

CURRICULUM VITAE



SUMMARY

Mehdi RAZZAGHI-ABYANEH, Ph.D

Associate Professor and head

Address: No. 69, 12 Farvardin Street, Department of Mycology, Pasteur Institute of Iran, Tehran, 1316943551, Iran

Phone: +98 (21) 66496435

Fax: +98 (21) 66465132

Mobile: +98 (912) 3774027

E.mail addresses: mrab442@yahoo.com & mrab442@pasteur.ac.ir

Dr. Mehdi Razzaghi-Abyaneh was born in Tehran-Iran. He obtained his PhD degree in Mycology from Tarbiat Modares University (Iran, 2000). He pursued a training course on identification of antifungal compounds from bioactive plants at the Graduate School of Agriculture, Tokyo University, in the laboratory of Applied Biological Chemistry during 2006-2007. He is currently an associate professor and head of Mycology Department at the Pasteur Institute of Iran (Tehran, Iran), where he is working on mycotoxins and mycotoxigenic fungi for more than 10 years. His research interests encompass biologically active compounds of plant, fungal and bacterial origins with antifungal properties against a broad spectrum of fungal pathogens. He is also investigating ecology and genetic diversity of *Aspergillus* section *Flavi* especially aflatoxin-producing species from soil and other natural habitats. He has supervised a large number of PhD and MSc theses. He has published over fifty papers in international journals and a number of book chapters. He has demonstrated for the first time a phenylpropanoid compound named

"Dillapiol" isolated from *Anethum graveolens* as the specific inhibitor of the biosynthesis of aflatoxin G group. He is working on the chemical basis of plant-fungal interactions and determining mode of action of antifungal compounds at cellular and molecular levels.

FIRST NAME: Mehdi

SURNAME: Razzaghi-Abyaneh

DATE & PLACE OF BIRTH: 27/April/1969 - Tehran/IRAN

UNIVERSITY QUALIFICATIONS:

1- Doctor of Veterinary Medicine (DVM; 1994): Faculty of Veterinary Sciences, Tehran University, IRAN.

2- Philosophy Degree (Ph.D.; 2000): Department of Mycology, Faculty of Medical Sciences, Tarbiat Modarres University, Tehran, IRAN.

EMPLOYMENT:

1-Assistant professor (from 2002 to 2008)

2- Associate professor (since 2008)

PROFESSIONAL AFFILIATIONS:

1. Member, World Veterinary Association (Since 1994)

2. Member, Iranian Veterinary Council (Since 2000)

3. Member, European Mycological Association (Since 2003)

4. Member, National Board of Medical Mycology, Ministry of Health (Since 2007)

6. Member of ISHAM (Since 2009).

ORGANIZER:

1.The first workshop in **Advanced Techniques in Medical Mycology**, 23 -25 June 2001, Tarbiat Modarres University, Tehran, IRAN.

2. The workshop of **Basic Techniques in Mycology** , 18 - 20 December 2002, Damghan Applied High Education Institute , Damghan , IRAN.

3. **PCR and its Application in Veterinary Medicine**, 17-18 February 2004, TAT Organization, Tehran, IRAN.
4. **Co-Chairman** of "1st International Symposium on Mycotoxins in Nuts and Dried Fruits", 10-12 September, Damghan, IRAN.

AWARDS:

1. Winning the year book price of the Ministry of Health and Medical Education, Iran for the book "*Mycotoxins: mycological ,chemical and environmental aspects*" in 2002.
2. The 18th International Congress of Clinical Chemistry and Laboratory Medicine, 20-25 October 2002, Kyoto, JAPAN.
3. Tenth International Congress of Culture Collections (ICCC-10), 10-15 October 2004, Tsukuba, JAPAN.

BOOKS (EDITED):

1. Allameh, A. and Razzaghi-Abyaneh, M. *Mycotoxins: mycological ,chemical and environmental aspects.*, Emam Hossein University Publ., First edition (698 pages in Persian),Tehran, IRAN, 2001.
2. Razzaghi-Abyaneh, M. and Shams, M .*Veterinary General Mycology*, Ministry of Jihad Agriculture Publ., (420 pages in Persian), 2006.
3. Razzaghi-Abyaneh, M. and Shams, M .*Veterinary Mycotic Diseases*, Ministry of Jihad Agriculture Publ., (250 pages in Persian), 2006.
4. Shams, M., Alinejad, S. and Razzaghi-Abyaneh, M. *Marine Mycology and Mycotic Diseases* , Ministry of Jihad Agriculture Publ., First Edition, (192 pages in Persian), 2006.
5. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M., Rezaee, M.B., Sakuda, S. *Natural Aflatoxin Inhibitors from Medicinal Plants*. **In:** *Mycotoxins in Food, Feed and Bioweapons* (M. Rai and A. Varma, eds.), Springer-Verlag Publication, pp. 329-354, 2010.
6. Razzaghi-Abyaneh, M., Pilehvar-Soltanahmadi, Y., Shams-Ghahfarokhi, M., Alinezhad, S. *Aflatoxins: Public Health and Agricultural Significance*. Ministry of Jihad Agriculture Publ., First Edition, (216 pages in Persian), 2011.
7. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M., Chang, P.-K. *Aflatoxins: Mechanisms of Inhibition by Antagonistic Plants and Microorganisms*. **In:** *Aflatoxins:*

