacillus subtilis*. Journal of Plant Production. 16(3): 178-191.
* Araghi, M. Rahnama, K. Zafari, D.Taghinasab M. (2008) Investigating biological control of *Ophiostoma* *novo-ulmi*, causal agent of Dutch Elm disease by *Trichoderma harzianum* and *T. virens* in vitro. J. Agric. Sci. Natur. Resour. 14(5): 178-191
* Taghinasab, M. ruhani, H. Karimi, E. (2007) Evaluation of antagonistic activity of *Bacillus subtilis* isolates on *Pythium ultimum* causal agent of cucumber damping-off. Journal of Agricultural Sciences and Natural Resources. 14: 82-91
* Karimi, E. Rouhani, H. Zafari, D. Khodakaramian, Gh. Taghinasab, M. (2007) Biological control of vascular wilt disease of carnation caused by *Fusarium oxysporum* f.sp. *dianthi* by *Bacillus* and *Pseudomonas* strains isolated from rhizosphere of carnation. Journal of Sciences and Technology of Agriculture and Natural Resources. 11 (41) 320- 320.

**Abstracts Presented at Meeting and Congresses**

* Taghinasab, M., Glaeser, S. P., Imani J., Hardt, M., Moser, G., Müller, C., Kogel, K.- H. (2016) Root endophytic Basidiomycetes isolates from permanent grassland harbour Mollicutes-related endobacteria and promote wheat growth. Annual conference of general and applied microbiology. P, 251. (Poster).
* Taghinasab, M. Haghighi, H. Imani, J. Hardt, M. Moser, G. Müller, C. Kämpfer, P. Glaeser, S. P. Kogel, K.- H. (2016) Endomycotic-bacteria associated with two plant endophytic basidiomycetes, *Trametes* sp. and *Stereum* sp. from Giessen permanent grassland. Deutsche Phytomedizinische Geselleschaft. Gießen (Poster).
* Taghinasab, M. Haghighi, H. Imani, J. Hardt, M. Moser, G. Müller, C. Kämpfer, P. Glaeser, S. P. Kogel, K.- H. (2016) Plant endophytic basidiomycetes *Trametes* sp. isolated from Giessen permanent grassland, harbour endomycotic-bacteria and promote wheat growth. 9th Annual GGL Conference, Giessen. (Lecture)
* Taghinasab, M. Glaeser, P. Moser, G. Muller, C. Imani, J. Kogel, K. H. (2015) Culturable endophytic fungi dominate the roots of two selected plants in permanent grassland of GiFACE. Annual conference of general and applied microbiology. P, 231. (Poster).
* Ahsani, H. Nasrollah-nejad, S. Rahimian, H. Zohour, E. and Taghinasab-Darzi, M. (2012) Phenotypic and genotypic characteristics of the causal agent of almond bacterial canker in Khorasan-Razavi province. 20th Iranian Plant Protection Congress, p. 594. Shiraz, Iran. (Poster).
* Alimi, M. Taghinasab, M. and Ahmadikhah, A. (2012). Design of specific primer for *Pseudomonas* *viridiflava*. 20th Iranian Plant Protection Congress, p. 617. Shiraz, Iran. (Poster).
* Alimi, M.Rahimian, H. Hasanzadeh, N. Heydari, A. Taghinasab-Darzi, M. and Mariano Balestra, G. (2012). Study on identification and distribution of bacterial blast of citrus in eastern Mazandaran and Golestan provinces. 20th Iranian Plant Protection Congress, p. 619. Shiraz, Iran. (Poster).
* Alimi, M.Rahimian, H. Hasanzadeh, N. Heydari, A. Taghinasab-Darzi, M. and Mariano Balestra, G. (2012) First isolation and identification of three species *Stenotrophomonas maltipholia*, *S. rhizophila* and *Alcaligenes faecalis* from citrus trees in relation with bacterial blast of citrus. 20th Iranian Plant Protection Congress, p. 561. Shiraz, Iran. (Poster)
* Mahmoudi, H. Rahnama, k. Rahimian, H. Nasrollah-nejad, S. and Taghinasab, M. (2012). Isolation and identification Ice nucleation-active bacteria on stone fruit tree in Golestan Province. 20th Iranian Plant Protection Congress, Shiraz, Iran. (Poster)
* Mamashly, M. Nasrollah-nejad, S. Rahimian, H. & Taghinasab, M. (2012) Study the causal agents of potato soft rot and black leg disease in the fields of Golestan province. The first national congress of monitoring and forecasting in plant protection. P 167. Bojnourd, Iran. (Poster)
* Zinaty, F. Nasrollah-nejad, S. Ahmadikhah, A. Taghinasab, M. (2011). Identification of potato virus Y (PVY) by RT-PCR method in tobacco fields of Golestan province. The 7th National Biotechnology Congress of Iran. Tehran. (Lecture).
