



CURRICULUM VITAE

Laleh Naraghi (Ph.D.)

Iranian Research Institute of Plant Protection (IRIPP)

Research Department of Plant Pathology

P.O. Box 1454, Tehran 19395, Iran

Tel: 98-22403012

Fax: 98-2122402570

E-mail: lale_naraghi@yahoo.com

URL: www.iripp.ir



Academic qualifications

PhD: Ph.D in Plant Pathology in Islamic Azad University (IAU), Science and Research Branch, Tehran, Iran (2005-2010)

MSc: M.Sc. in Botany from Tarbiat Modarres University, Tehran, Iran (1996-1999)

BSc: B.Sc. in Botany from Shahid Beheshti University, Tehran, Iran (1992-1995)

Research interests

Cotton and sugar beet diseases and biological control on them using antagonistic fungi

Selected research projects

- A comparison between two methods of cotton seed treatment with *Talaromyces flavus* in order to decrease *Verticillium* wilt and seedling diseases in greenhouse and field conditions.
- Investigation of the effect of antagonistic fungi and weed control on the incidence of cotton *Verticillium* wilt and seedling damping-off diseases.
- Investigation of the effect of different seed treatments contained *Talaromyces flavus* on sugar beet seedling damping-off disease.
- Investigation of the efficacy of different seed treatments containing fungal antagonists on sugar beet seedling damping-off disease in the field condition.

- Development and production of antibiotic resistant mutants of antagonistic bacteria for using in the field studies.
- Study on the effect of some inorganic and organic compounds in survival of bacterial antagonists and their efficacy in controlling cotton seedling damping-off disease.
- The investigation of the possibility of biological control of greenhouse cucumber Fusarium wilt disease by *Talaromyces flavus* and *Trichoderma harzianum* in Varamin cucumber greenhouses
- The investigation of the possibility of biological control of tomato Fusarium wilt disease by *Talaromyces flavus* and *Trichoderma harzianum* in greenhouse and field conditions
- Investigation of the efficacy of several common herbicides on sugar beet seedling damping-off disease in greenhouse and field conditions
- Investigation of the possibility producing the most suitable biological control agents for using in vegetables greenhouses
- Investigation of stability increasing of *Talaromyces flavus* different isolates using different stabilizers
- Evaluation of the efficacy of the biological compound of *Talaromyces flavus* in controlling potato Verticillium and Fusarium wilt diseases in Hamedan

Selected publications

Journals papers

- Atfannejad Dezfooli, R., **Naraghi, L.**, and Niazmand, A. 2014. A comparative study on different antagonistic mechanisms of *Talaromyces flavus* and *Trichoderma harzianum* in terms of growth inhibition on *Fusarium oxysporum* f.sp. *lycopersici*, causal agent of tomato wilt disease in laboratory conditions. *International Journal of Agricultural Research and Review*, 2:9: 115-127.
- Bahramian, D., **Naraghi, L.**, and Heydari, A. 2016. Effectiveness of the chemical stabilizers of *Talaromyces flavus* in biological control of tomato and greenhouse cucumber vascular wilt disease. *Journal of Plant Protection Research*, 56: 3: 291-297.
- Farhang Niya, S., **Naraghi, L.**, Ommati, F., and Pirnia, M. 2015. Evaluation of the efficacy of the biological compound affected by *Talaromyces flavus* in controlling

tomato Fusarium wilt disease in the field conditions. *International Journal of Agricultural Science and Research*, 5:2: 153-164.

- Heydari, A. Fatahi, H. Zamanizadeh, H. Hasanzadeh, N. and **Naraghi, L.** 2004. Investigation on the possibility of using bacterial antagonists for biological control of cotton seedling damping-off in green house. *Applied Entomology and Phyto pathology*, 72 :1: 51-68.

-Heydari, A. , and **Naraghi, L.** 2011. Controlling sugar beet mortality disease by application of new bioformulations . **journal of plant protection research**.