- Biochemistry and molecular Biology (Ramon G. Guevara-Gonzalez, eds.), INTECH Open Access Publisher, 2011.
8. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M. *Natural Inhibitors of Food-borne Fungi from Plants and Microorganisms*. **In:** Natural Antimicrobials in Food Safety and Quality (M. Rai, M. Chikindas, eds.), CABI Publisher, 2011.
 9. Razzaghi-Abyaneh, M. Aflatoxins: Recent Advances and Future Prospects. INTECH Open Access Publisher, 2013. (ISBN 978-953-51-0904-4)
 10. Razzaghi-Abyaneh, M., Mahendra Rai. Antifungal Metabolites from Plants. Springer, 2013. (ISBN 978-3-642-38075-4)
 11. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M. Medical Mycology Current Trends and Future Prospects, First edition, (442 pages in english) ,2015. (ISBN-10:1498714218, ISBN-13:978-1498714211)

RESEARCH PROJECTS (MANAGER):

1. Ultrastructural study of the effect of neem (*Azadirachta indica* A.Juss) on *Aspergillus flavus* group with special reference to endogenous aflatoxin. **Project No. 178**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN (Finished and approved in 2004).
2. Production and characterization of hybridoma based anti-aflatoxin B1 monoclonal antibodies and their application in ELISA and immunoaffinity techniques. **Project No. 209**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN (Finished and approved in 2007).
3. Study on the inhibitory effects of *Carum carvi* (Caraway) essential oil and its constituents on growth and aflatoxin production by *Aspergillus parasiticus*. **Project No. 354**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN (Finished and approved in 2008).
4. Isolation and identification of inhibitory bacteria for growth and aflatoxin production by *Aspergillus parasiticus* from soil samples of pistachio and maize orchards. **Project No. 415**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN (Finished and approved in 2010).
5. Isolation and identification of aflatoxin-inhibitory compound (s) from *Foeniculum vulgare* Mill. (Fennel) essential oil using chromatographic and spectrometric

- methods. **Project No. 467**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN (Finished and approved in 2011).
6. Isolation and molecular identification of *Aspergillus* section *Flavi* members isolated from pistachio orchard soils. **Project No. 498**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN (to be continued).
 7. Isolation and identification of the inhibitory compounds for *Aspergillus parasiticus* growth and aflatoxin production from bioactive medicinal plants using chromatographic and spectrometric methods. **Project No. 528**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN (to be continued).
 8. The effect of α -bisabolol on growth, gliotoxin production and erg6 gene expression of enzyme c-24 methyl transferases involved in bio-synthesis of ergosterol in *Aspergillus fumigatus* pathogenic fungi. **Project No. 647/1**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN. (Finished and approved in 2015)
 9. Selenium Sulfide nanoparticles biosynthesis using fungi isolated from sulfur soil areas and physical characterization and invitro antifungal activity. **Project No. 766**, Dept. of Mycology, Pasteur Institute of Iran, Tehran, IRAN. (to be continued).

PUBLICATIONS (FULL PEER-REVIEWED ARTICLES):

1. Razzaghi-Abyaneh, M., Allameh, A., and Shams, M. (2000) Screening of aflatoxin - producing mould isolates based on fluorescence production on a specific medium under ultraviolet light. *Acta Medica Iranica* 38: 67-73.
2. Shams, M., Rassaei, M.J., Moosavi, M., and Razzaghi-Abyaneh, M. (2001) Identification of *Malassezia* species in patients with pityriasis versicolor submitted to the Razi Hospital in Tehran. *Iranian Biomedical Journal* 5: 121-126.
3. Allameh, A., Razzaghi-Abyaneh, M., Shams, M., Rezaei, M.B., and Jaimand, K. (2002) Effect of neem leaf extract on production of aflatoxins and activities of fatty acid synthetase, isocitrate dehydrogenase, and glutathione S-transferase in *Aspergillus parasiticus*. *Mycopathologia* 154: 79 - 84.
4. Shams, M., Razafsha, M., Allameh, A., and Razzaghi-Abyaneh, M. (2003) Inhibitory effects of aqueous onion and garlic extracts on growth and keratinase activity in *Trichophyton mentagrophytes*. *Iranian Biomedical Journal* 7: 113-118.

