

Mohammad Moradi- Resume

Pistachio Research Center

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Education and qualification

- Ph.D. in Plant Pathology, Bonn University, Germany, 2004 - 2009

Thesis: Microbiological and molecular assessment of interactions among the major *Fusarium* head blight pathogens on wheat ears

- M.Sc. in Plant Protection, College of Agriculture, Shiraz University Course, Iran 1994-1997.

Thesis: Isolation and identification of *Phytophthora* species from crown and root of pistachio nut trees in Kerman and Fars provinces and determination of relative resistance of common pistachio rootstocks to them.

- B.Sc. Department of Plant Protection, College of Agriculture, Ahvaz University

Course; Plant protection, 1990-1994.

Membership of national and international societies

- Iranian Phytopathology Society, from 1998 until now.

Employment experience

2009- : Researcher at Pistachio Research Center (PRC)

2009- 2012 : National consultant in FAO TCP project; TCP/IRA/3104

2014- : Head of Plant Protection Department in PRC

Awards obtained

Ph.D. scholarship, Ministry of Agriculture, Tehran, Iran

Conducted research projects.

1. **Moradi, M.**, et al. 2016. Long term control pistachio crown and root rot using chemical, cultural and biological approaches.
2. **Moradi, M.**, et al. 2013. Management strategy of toxigenic strains of *Aspergillus flavus* in pistachio growing areas of Iran (2011-2013). Final report of IPRI. 45pp.
3. **Moradi, M.** et al. 2013. The influence of parameters affecting *Aspergillus flavus* and aflatoxin production during storage of pistachios (2010-2013). Final report of IPRI. 38pp.
4. **Moradi, M.** et al. 2013. Assessment of application of systemic and protective fungicides for long-term control of pistachio crown and root rot (2009-2013). Final report of IPRI. 33pp.
5. **Moradi, M.** et al. 2013. Study of leaves chlorosis problem of pistachio trees in Keshtkhan of Ardakan and presentation of proper suggestions in solving this problem (2009-2013). Final reports of IPRI. 76pp.
6. Mohammadi M., **Moradi, M.** 2008. Study of pistachio contamination in processing terminals of Semnan province and evaluation of pistachio cultivars to *Aspergillus flavus* and aflatoxin B1 (2005-2008). Final report of IPRI. 25pp.
7. Tajabadi, A., **Moradi, M.** 2005. Breeding of pistachio rootstocks (2000-2005). Final report of IPRI. 70pp.
8. **Moradi, M.**, and Javanshah, A. 2004. Distribution of aflatoxin in processed pistachio nut terminals and pistachio bulks, (2002-2004). 15pp
9. **Moradi, M.**, and Ershad, J. 2004. Density fluctuations of *Aspergillus* spp. in pistachio production processing in Kerman province during (1998-2004), (Ecology and Biology). Final report of IPRI, 55pp.
10. Salehi, F., and **Moradi, M.** 2004. Effects of inoculation VAM on the drought and salinity stress in pistachio seedlings.

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11. **Moradi, M.**, Tajabadi, A., and Banihashemi, Z. 2002. Relationship among date of hull splitting, appearance of pistachio nuts and their contamination to *Aspergillus* species and aflatoxin. Final report of IPRI (1999-2002), 19pp.
12. **Moradi, M.**, Banihashemi, Z. 2002. Study on the biology of *Phytophthora* spp., and their biological control. (1997-2002). Final report of IPRI, 24pp.
13. Tajabadi, A., **Moradi, M.** and Banihashemi, Z. 2002. Relative resistance of new pistachio hybrid to *Phytophthora* spp. and root knot nematode (controlled pollination between wild species and *Pistacia vera* Qazvini cultivar). Final report of IPRI.
14. Tajabadi, A., **Moradi, M.** 2005. Breeding of pistachio rootstock. Final report of IPRI.