- Jorjani, M., Heydari, A., Zamanizadeh, H. R., Rezaee, S., and **Naraghi, L.** 2011. Development of *Pseudomonas fluorescens* and *Bacillus coagulans* based bioformulations using organic and inorganic carriers and evaluation of their influence on growth parameters of sugar beet. *Journal of Biopesticides*, 4: 2: 180-185.

- Jorjani, M., Heydari, A., Zamanizadeh, H. R., Rezaee, S., **Naraghi, L.**, and Zamzami, P. 2012. Controlling sugar beet mortality disease by application of new bioformulations. *Journal of Plant Protection Research*, 52: 3: 303-307.

- Jahanifar, H., Heydari, A., Hasanzadeh, N., Zamanizadeh, H. R., Rezaee, S., and **Naraghi, L.** 2008. A comparison between antibiotic- resistance mutants of antagonistic bacteria and their wild types in biological control of cotton seedling damping-off disease. *Journal of Biological Sciences*, 8: 5: 914-919.

- Kakvan, N., Heydari, A., Zamanizadeh, H. R., Rezaee, S., and **Naraghi, L.** 2013. Development of new bioformulations using *Trichoderma* and *Talaromyces* fungal antagonists for biological control of sugar beet damping-off disease. *Crop Protection*, 53: 1: 80-84.

- Mansoori, M., Heydari, A., Hassanzadeh, N., Rezaee, S., and **Naraghi, L.** 2013. Evaluation of *Pseudomonas* and *Bacillus* bacterial antagonists for biological control of cotton *Verticillium* wilt disease. *Journal of Plant Protection Research*, 53: 2: 154-157.

- Mirzaee, M. R., Heydari, A., Zare, R., **Naraghi, L.**, Sabzali, F., and Hasheminasab, M. 2013. Fungi associated with boll and lint rot of cotton in Southern Khorasan province of Iran. *Archives of Phytopathology and Plant Protection*, 46: 11: 1285-1294.

- Moradi, B., **Naraghi, L.**, and Niazmand, A. 2015. Investigation of the efficacy of several common herbicides on sugar beet seedling damping-off disease in greenhouse. *International Journal of Agricultural Science and Research*, 5:1: 43-54.

- **Naraghi, L.** 2011. Combined use of antagonist fungi and herbicides for integrated control of wilting diseases *Verticillium* wilt and seedling death in Moghan and Neishabour cotton fields. *Research Archivements For Field and Horticulture Crops*.

-**Naraghi, L.** 2018. Evaluation of the efficacy of *Talaromyces flavus* biological product in controlling potato wilt diseases in Hamadan province. **Applied science of potatoes.**

-**Naraghi, L.** 2018. Growth inhibition of fusarium oxysporum f. Sp. lycopersici, the causal agent of tomato fusarium wilt disease by nanoformulations containing *Talaromyces flavus*. **Ekologi.**

-Naraghi, L. 2019. Introduction of Talaromin Biological Fungicide. **aac: augmentative and alternative communication.**

-**Naraghi, L.** 2019. Biological control of cotton verticillium wilt by nanoformulations containing *Talaromyces flavus*. Eurasian Journal of BioSciences.

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-**Naraghi, L.** 2020. Efficacy of redoxil and ridomex GR 5% (METALAXYL) and mancolaxyl wp 72% (metalaxyl mancozeb) fungicides in controlling cucumber seedling damping-off disease caused by *Pythium aphanidermatum*. Plant Archives.

- **Naraghi, L.,** Ahmadi, A., Sarkari, S., Heydari, A., and Maleki, N. 2011. Investigation of the effect of antagonistic fungi on the incidence of cotton Verticillium wilt and seedling damping-off diseases. Applied Entomology and Phytopathology, 79: 2: 251-272.