5. Rasooli, I., and Razzaghi-Abyaneh, M. (2004) Inhibitory effects of Thyme oils on growth and aflatoxin production by *Aspergillus parasiticus*. **Food Control** 75: 79-83.
6. Shams, M., Fazli, A., Lotfi, A., and Razzaghi-Abyaneh, M. (2004) Cellobiose dehydrogenase production by the genus *Cladosporium*. **Iranian Biomedical Journal** 8 :107-111.
7. Shams, M., Razzaghi-Abyaneh, M., Bahadori, S., Eslami, A., Zare, R., and Ebrahimi, M. (2004) Screening of soil and sheep faecal Samples for predacious fungi: isolation and characterization of a nematode-trapping fungus *Arthrobotrys oligospora*. **Iranian Biomedical Journal** 8: 135-142.
8. Shams Ghahfarokhi, M., and Razzaghi-Abyaneh, M. (2004) Rapid identification of *Malassezia furfur* from other *Malassezia* species: A major causative agent of pityriasis versicolor. **Iranian Journal of Medical Sciences** 29: 36-39.
9. Shams Ghahfarokhi, M., Goodarzi, M., Razzaghi-Abyaneh, M., Al-Tiraihi, T., and Seyedipour, G. (2004) Morphological evidences for onion-induced growth inhibition of *Trichophyton rubrum* and *Trichophyton mentagrophytes*. **Fitoterapia** 75: 645-655.
10. Eslami, A., Ranjbar-Bahadori, S., Zare, R., and Razzaghi-Abyaneh, M. (2005) The predatory capability of *Arthrobotrys cladodes* var. *macroides* in the control of *Haemonchus contortus* infective larvae. **Veterinary Parasitology** 130: 263-266.
11. Razzaghi-Abyaneh, M., Allameh, A., Al-Tarihi, T., Shams, M., Ghorbanian, M. (2005) Morphological alterations in toxigenic *Aspergillus parasiticus* exposed to neem (*Azadirachta indica*) leaf and seed aqueous extracts. **Mycopathologia** 159: 665-670.
12. Allameh, A., Safamehr, A., Mirhadi, S.A., Shivazad, M., Razzaghi-Abyaneh, M., and Afshar-Naderi, A. (2005) Evaluation of biochemical and production parameters of broiler chicks fed ammonia treated aflatoxin contaminated maize grains. **Animal Feed Science and Technology** 122: 289 -301.
13. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M., Allameh, A., Kazeroon-Shiri, M, Ranjbar-Bahadori, S., Mirzahoseini, H., and Rezaee, M.B. (2006) A survey on distribution of *Aspergillus* section *Flavi* in corn field soils in Iran: population patterns based on aflatoxins, cyclopiazonic acid and sclerotia production. **Mycopathologia** 161:183 -192.

14. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M., Eslamifar, A., Schmidt, O.J., Gharebaghi, R., Karimian, M., Naseri, A., and Sheikhi, M. (2006) Inhibitory effects of Akacid (plus) on growth and aflatoxin production by *Aspergillus parasiticus*. *Mycopathologia* 161:245-249.
15. Shams-Ghahfarokhi, M., Shokoohamiri, MR., Amirrajab, N., Moghadasi, B., Ghajari, A., Zeini, F., Sadeghi, G., and Razzaghi-Abyaneh, M. (2006) In vitro antifungal activities of *Allium cepa*, *Allium sativum* and ketoconazole against some pathogenic yeasts and dermatophytes. *Fitoterapia* 77:321-323.
16. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M., Kawachi, M., Eslamifar, A., Schmidt, O.J., Schmidt, A., Allameh, A., and Yoshinari, T. (2006) Ultrastructural evidences of growth inhibitory effects of a novel biocide, Akacid®plus, on an aflatoxigenic *Aspergillus parasiticus*. *Toxicon* 48: 1075-1082.
17. Pirali-Kheirabadi, K., Haddadzadeh, H., Razzaghi-Abyaneh, M., Bokaie, S., Zare, R., Ghazavi, M., and Shams-Ghahfarokhi, M. (2007) Biological control of *Rhipicephalus (Boophilus) annulatus* by different strains of *Metarhizium anisopliae*, *Beauveria bassiana* and *Lecanicillium psalliotae* fungi. *Parasitology Research* 100: 1297-1302.
18. Razzaghi-Abyaneh, M., Yoshinari, T., Shams-Ghahfarokhi, M., Rezaee, M.B., Nagasawa, H., Sakuda, S. (2007) Dillapiol and apiol as specific inhibitors of the biosynthesis of aflatoxin G₁ in *Aspergillus parasiticus*. *Bioscience, Biotechnology and Biochemistry* 71:2329-2332.
19. Pirali-Kheirabadi, K., Razzaghi-Abyaneh, M. (2007) Biological activities of chamomile (*Matricaria chamomile*) flowers' extract against the survival and egg laying of the cattle fever tick (Acari Ixodidae). *Journal of Zhejiang University SCIENCE B* 8: 693-696.
20. Ghorbanian, M., Razzaghi-Abyaneh, M., Allameh, A., Shams-Ghahfarokhi, M., Qorbani, M. (2007) Study on the effect of neem (*Azadirachta indica* A. Juss) leaf extract on the growth of *Aspergillus parasiticus* and production of aflatoxin by it at different incubation times. *Mycoses* 51: 35-39.
21. Eslamifar, A., Ramezani, A., Razzaghi-Abyaneh, M., Falahian, V., Mashayekhi, P., Hazrati, M., Askari, T., Fayaz, A., Aghakhani, A. (2008) Animal bites in Tehran, Iran. *Archive of Iranian Medicine* 11: 200-202.
22. Haddadzadeh, H.R., Pirali-Kheirabadi, K., Razzaghi-Abyaneh, M., Zare, R., Ranjbar-Bahadori, S., Rahbari, S., Nabian, S., Rezaeeyan, M., and Shams-

- Ghahfarokhi, M. (2008) Preliminary study in virulence of eleven strains of entomopathogenic fungi; *Beauveria bassiana*, *Metarhizium anisopliae* and *Lecanicillium psalliotae* on *Boophilus annulatus* in Iran. *Journal of Veterinary Research* 62: 113-118.
23. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M., Yoshinari, T., Rezaee, M.B., Jaimand, K., Nagasawa, H., Sakuda, S. (2008) Inhibitory effects of *Satureja hortensis* L. essential oil on growth and aflatoxin production by *Aspergillus parasiticus*. *International Journal of Food Microbiology* 123: 228-233.
 24. Ziglari, T., Allameh, A., Razzaghi-Abyaneh, M., Khosravi, A.R., and Yadegari, M.H. (2008) Comparison of glutathione s-transferase activity and concentration in aflatoxin-producing and their non-toxicogenic counterpart isolates. *Mycopathologia* 166:219-226.
 25. Zare, M., Shams-Ghahfarokhi, M., Ranjbar-Bahadori, S., Allameh, A., and Razzaghi-Abyaneh, M. (2008) Comparative study of the major Iranian cereal cultivars and some selected spices in relation to support *Aspergillus parasiticus* growth and aflatoxin production. *Iranian Biomedical Journal* 12: 229-236.
 26. Razzaghi-Abyaneh, M., Shams-Ghahfarokhi, M., Rezaee, M.B., Jaimand, K., Alinezhad, S., Saberi, R., and Yoshinari, T. (2009) Chemical composition and antiaflatoxic activity of *Carum carvi* L., *Thymus vulgaris* and *Citrus aurantifolia* essential oils. *Food Control* 20:1018-1024.
 27. Mirzahosseini, H., Omidinia, S., Shams-Ghahfarokhi, M., Sadeghi, G., Razzaghi-Abyaneh, M. (2009) Application of PCR-RFLP to rapid identification of the main pathogenic dermatophytes from clinical specimens. *Iranian Journal of Public Health* 38: 18-24.
 28. Riazipour, M., Imani-Fooladi, A.A., Razzaghi-Abyaneh, M. (2009) Natural occurrence of T2-toxin in domestic and imported rice. *Iranian Journal of Public Health* 38: 111-116.
 29. Pirali-Kheirabadi, K., Razzaghi-Abyaneh, M., Halajian, A. (2009) Acaricidal effect of *Plargonium roseum* and *Eucalyptus globulus* essential oils on adult stage of *Rhipicephalus (Boophilus) annulatus* in vitro. *Veterinary Parasitology* 162: 346-349.
 30. Tolouee, M., Alinezhad, S., Saberi, R., Eslamifar, A., Zad, S.J., Jaimand, K., Taeb, J., Rezaee, M. -B., Kawachi, M., Shams-Ghahfarokhi, M., Razzaghi-Abyaneh, M. (2010) Effect of *Matricaria chamomilla* L. flower essential oil on the growth and