Publications

Book or Booklet

1. **Moradi, M.**, Hokmabadi, H. 2011. The Control of Mycotoxigenic Fungi in Nuts: Farm to Fork” 18 pages, in Ö. Tokusoglu & C. Hall III. (Eds): “Fruit and Cereal Bioactives: Sources, Chemistry & Applications”. CRC Press.
2. Barkai-Golan, P., and Paster, N. 2008. Mycotoxins in Fruits and Vegetables. Elsevier Inc. (396 pp). Translated to Persian by: Afsharipour, H., **Moradi, M.**, and hokmabadi, H. 2010. Published by Islamic-Azad University.
3. Moradi, M., Tajabadi, A., Sedaghati, N., Hosseini-Fard, J., Esmailpour, A., Mirdamadiha, F., and Mohammadi, A. 2008. Factors affecting contamination of pistachios by *Aspergillus* species and aflatoxin. Booklet of IPRI (In Farsi), Rafsanjan-Iran. 30 pp.
4. **Moradi, M.** 1999. Distribution of aflatoxin B1 in the pistachio nuts as measured by Enzyme-Linked immunosorbent assay (ELISA) at pre-harvest and postharvest. Booklet of IPRI (In Farsi and English), 13 pp.
5. **Moradi, M.** 1999. Pistachio diseases. In: Introduction of pistachio Pests and Diseases. Booklet of IPRI (in Farsi), pp. 43-57, IPRI Press, Rafsanjan, Iran.

Peer reviewed publications

1. Khatamidost, Z., Saberi-Riseh, R., Jamali, S., **Moradi, M.** (2019). Formulation development of some fluorescent *Pseudomonads* for controlling of *Meloidogyne incognita* on pistachio. Biological Control of Pests & Plant Diseases, 8:37-46.
2. Mohammadi Moghadam, M., Rezaee, S., Mohammadi, A.H., Zamanizadeh, H.R. and **Moradi, M.** 2019. Appl. Ent. Phytopath. 87:13-23.
3. Fani, S.R. and **Moradi, M.** (2019). A review of aflatoxin in pistachio and control Strategies. Plant Pathology Sciences 8:16-30.
4. **Moradi, M.**, Nejad, F. J., Bonjar, G. H. S., Fani, S. R., Mimand, B. M., Probst, C., & Madani, M. 2018. Efficacy of *Bacillus subtilis* native strains for biocontrol of *Phytophthora* crown and root rot of pistachio in Iran. Tropical Plant Pathology, 43(4), 306-313.
5. Fathi F, Saberi-Riseh R, **Moradi M.** The Effects of biocontrol *Bacillus* and *Pseudomonas* strains on plant growth and biochemical defense mechanisms in pistachio seedlings inoculated with *Phytophthora drechsleri*. Pistachio and Health Journal. 2018; 1 (3): 15-26
6. Mahmudi-Mimand, B., Saberi Ryseh, R., **Moradi, M.**, Alaei, H. and Mohammadi, A.M. 2018. Assessments of formulated bacterial strains against crown and root rot of pistachio trees. Iranian Journal of Plant Protection Science 49 (2): 307-299.
7. Najarpour, H., Hasanzadeh Davarani, F. and **Moradi, M.** 2018. Efficacy of Calcium Salts on Controlling *Phytophthora pistaciae*, the Cause of Pistachio (*Pistacia vera* L.) Gummosis. Journal of Nuts. 9 (2): 123-134.
8. **Moradi, M.**, Tajabadi-Pour, A., Fani, S.R. 2018. The Time of Occurrence and Physical Characteristics of Pistachio Early Splitting as Sources of Contamination with Aflatoxin in Three Commercial Cultivars of Pistachio in Kermans. Pistachio Science and Technology 4:60-75.
9. **Moradi, M.** and Fani, S.R. 2018. Review of aflatoxin in pistachio and its control strategies. Plant Pathology Sciences 7(2): 22-33.
10. **Moradi, M.**, Fani, S. R., Rosa, D., Mohammadi-Moghadam, M., Sherafathi, A. 2017. A simple procedure to evaluate competitiveness of toxigenic and atoxigenic isolates of *Aspergillus flavus* in solid and liquid media.

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Journal of Chemical Health Risks, 7 (2): 105-112.