- **Naraghi, L.,** Ahmadi, A., Sarkari, S., Heydari, A., and Maleki, N. 2012. Simultaneous Use of Antagonistic Fungus and Herbicide for Integrated Control of Verticillium Wilt and Seedling Damping-off Diseases in Moghan and Neishaboor Cotton Fields. Research Achievements for Field and Horticulture Crops, 1: 1: 61-73.

- **Naraghi, L.,** Arjmandian, A., Heydari, A., Sharifi, K., and Afshari Azad, H. 2014. A comparison between carbendazim fungicide and *Talaromyces flavus* in controlling Verticillium wilt of potato under field conditions. International Journal of Agricultural Science and Research, 4: 1: 89-100.

- **Naraghi, L.,** Heydari, A., Askari, H., Pourrahim, R., Marzban, R. 2014. Biological control of *Polymyxa betae*, fungal vector of rhizomania disease of sugar beets in greenhouse conditions. Journal of Plant Protection Research, 54: 2: 109-114.

- **Naraghi, L.** Heydari, A. , and Azaddisfani, F. 2006. Investigation of the possibility of biological control of cotton verticillium wilt using *Talaromyces flavus*. Emerging Trends in Plant- Microbe Interactions: 264-267.

- **Naraghi, L.,** Heydari, A., and Azaddisfani, F. 2008. Study on antagonistic effects of non-volatile extracts of *Talaromyces flavus* on cotton Verticillium wilt disease. Asian Journal of Plant Sciences, 7: 4: 389-393.

- **Naraghi, L.**, Heydari, A., and Ershad, D., 2007. Study on the growth ability of *Talaromyces flavus* on different plant material residues for biological control of cotton wilt caused by *Verticillium dahliae*. Iranian J. of Plant Pathology, 42: 3,4: 381-398.

- **Naraghi, L.**, Heydari, H., Hesan, A., and Sharifi, K. 2014. Evaluation of *Talaromyces flavus* and *Trichoderma harzianum* in biological control of sugar beet damping-off disease in the greenhouse and field conditions. International Journal of Agricultural Science and Research, 4: 1: 65-74.

- **Naraghi, L.** Heydari, A. Karimi Roozbehani, A. and Ershad, D. .2003. Isolation of *Talaromyces flavus* from cotton fields in Gorgan and its antagonistic effects on *Verticillium dahliae* the causal agent of cotton wilt. Iranian Journal of Plant Pathology, 39:3,4: 109-121.

- **Naraghi, L.**, Heydari, A., Rezaee, S., and Razavi, M. 2012. Biocontrol agent *Talaromyces flavus* stimulates the growth of cotton and potato. Journal of Plant Growth Regulation, 31: 471-477.

- **Naraghi, L.**, Heydari, A., Rezaee, S., and Razavi, M. 2013. Study on some antagonistic mechanisms of *Talaromyces flavus* against *Verticillium dahliae* and *Verticillium albo-atrum*, the causal agents of wilt disease in several important crops. Biocontrol in Plant Protection, 1: 1: 13-28.

- **Naraghi, L.**, Heydari, A., Rezaee, S., and Razavi, M. 2014. Assessment of genetic diversity in different isolates of *Talaromyces flavus* by RAPD molecular marker. International Journal of Agricultural Science and Research, 4:6: 53-60.

- **Naraghi, L.**, Heydari, A., Rezaee, S., Razavi, M., and Afshari-Azad, H. 2010. Biological control of greenhouse cucumber *Verticillium* wilt disease by *Talaromyces flavus*. Phytopathologia Mediterranea, 49: 3: 321-329.

- **Naraghi, L.**, Heydari, A., Rezaee, S., Razavi, M., and Afshari-Azad, H. 2012. Promotion of growth characteristics in greenhouse cucumber and tomato by *Talaromyces flavus*. International Journal of Agricultural Science and Research, 2:3: 129-141.

