

Curriculum Vitae

First name: Masoomeh **Surname:** Shams-Ghahfarokhi

University Qualifications :

1. **B.Sc. in Microbiology** : Isfahan University, Faculty of Sciences, Oct. 1985 – Jan. 1989.
2. **M.Sc. in Microbiology**: Tarbiat Modares University, Faculty of Medical Sciences. 1990-1992. “Title of thesis : *Evaluation of A. fumigatus antigens in induction of humoral immunity in experimental models*”.
3. **Ph.D. in Molecular Biology** : Tarbiat Modares University ,Faculty of Medical Sciences,1994 –1999. “Title of thesis : *Comparison of antigenic structure of Microsporum canis and M. equinum and their role in humoral and cellular responses in human and animal models*”.
4. **JSPS Post-Doc fellowship (30/06/2005 - 30/06/2007)**. Department of Metabolic Regulation Laboratory, National Food Research Institute, Tsukuba, Japan. Research title “*Purification and identification of antifungal and anti-aflatoxin compounds from soil organisms.*”

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Training course:

1. Molecular cloning workshop, 11-14 March 2004 ,Tarbiat Modares University, Tehran, Iran.

2. Proteomics workshop, 13-18 September 2004, Pasteur Institute of Iran, Tehran, Iran.
3. ICCC10 training course for “Sample preparation for scanning Electron Microscope (SEM) and Field Emission SEM observation”, 16-18 October 2004, National Institute for Environmental Studies (NIES), Tsukuba, Japan.

Awards:

1. Young Scientists Award from Chinese Congress of Clinical Chemistry & Laboratory Medicine 2000, 11 – 15 June 2000, Hong Kong, China.
2. Young Scientists Award from The 7th International Mycological Congress, 11 – 17 August 2002, Oslo, Norway.
3. Young Scientists Award from 10th International Congress of Culture Collections (ICCC-10), 10-15 October 2004, Tsukuba, Japan.

Molecular microbiology skills:

- Sequencing ● Expression of genes using different methods of Q-PCR (real-time PCR) ● PCR, RT-PCR and real-time PCR ● Enzyme assays ● Southern Blotting, Northern ● Blotting and Western Blotting ● Cloning ● Bioinformatics research using bioinformatics tools ● DNA and RNA isolation and making cDNA library
- Gel Electrophoresis ● RACE PCR to find the transcriptional start points ● Column chromatography ● HPLC ● TLC ● LC-MS ● RNA isolation and making cDNA by manual method and kit ● Gel electrophoresis ● Fermentation ● Gel purification

Bioinformatics skills:

- Gene Finder programme for identification and evaluation of sequences •
- Reverse and Compliment programme for comparing reverse and forward strand
- VecScreen programme for checking of contaminated sequences with Vector •
- Expasy software for translation DNA-to-protein • Oligos (for primer design) •
- BLAST programmes • NCBI Blast • Relationship Tree • Gene Scan • Multiple Alignment • Genotyper • DNA Sequencing Analysis • Sequence Navigator

Microbiology laboratory skills:

- ELISA • Protein purification • Preparation of tissue sections and staining •
- Antibiogram • Microscopic examinations • Staining of samples • Tissue and cell cultures• Growing of bacteria and fungi in different laboratory media for isolation and identification of fungi and bacteria • Shake flasks running

Books :

1. **Shams-Ghahfarokhi, M.**, Alinezhad, S. and Razzaghi Abyaneh, M . *Marine Mycology and Mycotic Diseases* , Ministry of Jahad Agriculture Publ., First Edition, (192 pages in Persian), 2005.
2. Razzaghi Abyaneh, M. and **Shams-Ghahfarokhi, M** .*Veterinary General Mycology*, Ministry of Jahad Agriculture Publ., (420 pages in Persian), 2005.
3. Razzaghi Abyaneh, M. and **Shams-Ghahfarokhi, M** .*Veterinary Mycotic Diseases*, Ministry of Jahad Agriculture Publ., (250 pages in Persian), 2005.
4. Mahendra Rai, Ajit Varma. *Mycotoxins in Food, Feed and Bioweapons*. Springer-Verlag Berlin Heidelberg 2010. Chapter 19: *Natural Aflatoxin Inhibitors from Medicinal Plants*. Mehdi Razzaghi-Abyaneh, **Masoomeh Shams-Ghahfarokhi**, Mohammad-Bagher Rezaee, and Shohei Sakuda. pp: 329-352.
5. Razzaghi-Abyaneh, M., Pilehvar-Soltanahmadi, Y., **Shams-Ghahfarokhi, M.**, Alinezhad, S. *Aflatoxins: Public Health and Agricultural Significance*. Ministry of Jahad Agriculture Publ., First Edition, (216 pages in Persian), 2011.
6. 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, pp. 285-304, October 2011.
7. 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, October 2011.
 8. Razzaghi-Abyaneh, M., **Shams-Ghahfarokhi, M.** Rai, M. Medical Mycology: Current Trends and Future Prospects. CRC Press. 2016. Pp. 442.
 9. Asghari F., Jahanshiri Z., Imani M., Shams-Ghahfarokhi M., Razzaghi-Abyaneh M. Antifungal nanomaterials: synthesis, properties, and applications. In: Nanobiomaterials in Antimicrobial Therapy (Ed; A Grumezescu) . Elsevier Inc. 2016. Pp. 552.
 10. Gholami-Shabani MH., Shams-Ghahfarokhi M., Gholami-Shabani Z., Razzaghi-Abyaneh M. Microbial Enzymes: Current Features and Potential Applications in Nanobiotechnology In: Advances and Applications Through Fungal Nanobiotechnology (ed; Ram Prasad), Springer 2017.Pp. 340.
 11. Gholami-Shabani MH., Gholami-Shabani Z., Shams-Ghahfarokhi M., Jamzivar F., Razzaghi-Abyaneh M. Green Nanotechnology: Biomimetic Synthesis of Metal Nanoparticles Using Plants and Their Application in Agriculture and Forestry In: Nanotechnology An Agricultural Paradigm. (Eds; Prasad R., Kumar M., Kumar V.), Springer 2017.Pp. 371.
 12. Gholami-Shabani MH., Zamani S., Moosa H., Shams-Ghahfarokhi M., Jamzivar F., Razzaghi-Abyaneh M. Recent Advances in Fungal Infections of the Central Nervous System: From Etiology to Diagnosis and Management In: The Microbiology of Central Nervous System Infections, Volume 3, Clinical Microbiology Diagnosis, Treatment and Prophylaxis of Infections The Microbiology of Central Nervous System Infections (Eds; Kon K., Rai M.), Elsevier Inc. 2018. Pp 344.

