



CURRICULUM VITAE

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Academic qualifications

PhD: 2004- 2009: Ph.D. in Plant Pathology, Faculty of Agriculture, University of Tehran, Karaj, Iran. [Thesis title: Development of a specific molecular marker for detection of the most effective *Trichoderma* strain against *Thanatephorus cucumeris*, the causal agent of rice sheath blight disease]

MSc: 2000-2003: MSc. in Plant Pathology, University of Tehran, Karaj, Iran. [Thesis title: Etiology of Sheath Rot of Rice in Mazandaran and Guilan Provinces, Iran]

BSc: 1993-1997: BSc. in Plant Protection, Guilan University, Rasht, Iran.

Research interests

- Biological control of plant diseases with beneficial microorganisms
- Formulation and application of microbial biopesticides
- Biology, ecology and taxonomy of *Trichoderma* spp.
- Rice diseases

Selected research projects

1. Application of liquid and microcapsule formulations of *Talaromyces flavus* in the tomato commercial greenhouses for controlling Fusarium wilt and investigation of optimized formulations efficiency in controlling cucumber Pythium seedling damping-off disease (Research No. 07-16-16-070-990455).

2. Evaluation of non-chemical compounds against oomycetous causal agents of root and collar rot of tomato produced in East-Azarbaijan (Research No. 2-35-16-004-000029).
3. Evaluation of the efficacy of some biological and chemical fungicides against fungal causal agents of root and basal rot of onion in East-Azarbaijan (Research No. 2-35-16-008-000046).
4. Fermentation and formulation of *Trichoderma asperellum* and evaluation of the effectiveness of the developed formulations in controlling damping-off disease in sugar beet fields (Research No. 0-16-16-020-990084).
5. Integrated pest management in greenhouse cucumber using domestic biological control agents (Research No. 014-41-16-012-99043-000063).
6. Mass production of an isolate of *Beauveria bassiana* using liquid and solid-state fermentation for biological control of greenhouse whitefly (Research No. No. 2-16-16-017-990063).
7. Monitoring of important rice diseases in direct seeded cultivation system in Golestan province (Research No. 013-57-1604-098-98017-980804).
8. Evaluation of Serenade® ASO, a biofungicide containing *Bacillus subtilis* QST713, in controlling Fusarium wilt of tomato (Research No. 4-16-16-122-971101).
9. Evaluation of efficacy of CangMei biofungicide (*Bacillus subtilis* WP) for management of tomato early blight under field conditions (Research No. 0-50-16-045-990332).
10. Evaluation of the efficacy of Romak® EC (α and β -pinene), Serenade® (*Bacillus subtilis*) and Ceraquint® SP (copper sulfate + potassium phosphite) fungicides in controlling of strawberry gray mold (Research No. 24-16-16-045-980256).
11. An investigation on the efficacy of *Pythium oligandrum* (commercial product: Polyversum WP) on damping-off disease of cucumber caused by *Pythium* spp. (Research No. 4-16-16-091-970692)
12. Production of liquid bioformulation of *Talaromyces flavus* by utilizing fermenter and evaluation of its efficacy in biological control of sugar beet seedling damping-off disease (Research No. 7-16-16-002-960004).
13. Evaluation of Probiotect, a biofungicide containing *Bacillus subtilis*, in controlling cucumber damping-off (*Phytophthora drechsleri*) (Research No. 04-16-16-154-961134).
14. Evaluation of Pars Bacil, a biofungicide containing *Bacillus methylotrophicus*, in controlling Fusarium wilt of tomato (Research No. 04-16-16-159-961296).
15. Comparison of some organic substrates for mass production and survival of the promising strain, *Trichoderma harzianum* AS12-2 and evaluation of different formulations on biocontrol of rice sheath blight disease under greenhouse and field conditions (Research No. 2-16-16-92178).
16. Evaluation of Trianum G, a commercial biofungicide containing *Trichoderma harzianum* T-22 in controlling damping-off of melon, tomato and cucumber.
17. Biological control of rice sheath blight with promising *Trichoderma* strains in paddy fields (Research No. 4-60-16-89073).
18. Biological control of gray mold of strawberry with *Trichoderma* spp. (Research No. 0-100-100000-09-0000-85032).
19. Evaluation of commercial biopesticides for controlling seed-borne diseases of rice.