- **Naraghi, L.**, Heydari, A., Rezaee, S., Razavi, M., and Jahanifar, H. 2010. Study on antagonistic effects of *Talaromyces flavus* on *Verticillium albo-atrum*, the causal agent of potato wilt disease. Crop Protection, 29: 7: 658-662.

- **Naraghi, L.**, Heydari, A., Rezaee, S., Razavi, M., Jahanifar, H., and Mahmoodi Khaledi, E. 2010. Biological control of tomato *Verticillium* wilt disease by *Talaromyces flavus*. Journal of Plant Protection Research, 50: 3: 360-365.

- **Naraghi, L.**, Zareh-Maivan, H., Heydari, A., and Afshari-Azad, H. 2007. Investigation of the effect of heating, vesicular arbuscular mycorrhiza and thermophilic fungus on cotton wilt disease. Pakistan Journal of Biological Sciences 10: 1596-1603.

-Nikan, J., Heydari, A., and Naraghi, L. 2017. Application of some fungal biological formulations for controlling garlic white rot disease in the conditions field. **Biological Control in Plant Protection**.

Conference papers

- Atfannejad Dezfooli, R., **Naraghi, L.**, Niazmand, A. R. and Heydari, A. 2012. A comparative study on different antagonistic mechanisms of *Talaromyces flavus* and *Trichoderma harzianum* in terms of growth inhibition on *Fusarium oxysporum* f. sp. *lycopersici*, causal agent of tomato wilt disease. Proceedings of 20th Iranian Plant protection Congress, 285p.

- Azad-Disfani, F. and **Naraghi, L.** 2004. Combined effects of seed treatment with carboxin- thiram and insecticide on germination and seedling damping-off disease in cotton. Proceeding of 27th ISTA Congress Seed Symposium, Budapest, Hungary, 103p.

- Azad-Disfani, F. and **Naraghi, L.** 2004. Greenhouse and field evaluation of seed treatment chemical in relation to root characters in cotton. Proceeding of 27th ISTA Congress Seed Symposium, Budapest, Hungary, 103p.

- Dilmaghani, A. Heydari, A., and **Naraghi, L.** 2005. A comparison between cotton seed delinting by acid and cotton seed treatment with fungicides in their efficacy against cotton seed decay and cotton seedling damping-off diseases. Proceeding of the 4th National scientific/research conference of agriculture and natural resources for young researchers club (Tabriz-Iran): p210.

- Gholi Niakan, M., Roustae, A., **Naraghi, L.** and Heydari, A. 2012. A comparative study on different antagonistic mechanisms of *Talaromyces flavus* and *Trichoderma harzianum* in terms of growth inhibition on *Fusarium oxysporum* f. sp. *cucumerinum*, causal agent of greenhouse cucumber wilt disease. Proceedings of 20th Iranian Plant protection Congress, 284p.

- Heydari, A. **Naraghi, L.** Abdollahi, G. A. and Yazdani, N. 2004. Cotton IPM Project in Iran. Proceeding of the 63rd plenary meeting of ICAC (Mumbai), pp: 65-66.

- Jahanifar, H. Heydari, A. Hassanzadeh, N. Zamanizadeh, H. R. Rezaee, S. and **Naraghi, L.** 2008. A comparison between antibiotic resistant mutants of antagonistic bacteria and their wild types in biological control of cotton seedling damping-off disease. Proceedings of 18th Iranian Plant protection Congress, 317p.

- Janlou, H. M. Heydari, A. Zamanizadeh, H. R. Arabsalmani, M. and **Naraghi, L.** 2004. Investigation of growth promoting activity of antagonistic bacteria in cotton fields. Proceedings of 16th Iranian Plant protection Congress, 308p.

- **Naraghi, L.** Ahmadi, A. Sarkari, S. Heydari, A. and Maleki, N. 2008. Investigation of the effect of antagonistic fungi and weed control on the incidence of cotton

Verticillium wilt and seedling damping-off diseases. Proceeding of 18th Iranian Plant Protection Congress, 269p.