- ultrastructure of *Aspergillus niger* van Tieghem, *International Journal of Food Microbiology* 139: 127-133.
31. Ranjbar-Bahadori, S., Razzaghi-Abyaneh, M., Bayat, M., Eslami, A., Pirali, K., Shams-Ghahfarokhi, M., Lotfollahzadeh, S. (2010) Studies on the effect of temperature, incubation time and in vivo gut passage on survival and nematophagous activity of *Arthrobotrys oligospora* var. *oligospora* and *A. cladodes* var. *macroides*. *Global Veterinaria* 4: 112-117.
 32. Alinezhad, S., Kamalzadeh, A., Shams-Ghahfarokhi, M., Rezaee, M-B., Jaimand, K., Kawachi, M., Zamani, Z., Tolouei, R., Razzaghi-Abyaneh, M. (2011) Search for novel antifungals from 49 indigenous medicinal plants: *Foeniculum vulgare* and *Platycladus orientalis* as strong inhibitors of aflatoxin production by *Aspergillus parasiticus*. *Annals of Microbiology* 61: 673-681.
 33. Asghar Sepahvand, Masoomeh Shams-Ghahfarokhi, Abdolamir Allameh, Zahra Jahanshiri, Mojdeh Jamali, Mehdi Razzaghi-Abyaneh.(2011) A survey on distribution and toxigenicity of *Aspergillus flavus* from indoor and outdoor hospital environments. *Folia microbiologica* 56 :527 - 534
 34. G Sadeghi, M Abouei, M Alirezaee, R Tolouei, M Shams-Ghahfarokhi, E Mostafavi, M Razzaghi-Abyaneh.(2011).A 4-year survey of dermatomycoses in Tehran from 2006 to 2009. *Journal de Mycologie Médicale/Journal of Medical Mycology* 21 :260-265
 35. Mehdi Razzaghi-Abyaneh, Masoomeh Shams-Ghahfarokhi ,Perng-Kuang Chang.(2011). Aflatoxins: mechanisms of inhibition by antagonistic plants and microorganisms. *INTECH Open Access Publisher*
 36. AR Ranjbariyan, M Shams-Ghahfarokhi, S Kalantari, M Razzaghi-Abyaneh.(2011). Molecular identification of antagonistic bacteria from Tehran soils and evaluation of their inhibitory activities toward pathogenic fungi. *Iranian journal of microbiology* 3 : 14
 37. Mehdi Razzaghi-Abyaneh, Masoomeh Shams-Ghahfarokhi.(2011). 13Natural Inhibitors of Food-borne Fungi from Plants and Microorganisms. *Natural antimicrobials in food safety and quality* 182-203
 38. S Alinezhad, M Tolouee, A Kamalzadeh, AA Motalebi, M Nazeri, M Yasemi, M Shams-Ghahfarokhi, R Tolouei, M Razzaghi-Abyaneh.(2011). Mycobiota and

aflatoxin B1 contamination of rainbow trout (*Oncorhynchus mykiss*) feed with emphasis to *Aspergillus* section Flavi. *Iranian Journal of fisheries* 10 : 363-374

39. S Alinezhad, A Kamalzadeh, MB Rezaee, K Jaimand, M Shams-Ghahfarokhi, M Razzaghi-Abyaneh.(2011). Inhibitory effects of some native medicinal plants on *Aspergillus parasiticus* growth and aflatoxin production. *I International Symposium on Mycotoxins in Nuts and Dried Fruits* 963 : 207-210

40. S Kalantari, M Jamali, R Tolouei, Y Pilehvar-Soltanahmadi ,A Asgharzadeh, M Asmar, M Aslani, M Shams-Ghahfarokhi, M Razzaghi-Abyaneh.(2011). Inhibition of *Aspergillus parasiticus* Growth and Aflatoxin Production by Antagonistic Bacteria Isolated from Soils of Pistachio Orchards. *I International Symposium on Mycotoxins in Nuts and Dried Fruits* 963 :19-22

41. Masoomeh Shams-Ghahfarokhi, Mehdi Razzaghi-Abyaneh.(2011).The effects of oligo-2)-2 ethoxy) ethoxyethyl guanidinium chloride (Akacid® plus) on fluconazole resistance *Candida glabrata*, *C. tropicalis* and *C. parapsilosis*.