11. **Moradi, M.**, Oerke, E.-C., Steiner, U. and Dehne, H.-W. 2017. Improved procedure for inoculum production of *Fusarium* species. Applied Entomology and Phytopathology, 84 (2): 21-31.
12. **Moradi, M.**, Mohammadi A.H. and Hagdel, M. 2017. Efficiency of Elite fungicide for control of pistachio gummosis. Journal of Nuts. 2017; 8 (1): 11-20.
13. Zeynadini-Riseh, A., Mahdikhani-Moghadam, E., Rouhani, H., **Moradi, M.**, Saberi-Riseh, R., & Mohammadi, A. (2016). Effect of some probiotic Bacteria as biocontrol agents of *Meloidogyne incognita* and evaluation of biochemical changes of plant defense enzymes on two cultivars of Pistachio. Biological Control Pest and Diseases. 5: 223-234.
14. Zeynadini-Riseh, A., Mahdikhani-Moghadam, E., Rouhani, H., **Moradi, M.**, Saberi-Riseh, R., & Mohammadi, A. (2018). Effect of some probiotic Bacteria as biocontrol agents of *Meloidogyne incognita* and evaluation of biochemical changes of plant defense enzymes on two cultivars of Pistachio. Journal of Agricultural Science and Technology. 20: 179-191.
15. Fotoohiyan, Z., Rezaee, R., Shahidi Bonjar, G.H., Mohammadi, A.H. and **Moradi, M.** 2017. Biocontrol potential of *Trichoderma harzianum* in controlling wilt disease of pistachio caused by *Verticillium dahlia*. Journal of Plant Protection Research. 57 (2): 185-193.
16. Aminizadeh S, Hossein A, Ebrahim S, Mohammad M. and **Moradi, M.** 2016. Arbuscular mycorrhizal fungi associated with pistachio trees in Rafsanjan. JPST. 1 (2) :1-21
17. Fotoohiyan, Z and **Moradi, M.** 2017. Growth promotion and defense activation by *Trichoderma* species in pistachio seedlings against *Verticillium dahlia*. Journal of Environmental Science and Management (Accepted).
18. **Fathi, F.**, Saberi-Riseh, R. and **Moradi, M.** 2016. Efficacy of *Pseudomonas* strains on moderate drought stress on growth and physiological characteristics of pistachio cultivars. Biological Control of Pest and Plant diseases, 5: 163-176.
19. Klah Namadi, M., Sedaghati, E., **Moradi, M.** and Alae, H. 2016. Effects of some bio-ecological factors on natural symbiosis of arbuscular mycorrhizal fungi with potato in West Azarbaijan Province. Biological Control of Pest and Plant diseases, 5: 67-78.
20. Mahmodi meymand, B., Saberi Riseh, R., Moradi, M., Alaei, H., Mohammadi, A.H. 2016. Induction of plant defense response against *Phytophthora* crown and root rot in pistachio by fluorescent *Pseudomonas* strains. Iranian Journal of Plant Protection Science, 47:93-105 .
21. Fotoohiyan, Z., Rezaee, R., Shahidi Bonjar, G.H., Mohammadi, A.H. and **Moradi, M.** 2015. Induction of Systemic Resistance by *Trichoderma harzianum* Isolates in Pistachio Plants infected with *Verticillium dahlia*. Journal of Nuts 6:95-111.
22. Fotoohiyan, Z., Rezaee, R., Shahidi Bonjar, G.H., Mohammadi, A.H. and **Moradi, M.** 2015. Production of chitinases and β -1, 3-glucanases by *Trichoderma harzianum* isolates for control of *Verticillium dahliae* in pistachio wilt. IJBPAS, 4(12): 1210-1238.
23. Fani, S. R., **Moradi, M.**, Zamanizadeh, H., Mirabolfathy, M. and Claudia, P. 2014. Distribution of Nontoxigenic strains of *Aspergillus flavus* throughout pistachio growing areas in Iran. Applied Entomology and Phytopathology, 81 (2).
24. Fani, S. R., **Moradi, M.**, Probst, C., Zamanizadeh, H. R., Mirabolfathy, M., Haidukowski, M., & Logrieco, A. F. (2014). A critical evaluation of cultural methods for the identification of atoxigenic *Aspergillus flavus* isolates for aflatoxin mitigation in pistachio orchards of Iran. *European Journal of Plant Pathology*, 140(4), 631-642.
25. Khatamidoost, Z., Jamali, S., **Moradi, M.**, & Saberi Riseh, R. (2015). Effect of Iranian strains of *Pseudomonas* spp. on the control of root-knot nematodes on Pistachios. *Biocontrol Science and Technology*, 25(3), 291-301.
26. **Moradi, M.**, Fani, S. R. and Hokmabadi, H. 2015. A Study Concerned with the Factors Affecting the Fungal Growth and Aflatoxin Production During Storage of Pistachio in Kerman Province. Food Technology and Nutrient, 12:83-92.
27. **Moradi, M.**, Fani, S. R. and Massomi, H. 2015. Population Density of *Aspergillus* Species Belong to Section Flavi and Nigri on Pistachio Nut in Kerman Province. Journal of Applied Research in Plant Protection 3:79-91.
28. Dargahi, R., **Moradi, M.**, Fani S. R. 2014. Evaluation of aflatoxin in different parts of pistachio fruit and processing stages. Journal of Food Hygiene, 3:21-31.
29. Fani, S. R., **Moradi, M.**, Esmailzadeh Hosseini, S. A., Dashtekian, K. and Sarpeleh, A. 2014. Efficacy of cyazofamid (SC 400) Fungicide in the Control of Downy Mildew of Greenhouse Cucumber. Pesticides in Plant Protection Sciences, 1: 103-114.
30. Fani, S. R, **M. Moradi**, A. Tajabadipour, R. dargahi, and M. Mirabolfathy. 2014. The role of early splitting in contamination of pistachio nuts by *Aspergillus* species and aflatoxin in kerman province. Journal of Food Technology and Nutrient 11: 97-105.