- **Naraghi, L.**, Arjmandian, A., Heydari, A., Sharifi, K., and Shahabi, A. A comparison between carbendazim fungicide and *Talaromyces flavus* in wilt of potato under field conditions. Proceedings of 21th Iranian Plant protection Congress, 171p. IPPC-1037.

- **Naraghi, L.** Azad-Disfani, F. and Heydari, A. .2004. The probability of using *Talaromyces flavus* for biological control of Verticillium wilt of cotton. Proceedings of 3rd National Conference on the Development in the Application of Biological Products & Optimum Utilization of Chemical Fertilizers & Pesticides in Agriculture, 411p.

- **Naraghi, L.** Azad-Disfani, F. and Heydari, A. 2005. Investigation of the possibility of biological control of cotton Verticillium wilt using *Talaromyces flavus*. Proceedings of 75th Asian Conference on " Emerging Trends in Plant-Microbe Interactions", University of Madras, India, pp: 264-267.

- **Naraghi, L.** Hesan, A. Ravanlou, A. Heydari, A. and Karaminejad, M. R. 2008. Investigation of the effect of different seed treatments contained *Talaromyces flavus* on sugar beet seedling damping-off disease. Proceeding of 18th Iranian Plant Protection Congress, 366p.

- **Naraghi, L.** and Heydari, A. 2001. Isolation of fungal antagonists of *Verticillium dahliae* causal agent of cotton wilt . Proceedings of 1th Asian International Micological Congress, 72p.

- **Naraghi, L.** and Heydari, A. 2006. Study on the growth ability of *Talaromyces flavus* on different plant material residues for biological control of cotton wilt caused by *Verticillium dahliae*. Proceeding of 17th Iranian Plant Protection Congress, 268p.

- **Naraghi, L.** Heydari, A. Afshari-Azad, H. and Kazemi, M. 2004. Occurance of sunflower brown spot disease in Semnan. . Proceedings of 16th Iranian Plant protection Congress, 298p.

- **Naraghi, L.** Heydari, A. Afshari-Azad, H. and Sharifi, K. 2012. Antagonistic effects of *Talaromyces flavus* on some soil-borne pathogens of potato, tomato and greenhouse cucumber. Proceedings of 20th Iranian Plant protection Congress, 278p.

- **Naraghi, L.** Heydari, A. Arabsalmani, M. and Ershad, D. 2004. More investigation on antagonistic effects of fungal isolates from cotton fields on *Verticillium dahliae* . Proceedings of 16th Iranian Plant protection Congress , 312p.

- **Naraghi, L.**, Heydari, A., Askari, H., Pourrahim, R., and Marzban, R. Biological control against *Polymyxa betae*, vector of the causal agent of rhizomania disease of sugar beet in greenhouse conditions. Proceedings of 21th Iranian Plant protection Congress, 166p. IPPC-1054.

- **Naraghi, L.** Heydari, A. Hamdollahzadeh, A. Azzizova, Z. and Gorkortseva, E. 2000. Classification of *Verticillium dahliae* isolates the causal agent of cotton wilt in Gorgan

and Varamin based on heterokaryosis. Proceedings of 14th Iranian Plant protection Congress, 271p.

- **Naraghi, L.** Heydari, A. Karimi Roozbehani, A. and Ershad, D. 2000. Isolation of *Talaromyces flavus* from cotton fields in Gorgan area and investigation of its antagonistic effects on *Verticillium dahliae* agent of cotton wilt .Proceedings of 14th Iranian Plant protection Congress, 275p.

- **Naraghi, L.** Heydari, A. Rezaee, S. and Razavi, M. 2012. Biological control of wilt disease caused by *Verticillium albo-atrum* in potato, tomato and greenhouse cucumber by *Talaromyces flavus*. Proceedings of 20th Iranian Plant protection Congress, 297p.