42. A Jamalian, M Shams-Ghahfarokhi, K Jaimand, N Pashootan, A Amani, M Razzaghi-Abyaneh.(2012). Chemical composition and antifungal activity of *Matricaria recutita* flower essential oil against medically important dermatophytes and soil-borne pathogens. *Journal de Mycologie Médicale/Journal of Medical Mycology* 22 : 308-315

43. Mojdeh Jamali, Mohammad-Ali Ebrahimi, Morteza Karimipour ,Masoomeh Shams-Ghahfarokhi, Navid Dinparast-Djadid, Sanaz Kalantari, Yones Pilehvar-Soltanahmadi, Akram Amani, Mehdi Razzaghi-Abyaneh.(2012). An insight into the distribution, genetic diversity, and mycotoxin production of *Aspergillus* section Flavi in soils of pistachio orchards. *Folia microbiologica* 57: 27-36

44. Z Jahanshiri, M Shams-Ghahfarokhi, A Allameh, M Razzaghi-Abyaneh.(2012). Effect of curcumin on *Aspergillus parasiticus* growth and expression of major genes involved in the early and late stages of aflatoxin biosynthesis . *Iranian journal of public health* 41: 72

45. S Amani, M Shams-Ghahfarokhi, M Banasaz, M Razzaghi-Abyaneh.(2012). Mycotoxin-producing ability and chemotype diversity of *Aspergillus* Section Flavi from soils of peanut-growing regions in Iran. *Indian journal of microbiology* 52: 551-556

46. Shams-Ghahfarokhi, Mehdi Razzaghi-Abyaneh, Sanaz Kalantari.(2013). Terrestrial bacteria from agricultural soils: versatile weapons against aflatoxigenic fungi. *INTECH Open Access Publisher*
47. Asghar Sepahvand, Masoomesh Shams-Ghahfarokhi, Abdolamir Allameh, Mehdi Razzaghi-Abyaneh.(2013). Diversity and distribution patterns of airborne microfungi in indoor and outdoor hospital environments in Khorramabad, Southwest Iran . *Jundishapur Journal of Microbiology* 6: 186-192
48. M Erami, M Shams-Ghahfarokhi, Z Jahanshiri, A Sharif, M Razzaghi-Abyaneh.(2013). Rhinocerebral mucormycosis due to *Rhizopus oryzae* in a diabetic patient: A case report. *Journal de Mycologie Médicale/Journal of Medical Mycology* 23: 123-129
49. Fardis Teifoori, Masoomesh Shams-Ghahfarokhi, Ali Eslamifar ,Maryamossadat Moinazad-Tehrani, Parisa Mashayekhi, Mehdi Razzaghi-Abyaneh.(2013). Study on the Role of *Alternaria alternata* in the Etiology of Allergic Asthma in Patients Admitted to Loghman Hospital by using the Skin Prick Test and Solid-phase Immunoassay. *Modares Journal of Medical Sciences :Pathobiology* 16: 1-12
50. Mojdeh Jamali, Morteza Karimipour, Masoomesh Shams-Ghahfarokhi, Akram Amani, Mehdi Razzaghi-Abyaneh.(2013). Expression of aflatoxin genes aflO (omtB) and aflQ (ordA) differentiates levels of aflatoxin production by *Aspergillus flavus* strains from soils of pistachio orchards. *Research in microbiology* 164: 293-299
51. Mehdi Razzaghi-Abyaneh, Reza Saberi, Anosheh Sharifan ,Mohammad-Bagher Rezaee, Roghayeh Seifili, Seyed-Ibrahim Hosseini, Masoomesh Shams-Ghahfarokhi, Mehdi Nikkha, Ismail Saberi, Akram Amani.(2013). Effects of *Heracleum persicum* ethyl acetate extract on the growth, hyphal ultrastructure and aflatoxin biosynthesis in *Aspergillus parasiticus*. *Mycotoxin research* 29: 261-269
52. Mehdi Razzaghi-Abyaneh, Mahendra Rai.(2013). Antifungal metabolites from plants. *Springer*
53. Mehdi Razzaghi-Abyaneh, Masoomesh Shams-Ghahfarokhi ,Mahendra Rai.(2013). Antifungal Plants of Iran: An Insight into Ecology, Chemistry, and Molecular Biology . *Antifungal Metabolites from Plants* :27-57
54. Khodadad Pirali-Kheirabadi, Jaime A Teixeira-da-Silva ,Mehdi Razzaghi-Abyaneh, Mehdi Nazemnia.(2013). A field experiment to assess the rate of infestation