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31. Fani, S.R., **Moradi, M.**, Alipour, M., Sherafathi, A., Mohamadi-Moghadam, M., Sedaghati, E. and Khodaygan, P. 2014. Efficacy of *Trichoderma harzianum* native strains for biocontrol of pistachio gummosis. Iranian Journal of Plant Protection Science, 44: 243-252.
32. Fani, S.R., Javanshah, J. **Moradi, M.** 2014. Prevalence of aflatoxin in Rafsanjan processed pistachios during 2011-12, and its relation with time of harvest. *Tooloo Behdasht*, 12 (4): 175-189.
33. Khodaygan, P., Moslemkhani, C., Shahbazi, R., **Moradi, M.**, & Habibi, H. 2013. Molecular identification of 16S rII phytoplasma group in commercial pistachio cultivars in Iran. *Archives of Phytopathology and Plant Protection*, (ahead-of-print), 1-8.
34. Shekari, F., Pour, A. H., Rezanejad, F., Shekarian, A., **Moradi, M.**, Bertaccini, A., & Maini, S. 2011. The preservation of lime witches' broom phytoplasma in key lime by tissue culture. Bulletin of Insectology 64 (Supplement): S201-S202, 2011
35. **Moradi, M.**, Oerke, E.-C., Steiner, U., Schellander, K. and Dehne, H.-W. 2010. Microbiological and SYBR Green real-time PCR detection of the major *Fusarium* head blight pathogens. *Microbiology* 79:646-654.
36. **Moradi, M.**, Hokmabadi, H., Mirabolfathy, M. 2010. Density fluctuations of two major *Aspergillus* species airborne spores in pistachio orchards growing regions of Iran. *International Journal of Nuts and related science*, 2010, 1: 60-70
37. **Moradi, M.**, and Mirabolfathy, M. 2007. Changing of *Aspergillus* species populations in pistachio processing terminals. *Iranian Journal of Pajouhesh and Sazandeghi* 77: 104-110.
38. Salehi, F., **Moradi, M.**, Mirabolfathy, M. and Asgharzadeh, N. 2008. Influence of VAM inoculation and phosphorus levels on uptake of P, Zn, Ca, Mg elements and growth of pistachio seedlings. *Iranian Journal of Pajouhesh and Sazandeghi* 21: 48-56.
39. **Moradi, M.**, et al. 2004. The role of plant debris and manures on the density of population *Aspergillus* species in the pistachio orchards. *Iranian Journal of Plant Pathology* 40: 221-234, En 55-58.
40. Banihashemi, Z. and **Moradi, M.** 2004. The frequency of isolation of *Phytophthora* spp. from crown and root of pistachio nut tree and reaction of the crown and root to the causal agents. *Iranian Journal of Plant Pathology* 40: 57-77, En 13-17.