- **Naraghi, L.** Heydari, A. Rezaee, S. Razavi, M. and Afshari Azad, H. 2012. Isolation of *Talaromyces flavus* from major cultivation area of potato, tomato and greenhouse cucumber and determination of suitable substrates for its mass production. Proceedings of 20th Iranian Plant protection Congress, 96p.

- **Naraghi, L.** Heydari, A. Rezaee, S. Razavi, M. and Jahanifar, H. 2010. Biological control of tomato Verticillium wilt disease by *Talaromyces flavus*. Proceedings of 19th Iranian Plant protection Congress, 920p.

- **Naraghi, L.,** Karaminejad, M. R., Heydari, A., Montazeri, M., Najafi, H., and Razavi, M. Investigation of the efficacy of several common herbicides on sugar beet seedling damping-off disease in greenhouse and field conditions. Proceedings of 6th Iranian Weed Sciences Congress , 958p.

- Shahraeen, N., Heydari, A., **Naraghi, L.**, Farzadfar, Sh. and Ghotbi, T. 2000. First report of the occurrence of Rhizomonium disease of sugarbeet in Semnan province. Proceedings of 14th Iranian Plant protection Congress , 261p.

- Zare Maivan, H., **Naraghi, L.**, Heydari, A., and Afshari- Azad, A. 2000. Investigation of the effects of heating, thermophilic fungus and endomycorrhiza on the microsclerotia of *Verticillium dahliae*. Proceedings of 14th Iranian Plant protection Congress , 274p.

Books

- Heydari, A., and **Naraghi, L.** 2012. Biological control of Verticillium wilt disease: Concept, Methods and Mechanisms. Lambert Academic Publishing (LAP), 111 pages.

Software and E-publications

- Gholi-Nyakan, M., Roostae, A., **Naraghi, L.**, and Heydari, A. 2014. Investigating biological control of Fusarium wilt disease of cucumber caused by *Fusarium oxysporum* f. sp. cucumerinum by *Talaromyces flavus* and trichoderma harzianum. International Journal of Agriculture and Crop Sciences, 7: 3: 154-160.

- Heydari, A., and **Naraghi, L.** 2014. Application of antagonistic bacteria for the promotion of cotton seedlings growth characteristics. *International Journal of Agriculture and Crop Sciences*, 7:13:1267-1273.

Thesis supervised

- Comparison of Efficacy of Different Stabilizers of *Talaromyces flavus* Isolates in Biological Control of Sugar beet Seedling-Damping-off Disease Caused by *Rhizoctonia solani* and *Fusarium proliferatum* (MSc Student in Islamic Azad University, Varamin-Pyshva Branch, Tehran, Iran)
- Investigation of the efficacy of several common herbicides on sugar beet seedling damping-off disease in greenhouse. (MSc Student in Islamic Azad University, Jahrom Branch, Jahrom, Iran)
- Investigation of the efficacy of the most effective treatments of *Talaromyces flavus* in biological control of tomato Fusarium wilt disease in the field conditions. (MSc Student in Islamic Azad University, Damghan Branch, Damghan, Iran)
- Study of biological control of cucumber wilt disease (*F.oxysporum* f. sp. *cucumerinum*) by *Talaromyces flavus* and *Trichoderma harzianum* isolates. (MSc Student in Tehran University, Abureihan Campus, Tehran, Iran)
- Study of biological control of tomato wilt disease (*F.oxysporum* f. sp. *lycopersici*) by *Talaromyces flavus* and *Trichoderma harzianum* isolates. (MSc Student in Islamic Azad University, Jahrom Branch, Jahrom, Iran)

Other achievements

Membership in Scientific Association

- Membership in Iranian Phytopathological Society
- Membership in Council of Agriculture and Natural Resources

Scientific Awards

- Scientific award from 2th fair of Research and Development Awards of Iran, 2 September 2012.