* Norouzi, Z. Rahnama, K., Rabbani nasab, H. and Taghinasab, M. (2011). Comparison study at effects of two *Bacillus* spp. isolates on stem length of melon in interaction with melon fusarium wilt agent in greenhouse condition. 1st national conference of melon production and processing. Torbate-jam, Iran.
* Arabkhani, M, Mahmoudi, H A. Taghinasab, M. and Rahnama, k. (2009). Investigation of genetic diversity of stone fruit trees bacterial canker causal agent by ERIC-PCR in Khorasan province, The 6th National Biotechnology Congress of Iran. Tehran. (Lecture).
* Zinaty, F. Nasrollah-nejad, S. Ahmadikhah, A. Taghinasab, M. (2009). Detection of potato virus Y strains by serological methods in tobacco fields of Golestan province. 5th national Conference on new Ideas in Agriculture. (Poster)
* Mahmoudi, H, Arabkhani, M, A. Taghinasab, M. and Rahnama, K. (2009). Identification of stone fruit tree bacterial canker agent with amplification 16s-23s rDNA spacer region (ITS). The 6th National Biotechnology Congress of Iran. Tehran. (Lecture).
* Alimi, M. Taghinasab, M. Motaki, S. and Rahimian, H. (2008). Investigation on cotton seed associated bacteria from cotton-gin factories in Golestan province. 18th Iranian Plant Protection Congress. P: 447. (Poster).
* Iragi, M. Mostafa, M. Rahnama, K. and Taghinasab, M. (2008) Evaluation of antagonistic activity of *Bacillus* *subtilis* isolates on *Ophiostoma novo-ulmi*, causal agent of Dutch elm disease in vitro. 18th Iranian Plant Protection Congress. P: 326. (Poster).
* Kalte, M. Taghinasab, M. Chupani, S. (2008) Occurrence of ash tree leaf spot in Bandar-Turkman. 18th Iranian Plant Protection Congress. P. 66. (Poster).
* Karimi, E. Taghinasab, M. Rahimian, H. (2008) Isolation of *Bacillus* sp. From bacterial leaf spot of *Ficus* *elastica* from Hamedan province. 18th Iranian Plant Protection Congress. P: 387. (Poster).
* khademloo, E. Taghinasab, M. Rahimian, H (2006) Identification of *Dickeya* sp. Causal agent of rice crown and stalk rot in mazandaran province, 17thIranian plant protection congress. (Poster).
* Khademlou, E. Barzegar, A. Rahimian, H. Taghinasab, M. (2008) Diversity of bacteria associated with stalk rot of corn in Mazandaran and Golestan province. 18th Iranian Plant Protection Congress. 422. (Lecture)
* Khademlou, E. Barzegar, A. Rahimian, H. Taghinasab, M. 2008e. *Dickeya dieffenbachiae* and *Pectobacterium carotovorum* subsp. *odoriferum* as the incitant of banana pseudo-stem rot in Mazandaran province. 18th Iranian Plant Protection Congress. 426. (Poster).
* Khademlou, E. Barzegar, A. Taghinasab, M. and Rahimian, H. (2008) Isolation and identification of *Dickeya* spp. and *Pectobacterium* spp. from philodendron leaf spot. 18th Iranian Plant Protection Congress, 424. (Poster).
* Khademlou, E. Taghinasab, M. Barzegar, A. and Rahimian, H. (2008) Bacterial leaf spot of *Aglaonema* *commatatum* caused by *Dickeya zea* in Mazandaran province. 18th Iranian Plant Protection Congress. 423. (Poster).
* Taghinasab, M. Maleki, M. Alimi, M. Ebrahimi, A. Jafary, M. and Rahimian, H. (2008) Incidence of *Pectobacterium carotovorum* soft rot on carrot in Lorestan province. 18th Iranian Plant Protection Congress. P: 411. (Poster).
* Khademlou, E. Taghinasab, M. Barzegar, A. and Rahimian, H. (2008) Diversity of bacteria isolated from pandanus leaf spot in Mahallat greenhouses. 18th Iranian Plant Protection Congress. 421. (Lecture)
* Taghinasab, M. Khademlu, E. and Rahimian, H. (2008) Identification of *Pectobacterium carotovorum* causal agent of Gladiolus bulb and stalk rot in Mahallat greenhouses. 18th Iranian Plant Protection Congress, 465. (Lecture).
* Taghinasab, M and Ahmadi, M. (2008). Isolation of *Sclerotinia sclerotiorum* the causal agent of Gerbera spp. Petal necrosis. 18th Iranian Plant Protection Congress. P. 184. (Poster).
* Taghinasab, M. Alimi, M. Motaki, S. and Rahimian, H. (2008) Bacterial strain associated with stone fruit bacterial canker in Golestan province. 18th Iranian Plant Protection Congress. P: 414. (Poster).