20. Evaluation of the efficiency of biopesticide Naturalis-L to control vegetable sucking pests (Research No. 2-009-100000-09-0000-83095).
21. Study of the fungal agents that cause rice panicle discoloration (Research No. 12-04-04-8601).
22. Investigation on effectiveness of Nativo 75 WG, and Fuji one 40 EC on rice blast disease (Research No. 3-4-04-16-88034).
23. Investigation on effectiveness of Nativo 75 WG on rice sheath blight disease (Research No. 4-04-04-92109).
24. Etiology of neck rot of rice (Research No. 2-04-04-91122).
25. Application of *Trichogramma* and *Bt* to control rice stem borer, *Chilo suppressalis* Walker (Research No. 04-16-16-90090).
26. Evaluation of different formulations of native *Trichoderma* strains, obtained from rice phyllospheres, on biocontrol of blast disease in paddy field (Research No. 3-16-1604-94123).
27. Evaluation of CangMei, a commercial biofungicide containing *Bacillus subtilis*, in controlling rice blast disease under paddy field conditions (Research No. 47-16-16-94193).
28. Evaluation of rice seed treatment with NORDOX 75 WG to control root and crown rot disease in Mazandaran Province (Research No. 4-04-04-93130).
29. Investigation on effectiveness of NORDOX 75 WG on rice blast disease in Mazandaran (Research No. 4-04-04-93131).

Selected publications

Journals papers

1. Aghaei Dargiri, S. **Naeimi S.** and Khayam Nekouei, M. 2025. Enhancing wheat resilience to salinity: the role of endophytic *Penicillium chrysogenum* as a biological agent for improved crop performance. *BMC Plant Biology*, 25: 354.
2. Pazooki, S., Shekariesfahlan, A., Maleki, M. and **Naeimi, S.** 2024. Isolation and identification of endophytic and grapevine trunk diseases associated fungi with antagonistic potential against *Cytospora chrysosperma*. *Journal of Plant Pathology*, <https://doi.org/10.1007/s42161-024-01731-y>
3. Hasanpour, K., Aalami, A., Ghanbari Moheb Seraj, R., Hosseini, R., **Naeimi, S.** and Esmaeilzadeh-Salestani, K. 2023. Identification of drought-tolerant hub genes in Iranian KC-2226 genotype of *Aegilops tauschii* using transcriptomic analysis. *Scientific Reports*, 13 (1), p.9499.
4. Vaghari Souran, S.E., Shekariesfahlan, A., Ashrafi, F., **Naeimi, S.**, Ghasemi, A. 2023. Isolation and identification of grapevine endophytic bacteria with antagonistic potential against *Fomitiporia mediterranea*, a pathogen involved in grapevine trunk disease. *Journal of Plant Diseases and Protection*, 130: 1371-1384.
5. Chenari Bouket, A., Narmani, A., Sharifi, K., **Naeimi, S.**, Afshar Mogaddam, M.R., Hamidi, A.A., Luptakova, L., Alenezi, F.N. and Belbahri, L. 2023. Semi-VOCs of Wood Vinegar Display Strong Antifungal Activities against Oomycete Species *Globisporangium ultimum* and *Pythium aphanidermatum*. *Microbiology Research*, 14 (1), pp.371-389.
6. Javar, S., Farrokhi, S., **Naeimi, S.**, Kalantari, M. 2023. Comparison of survival and pathogenicity of *Beauveria bassiana* A1-1 spores produced in solid and