Publications :

1. **Shams-Ghahfarokhi M.**, Khosravi A., Vojgani H. (1992) Purification of *Aspergillus fumigatus* cytoplasmic and cell wall antigens and detection of antibodies. *Gashtac Journal*, 2(2):172-5. (In Persian).
2. **Shams-Ghahfarokhi M.**, Khosravi A., Rassae M.J., Mahmoudi M., Razzaghi, M. (1999). SDS-Page separation of *dermatophyte* antigens and western blotting in experimental animal model and human dermatophytosis. *Kowsar Medical Journal*, 4(4):229-5. (In Persian).
3. **Shams-Ghahfarokhi M.**, Rassae 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 (4): 121–6.
4. Allameh, A., Razzaghi-Abyaneh, M., **Shams, M.**, Rezaee, M.B., and Jaimand, K. (2001) 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(2): 79 – 84.
5. **Shams-Ghahfarokhi, 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(3): 113-8.
6. **Shams-Ghahfarokhi M.**, Refaei J., Allameh A., and Razzaghi-Abyaneh M. (2004) Effects of aqueous and essential oil of onion (*Allium cepa*) on growth and lipase activity in *Malassezia furfur*. *Daneshvar Medicine* 11(52):31-8. (In Persian).

7. **Shams-Ghahfarokhi, M.**, Fazli, A., Lotfi, A., and Razzaghi-Abyaneh, M. (2004) Cellobiose dehydrogenase production by the genus *Cladosporium*. *Iranian Biomedical Journal* 8 (2): 107-11.
8. **Shams-Ghahfarokhi, 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 (3): 135-42.
9. **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 (1): 36-9.
10. **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: 645-5.
11. Razzaghi-Abyaneh M., Allameh A., Al-Tarihi T., **Shams-Ghahfarokhi M.**, Ghorbanian M. (2005) Morphological alterations in toxigenic *Aspergillus parasiticus* exposed to neem (*Azadirachta indica*) leaf and seed aqueous extracts. *Mycopathologia* 159: 565-70.
12. Ghorbanian M, Razzaghi-Abyaneh, M., Allameh, A., **Shams-Ghahfarokhi, M.,Babaee GR.**, Rezaee, M.B. (2005) Effect on incubation time on *Aspergillus parasiticus* growth and its aflatoxin productivity in presence of neem (*Azadirachta indica* A. juss) *Hakim Medical Journal* 8(3) :54-60. (In Persian).