Papers in national or international symposiums

1. Mahmoodi meymand, B, Saberi Riseh, R, **Moradi, M.**, Alaei, H, Mohammadi, A.H. 2016. Effects of bacterial strains on crown and root rot of pistachio trees. 1st Iran's Pistachio Conference. 347-355.
2. **Moradi M.**, Fani S.R. 2014. The influence of parameters affecting *Aspergillus flavus* and aflatoxin production during storage of pistachio in Iran. In *Proceeding of: International Conference of Mycotoxin 2014*, Beijing, China.
3. **Moradi M.**, Fani S.R. and Logrieco, A. F. 2013. The status of aflatoxin in pistachio. In *Proceeding of: ISM-MycRed International Conference Europe*, Martina Franca, Italy.
4. Fani, S.R., **Moradi, M.** and Zamanizadeh, H. 2013. Partial Study of Aflatoxin Gene Cluster in Nontoxigenic *Aspergillus flavus* Isolates. 12th Iranian Genetics Congress. 5p.
5. Fani S.R., **Moradi M.**, Zamanizadeh H., Mirabolfathy M. and Probst C., P., and Logrieco, A.F. 2013. Distribution of atoxigenic *Aspergillus flavus* in pistachio nut and orchards soil in Iran. In *Proceeding of: ISM-MycRed International Conference Europe*, Martina Franca, Italy.
6. Fani S.R., **Moradi M.**, Zamanizadeh H., Mirabolfathy M. and Probst C, Logrieco A.F. and Zaree Mahmoud-Abadi, M. 2013. Efficacy of atoxigenic strains of *Aspergillus flavus* for aflatoxin biocontrol in pistachio nuts. In *Proceeding of ISM-MycRed International Conference Europe*, Martina Franca, Italy.
7. Rahmani, R., Sedaghati, E., Khodaygan, P., Saberi, R. and **Moradi, M.** 2012. Prevalence of *Aspergillus* species in vineyard in west Azerbaijan province. *Acta Hort. (ISHS)* 963:87-89.
8. Ghaffari, F., Masoomi, M., Mohammadi, H. and **Moradi, M.** 2012. Effect of antagonistic yeasts isolated from pistachio orchards against *Aspergillus flavus*. *Acta Hort. (ISHS)* 963:109-112.
9. **Moradi, M.**, Zamanizadeh, H., Fani, S.R. and Sedaghati, E. 2012. Specific identification of atoxigenic strains of *Aspergillus flavus* isolated from pistachio orchards of Iran and detection of aflD, aflR, aflJ, aflG and c3 region. *Acta Hort. (ISHS)* 963:95-97.
10. **Moradi, M.**, Dargahi, R., Sherafati, A., Fani, S.R., Sedaghati, E., Mohammadi-Moghaddam, M. and Mirabolfathy, M., 2011, September. Screening of Atoxigenic *Aspergillus flavus* Isolates in Pistachio