- liquid state fermentation on whitefly nymph, *Trialeurodes vaporariorum*. *Journal of Plant Protection Research*, 63 (3): 308-3017.
7. Chenari Bouket, A., Narmani, A., Tavasolee, A., Elyasi, G., Abdi, A., **Naeimi, S.**, Sharifi, K., Oszako, T., Alenezi, F.N., Belbahri, L. 2022. In vitro evaluation of wood vinegar (Pyroligneous Acid) VOCs Inhibitory Effect against a Fungus-like Microorganism *Ovatisporangium (Phytophthium)* isolate recovered from tomato fields in Iran. *Agronomy*, 12: 1609.
 8. Kamali, M., Guo, D., **Naeimi, S.** and Ahmadi, J. 2022. Perception of biocontrol potential of *Bacillus inaquosorum* KR2-7 against tomato Fusarium wilt through merging genome mining with chemical analysis. *Biology*, 11: 137.
 9. Shirazi, J., Farrokhi, S., Attaran, M.R., **Naeimi, S.** and Dadpour, H. 2021. Biological Pest Control in Iran: Past, Present and Future. *Outlooks on Pest Management*, 32 (5): 233-239.
 10. Hasanpour, K., Aalami, A., Hosseini, R., **Naeimi, S.** 2021. Effect of drought stress on some morphological and physiological traits in *Aegilops tauschii* genotypes. *Iranian Journal of Genetics and Plant Breeding*, 9 (2): 47-59. 10.30479/ijgpb.2021.14510.1284
 11. Zendedel, N., Hasanzadeh, N., Beiki Firouzjahi, F. and **Naeimi, S.** 2021. Phylogenetic study of endophytic bacterial strains using *gyrB*, *rpoD*, *FEN* and *nifH* genes. *Archives of Phytopathology and Plant Protection*. DOI: 10.1080/03235408.2021.1984748
 12. Kredics L., **Naeimi, S.**, Hatvani, L., Vágvölgyi C., Cai, F., Druzhinina, I., Manczinger, L. 2021. ‘The Good, the Bad and the Ugly’ in the shades of green: the genus *Trichoderma* in the spotlight. *Indian Phytopathology*, 74(2): pp. 403-411.
 13. Zendedel, N., Hasanzadeh, N., Beiki, F. and **Naeimi, S.** 2021. Tomato bacterial endophytes in controlling *Verticillium* wilt and their advantage on biostimulation. *Hellenic Plant Protection Journal*, 14: 1-13.
 14. **Naeimi, S.**, Khosravi, V., Varga, A., Vágvölgyi, C. and Kredics, L. 2020. Screening of organic substrates for solid-state fermentation, viability and bioefficacy of *Trichoderma harzianum* AS12-2, a biocontrol strain against rice sheath blight disease. *Agronomy* 10(9):1258.
 15. Naraghi, L., **Naeimi, S.**, Marzban, R. 2019. Propagation of *Talaromyces flavus* by a fermenter for greenhouse application to control sugar beet seedling damping-off. *Acta Biologica Indica* 8(2): 68-75.
 16. **Naeimi, S.**, Khosravi, V., Nouri, M.Z., Hoda, H., Vágvölgyi, C., and Kredics, L. 2019. Biological control of rice sheath blight disease with formulation of indigenous *Trichoderma* strains under paddy field condition. *Acta Biologica Szegediensis*, 63(1): 37–43.
 17. Kamali, M., Ahmadi, J., **Naeimi, S.** and Guo, D. 2019. Characterization of *Bacillus* isolates from the rhizosphere of tomato suppressing *Fusarium* wilt disease. *Acta Phytopathologica et Entomologica Hungarica*, 54(1): 53–68.
 18. Asef, M.R., Khosravi, V. and **Naeimi, S.** 2015. First report of *Coprinospora urticicola* from Iran. *Mycologia Iranica*, 2(2): 137.
 19. **Naeimi, S.**, Javadi, A.R. and Javadi, L. 2015. First report of *Pestalotia disseminata*, the causal agent of feijoa fruit rot in Iran. *Mycologia Iranica*, 2(1): 76 – 77.
 20. Kim, S.W., Lamsal, K., **Naeimi, S.**, Adhikari, M., Yadav, D.R. and Lee Y.S. 2014. A Report of *Aspergillus niger* isolated from *Pectocera fortune* specimen in Korea. *Journal of Agricultural, Life and Environmental Sciences*, 26(3): 31-33.