- in honey bee populations of two *Metarhizium anisopliae* isolates on *Varroa destructor* (Acari: Mesostigmata). *Journal of arthropod-borne diseases* 7: 15
55. Abdolnasser Mohammadi-Gholami, Masoomeh Shams-Ghahfarokhi, Reza Kachuei, Mehdi Razzaghi-Abyaneh. (2013). Isolation and Identification of *Fusarium* Species from Maize and Wheat and Assessment of Their Ability to Produce Fumonisin B1. *Modares Journal of Medical Sciences :Pathobiology* 16: 53-64
56. Zahra Jahanshiri, Masoomeh Shams-Ghahfarokhi, Abdolamir Allameh, Mehdi Razzaghi-Abyaneh. (2013). CURCUMIN REGULATES AFLATOXIN BIOSYNTHETIC GENE CLUSTER IN *ASPERGILLUS PARASITICUS* NRRL 2999. *Jundishapur Journal of Microbiology*
57. Sanaz Aghaei Gharehbolagh, Narges Aslani, Mehdi Razzaghi-Abyaneh, Masoomeh Shams-Ghahfarokhi. (2013). DISTRIBUTION OF OUTDOOR AIRBORNE FUNGI IN VARIOUS REGIONS OF TEHRAN. *Jundishapur Journal of Microbiology*
58. Mohammadhassan Gholami-Shabani, Azim Akbarzadeh, Dariush Norouziyan, Abdolhossein Amini, Zeynab Gholami-Shabani, Afshin Imani, Mohsen Chiani, Gholamhossein Riazi, Masoomeh Shams-Ghahfarokhi, Mehdi Razzaghi-Abyaneh. (2014). Antimicrobial Activity and Physical Characterization of Silver Nanoparticles Green Synthesized Using Nitrate Reductase from *Fusarium oxysporum*. *Applied biochemistry and biotechnology* 172: 4084-4098
59. Mehdi Razzaghi-Abyaneh, G Sadeghi, E Zeinali, M Alirezaee, M Shams-Ghahfarokhi, A Amani, R Mirahmadi, R Tolouei. (2014). Species distribution and antifungal susceptibility of *Candida* spp. isolated from superficial candidiasis in outpatients in Iran. *Journal de Mycologie Médicale/Journal of Medical Mycology* 24: e43-e50
60. Masoomeh Shams-Ghahfarokhi, Sanaz Aghaei-Gharehbolagh, Narges Aslani, Mehdi Razzaghi-Abyaneh. (2014). Investigation on distribution of airborne fungi in outdoor environment in Tehran, Iran. *Journal of Environmental Health Science and Engineering* 12: 54
61. Mehdi Razzaghi-Abyaneh, Perng-Kuang Chang, Masoomeh Shams-Ghahfarokhi, Mahendra Rai. (2014). Global health issues of aflatoxins in food and agriculture: challenges and opportunities. *Frontiers in microbiology* 5
62. Alireza Ranjbariyan, Masoomeh Shams-Ghahfarokhi, M Razzaghi-Abyaneh. (2014). Antifungal activity of a soil isolate of *Pseudomonas chlororaphis* against medically important dermatophytes and identification of a phenazine-like

- compound as its bioactive metabolite. *Journal de Mycologie Médicale/Journal of Medical Mycology* 24: e57-e64
63. Zeinali, Golnar Sadeghi, Fahimeh Yazdina, Masoomeh Shams-Ghahfarokhi, Mehdi Razzaghi-Abyaneh.(2014). Clinical and epidemiological features of the genus *Malassezia* in Iran. *Iranian journal of microbiology* 6: 354
64. Samira Kariminejad, Mahsa Abdnikfarjam, Seyed Reza Hosseini Doust, Mojdeh Hakemi-Vala, Jinous Asgarpanah, Mehdi Razzaghi-Abyaneh.(2014). Antibacterial and antifungal activities of the endemic species *Nepeta depauperata* Benth. *Ethno-Pharmaceutical Products* 1: 9-13
65. Fardis Teifoori, Masoomeh Shams-Ghahfarokhi, Idoia Postigo, Mehdi Razzaghi-Abyaneh, Ali Eslamifar, Antonio Gutiérrez, Ester Suñén, Jorge Martínez.(2014). Identification of the main allergen sensitizers in an Iran asthmatic population by molecular diagnosis. *Allergy, Asthma & Clinical Immunology* 10: 41
66. Samira Nasiri, Masoomeh Shams-Ghahfarokhi, Mehdi Razzaghi-Abyaneh.(2014). Inhibitory effect of *Carum carvi* essential oils on growth of *Candida albicans*. *Scientific Journal of Microbiology* 3: 74-77
67. Masoomeh Shams-Ghahfarokhi, Sanaz Aghaei-Gharehbolagh, Narges Aslani, Mehdi Razzaghi-Abyaneh.(2014). Investigation on distribution of airborne fungi in
68. Abdelnasser Mohammadi, Masoomeh Shams-Ghahfarokhi, Farhad Nazarian-Firouzabadi, Reza Kachuei, Mohammadhassan Gholami-Shabani, Mehdi Razzaghi-Abyaneh.(2015). *Giberella fujikuroi* species complex isolated from maize and wheat in Iran: distribution, molecular identification and fumonisin B1 in vitro biosynthesis. *Journal of the Science of Food and Agriculture*
69. Homa Afshar, Masoomeh Shams-hahfarokhi, Mehdi Razzaghi-Abyaneh.(2015). Distribution and diversity of *Alt a 1* gene in *Alternaria* species isolated from outdoor air of Tehran. *Iranian Journal of Medical Microbiology* 9: 39-46
70. Mohammadhassan Gholami-Shabani, Masoomeh Shams-Ghahfarokhi, Zeynab Gholami-Shabani, Azim Akbarzadeh, Gholamhossein Riazi, Soheila Ajdari, Akram Amani, Mehdi Razzaghi-Abyaneh.(2015). Enzymatic synthesis of gold nanoparticles using sulfite reductase purified from *Escherichia coli*: A green eco-friendly approach. *Process Biochemistry*
71. Zahra Jahanshiri, Masoomeh Shams-Ghahfarokhi, Abdolamir Allameh, Mehdi Razzaghi-Abyaneh.(2015). Inhibitory effect of eugenol on aflatoxin B1 production in