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- Producing Areas of Iran. In *I International Symposium on Mycotoxins in Nuts and Dried Fruits 963* (pp. 91-93).
11. **Moradi, M.**, Fani, S.R. and Zamanizadeh, H., 2011. Comparison between Cultural Methods and TLC for Detection of Atoxigenic Strains of *Aspergillus flavus* Isolated from Iranian Pistachio. In *I International Symposium on Mycotoxins in Nuts and Dried Fruits 963* (pp. 33-35).
 12. **Moradi, M.**, Oerke, E.-C., Steiner, U. and Dehne, H.-W. 2006. Interactions among *Fusarium* species in wheat ears. 55. Deutsche Pflanzenschutztagung, Geottingen Germany.
 13. Homkabadi, H. and **Moradi, M.** 2007. Risk of superficial infection of *Aspergillus* spores in pistachio nut contamination by *Aspergillus* species. *The First Iranian Congress on Dried Fruit*, P: 61.
 14. Hokmabadi, H., Tajabadi Pour, A., **Moradi, M.**, Sedaghati, N., Esmaeilpour, A., Shaker Ardekani, A., Mohamadi Moghadam, M., Mirdamadiha, F. and Arjmand, M. 2007. A part of Iranian Pistachio Research Institute (TPRI), Research funding related to pistachio hygienic production. *Acta Horticulture 741*:259-265.
 15. **Moradi, M.**, and Javanshah, A. 2006. Distribution of aflatoxin in processed pistachio nut terminals. *Acta Horticulture 726*: 431-436.
 16. Mirabolfathy, M., **Moradi, M.** and Waliyar, F. 2006. Variability in aflatoxingenic potential and sclerotial production of *Aspergillus flavus* strains isolated from pistachio orchards. *Acta Horticulture 726*: 619-626.
 17. Tajabadi-pour, A., **Moradi, M.** and Zadehparizi, R. 2006. Closed pollination for preparing interspecific hybridization of pistachio genus and determination of hybrid resistant to *Phytophthora drechleri*. *Acta Horticulture 726*: 637-642.
 18. **Moradi, M.**, and Banihashemi, Z. 2002. Monthly fluctuations of *Phytophthora* spp. and isolation antagonist fungi and bacteria to pistachio gummosis. In Kerman province. *Applied scientific congress of pistachio*, Kerman, Iran. Pp: 65-66.
 19. **Moradi, M.**, and Ershad, J. Mirabolfathy, M. 2002. Comparison of population density *Aspergillus* species and contamination to aflatoxin in different processing systems and the processed pistachio nuts. *Applied scientific congress of pistachio*, Kerman, Iran. pp: 67-68.
 20. **Moradi, M.**, Massah, A., and Masomi, H. 2000. Enzyme-linked immunosorbent assay (ELISA) for aflatoxin B1 estimation in pistachio. *Proceeding of the 14th Iranian Plant Protection Congress*, Isfahan, Iran. P: 328.
 21. **Moradi, M.**, and Banihashemi, Z. 2000. Isolation and identification of *Phytophthora* species from crown and root of pistachio trees in the Kerman and Fars provinces and determination of relative resistance of Gazvini, Sharacks and Badami rootstocks to them. *Proceeding of the 14th Iranian Plant Protection Congress*, Isfahan, Iran. P: 127.
 22. **Moradi, M.**, and Ershad, J. 2000. Determination of density of the molds *Aspergillus* species in the Kerman pistachio orchards in different months of years. *Proceeding of the 14th Iranian Plant Protection Congress*, Isfahan, Iran. P: 128.
 23. **Moradi, M.** 1999. Epidemiology of *Aspergillus flavus* and aflatoxin production in pistachio production processing in Iran. Extension booklet of IPRI (In Farsi), Rafsanjan-Iran. 31pp.
 24. **Moradi, M.**, and Salehi, F. 1999. Relationship between shell discoloration of pistachio nut, fungi decay and insect's infestation. *The First National Symposium on Aflatoxin*. P: 28, (In Farsi and English), Rafsanjan-Iran.

Research interests

- Ecology, biology and risk of mycotoxins in food and feed and strategy to manage mycotoxigenic fungi
- Mass production of *Trichoderma* for biological control.
- Evaluation of biological agents to control of soil borne pathogens

Students

M.Sc.

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Alipoor M. 2010-2013. Frequency of *Trichoderma* species in Pistachio orchards and their activity against of crown and root rot of pistachio trees.

Jafari, F. 2010-2013. Effects of bacterial strains on *Phytophthora* species; the causal agents of crown and root rot of pistachio trees.