21. Lamsal, K., Kim, S.W., **Naeimi, S.**, Adhikari, M., Yadav, D.R., Kim, C., Lee, H.B. and Lee Y.S. 2013. Three new records of *Penicillium* species isolated from insect specimens in Korea. *Mycobiology*, 41(2): 116-119.
22. Khalili, E., Sadravi, M., **Naeimi, S.**, and Khosravi, V. 2012. Biological control of rice brown spot with native isolates of three *Trichoderma* species. *Brazilian Journal of Microbiology*, 43(1): 297-305.
23. **Naeimi, S.**, Kocsubé, S., Antal, Z., Okhovvat, S.M., Javan-Nikkhah, M., Vágvölgyi, C., and Kredics, L. 2011. Development of a strain-specific SCAR marker for the detection of *Trichoderma harzianum* AS12-2, a biological control agent against rice sheath blight pathogen. *Acta Biologica Hungarica*, 62 (1): 73-84.
24. **Naeimi, S.**, Khodaparast, S.A., Javan-Nikkhah, M., Vágvölgyi, C., and Kredics, L. 2011. Species patterns and phylogenetic relationships of *Trichoderma* strains in rice fields of southern Caspian Sea, Iran. *Cereal Research Communications*, 39(4): 560-568.
25. **Naeimi, S.**, Okhovvat, S. M., Javan-Nikkhah, M., Kredics, L. and Khosravi, V. 2010. Biological control of *Rhizoctonia solani* AG1-1A, the causal agent of rice sheath blight with *Trichoderma* strains. *Phytopathologia Mediterranea*, 49: 287-300.
26. **Naeimi, S.**, Okhovvat, S. M., Hedjaroude, G. A., Khosravi, V., 2003. Sheath rot of rice in Iran. *Communication in Applied Biological Science*, 68: 681-684.

Books

1. Aghaei Dargiri, S. **Naeimi S.** and Khayam Nekouei, M. 2024. Endophytic Microorganisms: Harnessing Biological Control for Biotic and Abiotic Stress Management in Plants. *In: Hakeem, K.R. (Ed). Perspectives and Insights on Soil Contamination and Effective Remediation Techniques.* IntechOpen, UK.
2. Aghaei Dargiri, S. and **Naeimi S.** 2024. Plant Growth-Promoting Rhizobacteria in Management of Biotic and Abiotic Stresses. *In: Gull, M. (Ed). Updates on Rhizobacteria.* IntechOpen, UK.
3. Kredics L., Hatvani L., Allaga, H., Büchner, R., Cai, F., Vágvölgyi C., Druzhinina I.S. and **Naeimi S.** 2022. *Trichoderma* Green Mould Disease of Cultivated Mushrooms. *In: Amaresan, N., Sankaranarayanan, A., Dwivedi, M.K. and Druzhinina, I.S. (Eds). Advances in Trichoderma Biology for Agricultural Applications.* Springer.
4. **Naeimi S.**, Hatvani L., Marik, T., Balázs, D., Dozi, I., Cai, F., Vágvölgyi C., Druzhinina I.S. and Kredics L. 2022. Trichodermosis: Human Infections Caused by *Trichoderma* Species. *In: Amaresan, N., Sankaranarayanan, A., Dwivedi, M.K. and Druzhinina, I.S. (Eds). Advances in Trichoderma Biology for Agricultural Applications.* Springer.
5. Kredics L., Hatvani L., **Naeimi S.**, Körmöczi P., Manczinger L., Vágvölgyi C. and Druzhinina I. 2014. Biodiversity of the Genus *Hypocrea/Trichoderma* in Different Habitats. *In: Gupta V.K., Schmoll M., Herrera-Estrella A., Upadhyay R.S., Druzhinina I. and Tuohy M. (Eds). Biotechnology and Biology of Trichoderma.* Elsevier.
6. **Naeimi S.**, Khodaparast SA, Okhovvat SM, Javan-Nikkhah M, Vágvölgyi C, Kredics L. 2012. Biodiversity of the genus *Trichoderma* in rice fields of Mazandaran province, Northern Iran. *In: Crop Science and Technology for Food*