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* Taghinasab, M. Mahmoodi, H. Arabkhani and Rahimian, M. (2008) Identification of *Dickeya* sp. causal agent of cactus soft rot in Mahallat. 18th Iranian Plant Protection Congress. P. 413. (Poster).
* Taghinasab, M. and Rahimian, H. (2008) Isolation of *Dickeya* sp. Causal agent of *Dracaena* sp. Leaf spot from Mazandaran province. 18th Iranian Plant Protection Congress. 466. (Poster).
* Taghinasab, M. khademloo, E. Rahimian, H (2006) Isolation of *Dickeya* spp. and *Pectobacterium* spp. from pandanus leaf spot, Mahallat greenhouses, 17th Iranian plant protection congress. (Poster).
* Taghinasab, M. khademloo, E. Taheri, A. Rahimian, H (2006). Identification of the agents associated with stalk rot of corn in Golestan province, 17th Iranian plant protection congress. (Lecture).
* Taghinasab, M. Khademlu, E. and Rahimian, H. (2006) Divercity of *Pectobacterium* spp. causing philodendron leaf spot. 17th Iranian Plant Protection Congress. p. 385. (Poster).
* Taghinasab, M. Khademlu, E. and Rahimian, H. 2006b. Isolation of *Dickeya* spp. and *Pectobacterium* spp. from pandanus leaf spot, Mahallat greenhouses. 17th Iranian Plant Protection Congress. p. 405. (Poster).
* Taghinasab, M. Khademlu, E. Taheri, A. and Rahimian, H. (2006) Identification of the agents associated with stalk rot of corn in Golestan province. 17th Iranian Plant Protection Congress. P: 89. (Poster).
* Khademlou, E. Taghinasab, M. Taheri, A. and Rahimian, H. (2006) Bacterial leaf spot of aglaonema caused by strains resembling *Pectobacterium carotovorum* subsp. *odoriferum*. 17th Iranian Plant Protection Congress. p. 384. (Poster).
* Khademlou, E. Taghinasab, M. and Rahimian, H. (2006) Identification of *Dickeya* sp. causal agent of rice crown and stalk rot in Mazandaran province. 17th Iranian Plant Protection Congress. p. 86. (Poster).
* khademloo, E. Taghinasab, M, Taheri, A.. Rahimian, H. (2006). Bacterial leaf spot of aglonema caused by strains resembling *Pectobacterium carotovorum* subsp. *odriferum*. 17th Iranian plant protection congress. (Poster).
* Karimi, E. Taghinasab, M. Rahimian, H. (2006). Isolation of *Bacillus* sp. from bacterial leaf spot of *Ficus* *elastica* from Hamedan province, 16th Iranian plant protection congress. (Poster).
* Karimi, E. Rohani, H. Zafari, D. Taghinasab, M. (2004). Investigation on possible reason of reduced antagonistic potential of *Trichoderma longibrachiatum* on chickpea root rot disease under greenhouse condition, 16th Iranian plant protection congress. (Lecture)
* Taghinasab, M. Karimi, E. Ruhani, H. khodakaramian, Gh. (2004). Evaluation of antagonistic activity of *Trichoderma* spp., *Pseudomonas fluorescents* and *Bacillus subtilis* on *Pythium ultimum* the causal agent of cucumber Damping-off, 16th Iranian plant protection congress. (Lecture).
* Tajick, M. A. Taghinasab, M. 2000. *Tritirachium roseum*, a new form-genus and species for mycoflora of Iran.14th Iranian plant protection congress. (Lecture).

  **Completed Research Project**

* Studies on phenotypic characteristics and genetic diversity of *Xanthomonas axonopodis* pv. *malvacearum* the causal agent of cotton bacterial blight in Golestan province. (2013) Funded by office of technical affairs (Iran).
* Detection of apple blight and blossom blight causal agent in Gorgan city (Iran). Financially supported by GUASNR. (2013)
* Investigation on bud grafting influence of *Poncirus trifoliata* in CTV-infected bitter orange pillar citrus saving. (2013) Funded by GUASNR.
* Investigation of crown gall causal agents in some crops in Golestan province. (2011) Funded by GUASNR.
* Investigation on Mimosa trees decline in Gorgan University of Agricultural Sciences and Natural Resources (GUASNR) campus (Pardis, 2011) Funded by GUASNR.
* Investigation on identification and genetic diversity of bacterial canker and leaf spot of stone fruit trees causal agents in Golestan province. (2009) Funded by Ministry of Jihad-e-Agriculture (Iran)
* Study of pathogenicity and genetic diversity of soft rot producing bacteria isolated from ornamental plants, corn, and rice in Iran. (2009) Funded by office of technical affairs (Iran)