Ghafari, F. 2010-2013. Competitive ability of bacterial strains to inhibit toxigenic strains of *Aspergillus flavus* on different substrates.

Hajabdolahi, M. 2011-2014. Biological control of *Phytophthora* crown and root rot of pistachio

Goreshi, F. 2011-2014. Effects of *Bacillus* strains on toxigenic strains of *Aspergillus flavus* on the kernel of pistachios.

Mahmoudi, B. 2011-2015. Biological control of crown and root rot of pistachio using bacterial strains

Rohani, M. 2011-2014. Competitive ability of yeasts strains against of *Aspergillus flavus* in soil and plant debris

Ahmadi, M. 2013-2015. Comparison gene cluster of aflatoxin production in toxigenic and atoxigenic strains of *Aspergillus flavus*.

Fathi, F. 2012-2015. The role of systemic resistance to control pistachio crown and root rot

Pourhosseini, M. 2014-2016. Cyclopiazonoc production in atoxigenic *Aspergillus flavus* strains.

Mahmoudi, M. 2015-...Competitive ability of yeast strains to reduce the populations density of toxigenic strains of *Apergillus flavus* and aflatoxin in pistachios

Saeedi, S. 2017-... Biological control of root knot nemathod using native fungal strains.

Hejri, J. 2017-.... Potential ability of yeast isolates to reduce growth and aflatoxin production by toxigenic *A. flavus*

Ph.D. students

Fani, S. R. 2011-2015. Application of atoxigenic strains of *Aspergillus* species to manage the aflatoxin contamination in pistachio nuts.

Fotoohyian, Z. 2011-2015. Impact of *Trichoderma harzianum* to control pistachio wilt caused by *Verticillium dahlia*

Zeoinadini, A. 2012-2017. Molecular and morphological *Meliodyne* population in pistachio orchards.

Tavasoli, E. 2016-...Etiology of pistachio die-back in pistachio orchards.

Specific Training course

- Training program on mycotoxin analysis in Technical University of Munich, Germany, 03-14 August 2009.
- Sampling methodology for aflatoxin and mold inspection in pistachio, 28 September to 2 October 2009, IPRI-FAO (Setting up a training course at IPRI in contribution with FAO).

Skills

- Principles of DNA and RNA based molecular techniques
- Identification the species of *Fusarium*, *Aspergillus* and *Trichoderma* using morphological and new molecular assay tools
- Principles of electrophoresis, PCR, RFLP, AFLP and Real-Time PCR techniques
- Principles of Plant Pathology laboratory techniques, isolation, identification and taxonomy, inoculum production (recently I have developed a new, rapid and simple spore production method in *Fusarium* species), mass production of *Trichoderma* for biological control, ecology and biology of mycotoxigenic fungi (especially *Fusarium* and *Aspergillus*) and inoculation tests
- Control of phytopathogenic fungi using trunk injection of fungicides
- Mycotoxin analysis
- Computing, Bioinformatics software's and programs

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Referees

Dr. Mehrdad Madani, Research associate University of Manitoba--Winnipeg- Canada, 13 Freedman -362 Ellis Building, Soil science-University Manitoba, Tel. 2048807761, +98 9131003862, Meh.Madani@yahoo.com.

Dr. Amanollah Javanshah Head of Iranian Pistachio Research Institute P.O. Box 77175-435 Rafsanjan – Iran. Tel.: (+98) 391 4225201 E. Mail: javanshah@pri.ir

Dr. Mansoreh Mirabolfathy, Plant Pest and Diseases Research Institute P.O.Box1454,Tehran 19395, Iran mmirab2000@yahoo.com mmir80@hotmail.com, +98 9123273414

Dr. John Maina Wagacha, The Institute for Climate Change and Adaptation, University of Nairobi, maina.wagacha@uonbi.ac.ke OR maina.wagacha@yahoo.com +254-715693662 or +254-733217407.

Dr. Claudia Probst, Department of WSU Prosser Irrigated Agriculture Research & Extension Center, Washington State University, claudia.probst@wsu.edu, (509) 786-9225 Inter: 6-1225