- Security. R.K. Behl, L. Bona, J. Pauk, W. Mehrbach and A. Veba, eds., Agrobios International, Jodpur, India 2012, 486p.
7. Kredics L, García Jimenez L, **Naeimi S**, Czifra D, Urbán P, Manczinger L, Vágvölgyi C, Hatvani L. 2010. A challenge to mushroom growers: the green mould disease of cultivated champignons. In: Méndez-Vilas, A (Ed.) Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology. Microbiology Book Series, No. 2, Vol. 1 FORMATEX, Badajoz, Spain. 295-305.

Theses supervised

1. Kamali, M. 2019. Evaluation of *Bacillus subtilis* isolates in biological control of Fusarium wilt of tomato, complete genome sequencing and bioinformatics study of the most effective strain. PhD thesis in Plant Breeding, University of Imam Khomeini.
2. Ramesh, N. 2019. Diversity of fungal endophytes of rice and their effectiveness in controlling important diseases of rice seedlings in nursery. PhD thesis in Plant Pathology, Faculty of Agriculture, Sciences and Research Branch, Azad University, Tehran, Iran.
3. Hosseinmardi, M. 2019. Biological control of tomato early blight using fungal epiphytes. MSc. thesis in Plant Pathology. Faculty of Agriculture, Sciences and Research Branch, Azad University, Tehran, Iran.
4. Seyed Ali, E. 2017. The effect of *Trichoderma* isolates and foliar application of salicylic acid on quantitative and qualitative yield of summer savory (*Satureja hortensis* L.). MSc. thesis in Horticulture. Faculty of Agriculture, Sciences and Research Branch, Azad University, Tehran, Iran.
5. Behrestaghi, M. 2014. Population variability of *Trichoderma* spp. in the fields of rice, canola and adjacent forest. MSc. thesis in Plant Pathology. College of Agriculture, University of Guilan, Iran.
6. Javadi, L. 2013. Biological control of rice blast disease with native *Trichoderma* isolates in Mazandaran province. MSc. thesis in Plant Pathology. Faculty of Agriculture, Sciences and Research Branch, Azad University, Tehran, Iran.
7. Bagheri, F. 2013. Identification of fungal pathogens of important rice weeds in paddy fields of Mazandaran province. Faculty of Agriculture, Ghaemshahr Branch, Azad University, Iran.

Other achievements

- “Researcher of the Year” of Iranian Research Institute of Plant Protection (2021)
- Patent: Formulation of a biofungicide containing indigenous fungus, *Trichoderma harzianum* AS12-2 for controlling rice sheath blight disease in the field. 2016. Iran patent No. 88006.
- International Development of Regulatory Globalization (IDRG, Bremen, Germany) workshop on Regulatory Affairs for Biopesticides (26-27 April, 2016)

- Guest researcher (2007-2008): Department of Microbiology, University of Szeged, Hungary
- Postdoc (2013): Research fellow at Department of Applied Plant Sciences, *College of Agriculture and Life Sciences*, Kangwon National University, Chuncheon, South Korea
- Guest researcher (2017): School of Environmental Sciences, University of Guelph, Ontario, Canada
- JICA Training Course on “Agrobiotechnology for Sustainable Agriculture”, Kobe, Japan (March 27 to May 25, 2012)
- IRIPP Training Course on Application of Molecular Techniques in Plant Protection (February 2007)
- International Rice Research Institute CD-Based Integrated Pest Management Training Course (27 July- 05 August 2005)
- DSMZ (Germany)-University of Tehran (Iran) workshop on Application of Bioinformatics in Plant Pathology (14-16 June 2005)