Aspergillus parasiticus by downregulating the expression of major genes in the toxin biosynthetic pathway. *World Journal of Microbiology and Biotechnology* :1-8

72. Papers in Persian language (20 peer-reviewed full papers).

INTERNATIONAL MEETINGS/WORKSHOPS ATTENDED:

1. World Veterinary Congress 1999, 23–26 September 1999, Lyon, FRANCE.
2. Chinese Congress of Clinical Chemistry & Laboratory Medicine 2000 11–15 June 2000, Hong Kong, CHINA.
3. 11th European Congress of Clinical Microbiology and Infectious Diseases, 1–4 April 2001, Istanbul, TURKEY.
4. 11th International Congress of Immunology, 22–27 July 2001, Stockholm, SWEDEN.
5. Eurotox 2001, 13–16 September 2001, Istanbul, TURKEY.
6. Asian International Mycological Congress 2001, 17–20 September 2001, Karaj, IRAN.
7. 9th APCCB & 28th Annual Conference of ACBI, 9–14 March 2002, New Delhi, INDIA.
8. The 7th International Mycological Congress, 11–17 August 2002, Oslo, NORWAY.
9. The 18th International Congress of Clinical Chemistry and Laboratory Medicine (ICCC-10), 20–25 October 2002, Kyoto, JAPAN.
10. XIV Congress of European Mycologists, 22–27 September 2003, Yalta, Crimea, UKRAINE.
11. The 10th International Congress of Culture Collections, 10–15 October 2004, Tsukuba, JAPAN.
12. XXIII World Congress of Pathology and Laboratory Medicine, 26–30 May 2005, Istanbul, TURKEY.
13. XII International Congress of Mycology, 5–9 August 2008, Istanbul, Turkey.
14. The 17th Congress of The International Society for Human and Animal Mycology 2009 (ISHAM 2009), 25–29 May 2009, Tokyo, JAPAN.
15. The First International Symposium on Mycotoxins in Nuts and Dried Fruits, 10–12 September, Damghan, IRAN.

16. XVI Congress of European Mycologists, 19-23 September 2011, Halkidiki, GREECE.

THESES:

Supervisor and advisor of different **M.Sc., DVM** and **Ph.D.** theses since 2001.

TEACHING:

Teaching Mycology and Mycotoxicology courses to **M.Sc., DVM** and **Ph.D** students in Pasteur Institute of Iran and some other universities and research centers.

EDITORIAL BOARD MEMBERSHIP:

- 1- Veterinary Journal of Azad University Garmsar Branch (since 2005)
- 2- The Open Mycology Journal (since 2008)
- 3- BioTechnology: An Indian Journal (since 2010)
- 4- Journal of Medicinal Plants Research and By-products (since 2011)
- 5- Frontiers in Food Microbiology (since 2014)

REVIEWER (PEER-REVIEWED JOURNALS):

- 1- World Mycotoxin Journal
- 2- The Open Mycology Journal
- 3- Mycopathologia
- 4- European Journal of Plant Pathology
- 5- Journal of Medicinal Plants Research
- 6- African Journal of Microbiology Research
- 7- Mycotoxin Research
- 8- Industrial Crops and Products
- 9- Iranian Journal of microbiology
- 10- Iranian Biomedical Journal
- 11- The Philippine Agricultural Scientist
- 12- Industrial Crops and Products
- 13- Others

Valued reviewer of "Mycopathologia"