13. **Masoomeh Shams-Ghahfarokhi** ., Mohammad-Reza Shokoohamiri .,Nasrin Amirjab ., Behnaz Moghadasi ., Ali Ghajari ., Farideh Zeini .,Golnar Sadeghi ., Mehdi Razzaghi-Abyaneh .(2006) In vitro antifungal activities of *Allium cepa*, *Allium sativum* and ketoconazole against some pathogenic yeasts and dermatophytes. *Fitoterapia* 77:321-3.
14. **Shams Ghahfarokhi M.**, Shokoohamiri MR., Sadeghi G., Razzaghi Abyaneh M., Mirzahoseini H (2006) Comparative study of the effect of antifungal drugs terbinafine and ketoconazole against *Malassezia furfur* isolates. *Daneshvar Medicine* 14(66):45-52. (In Persian).
15. **Shams-Ghahfarokhi M.** Amirjab N., Ghajari A., Razzaghi-Abyaneh M.(2006) Comparative study on In vitro antifungal activity of garlic (*Allium sativum*), onion (*Allium cepa*) and terbinafine against current dermatophytes species. *Daneshvar Medicine* 13(62):35-42. (In Persian).
16. Katiraei F., Yadegari MH., **Shams-Ghahfarokhi M.**, Zarinkafsh H. (2006) Phenotypic diagnostic methods to distinguish of *Candida dubliniensis* from *C. albicans*. *Kowsar Medical Journal*, 10(4):247-54. (In Persian).
17. Mehdi Razzaghi-Abyaneh., **Masoomeh Shams-Ghahfarokhi.**, Abdolamir Allameh., Amirmohammad Kazeroon-Shiri., Shahrokh Ranjbar-Bahadori., Hasan Mirzahoseini., Mohammad-Bagher Rezaee.(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(3): 183 –92.
18. Mehdi Razzaghi-Abyaneh., **Masoomeh Shams-Ghahfarokhi.**, Ali Eslamifar., Oskar J. Schmidt., Reza Gharebaghi., Mehdi Karimian., Alireza Naseri., Mohammad Sheikhi. (2006) Inhibitory Effects of Akacid®plus on Growth and Aflatoxin Production by *Aspergillus parasiticus* . *Mycopathologia* 161(4): 245 –9.

19. Razzaghi-Abyaneh M, **Shams-Ghahfarokhi M**, Kawachi M, Eslamifar A, Schmidt OJ, Schmidt A, Allameh A, Yoshinari T. (2006) Ultrastructural evidences of growth inhibitory effects of a novel biocide, Akacid(plus), on an aflatoxigenic *Aspergillus parasiticus*. *Toxicon* 15;48(8):1075-82.
20. Amirjab N., **Shams-Ghahfarokhi M**. Ghajari A., Razzaghi-Abyaneh M.(2006) In vitro antifungal activities of griseofulvin and terbinafine against common dermatophytes. *Hakim Medical Journal* 9(1) :28-33.
21. Khodadad Pirali-Kheirabadi., Hamidreza Haddadzadeh., Mehdi Razzaghi Abyaneh., Saeed Bokaie., Rasoul Zare., Mehran Ghazavi., **Masoomeh Shams-Ghahfarokhi**. (2007). Biological control of *Rhipicephalus (Boophilus) annulatus* by different strains of *Metarrhizium anisopliae*, *Beauveria bassiana* and *Lecanicillium psalliotae* fungi. *Parasitology Research* 100(6):1297-302.
22. Razzaghi-Abyaneh, M., Tomoya, Y., **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(9):2329-32.
23. Mohammadi R., Yadegari MH., Moattar F., **Shams M.** (2006) Antifungal activity of *Boswellia serrata*'s essential oil against fluconazole resistant and susceptible isolates of *Candida albicans*. *Medical Journal of Isfahan*. 24(82):30-5.
24. 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* 51:35-9
25. Razzaghi-Abyaneh, M., **Shams-Ghahfarokhi, M.**, Yoshinari T.,Rezaee, MB., 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 : 228-3

26. **Shams-Ghahfarokhi, M.**, Ammanloo S., Forouzandemoghadam M., Mirzahoseini H. (2007). Identification and diagnosis of common *Malassezia* species by PCR-RFLP in IRAN. *Modares J Med Sci: Pathology*. 9(1):37-43.
27. Nemati-Shirzi L., **Shams-Ghahfarokhi, M.** Yadegari MH. (2008). Evaluation of Disk Diffusion and Broth Microdilution Methods for Fluconazole Susceptibility Testing in one Group of *Candida* spp. in Tehran. *Daneshvar Medicine* 15(73): 51-8.
28. **Shams-Ghahfarokhi, M.**, Razzaghparast A., Yadegari MH., Razzaghi-Abyaneh, M. (2008). Antifungal effects of fluconazole, itraconazole and ketoconazole in intact and combination forms against some pathogenic yeasts. *Ofogh danesh (Med J Gonabad University)*, 13(4):29-39.
29. Razzagh-Parast, A., **Shams-Ghahfarokhi, M.** Yadegari MH., Razzaghi-Abyaneh, M. (2008). Antifungal effects of allium cepa and some azoles in intact forms and in combinations to each other against pathogenic yeasts. *Kowsar Medical Journal* , 13(2): 103-14.
30. Zare, M., **Shams-Ghahfarokhi, M.**, Allameh, A., Ranjbar-Bahadori, S., 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(4) :229-36.
31. Mirzahoseini H., Omidiniya E., **Shams-Ghahfarokhi, M.**, Sadeghi G., Razzaghi-Abyaneh, M. Application of PCR-RFLP to rapid identification of

the main pathogenic dermatophytes from clinical specimens. *Iranian Journal of Public Health* 2009;38(1) :18-24.

32. Moghaddasi B., **Shams-Ghahfarokhi M.**, Zeini F., Razzaghi-Abyaneh M. In vitro antifungal effects of ketoconazole against clinical isolates of *Candida* from vulvovaginal candidiasis. *Daneshvar Medical Journal*, 2009; 16 (78): 75-82.
33. Razzaghi-Abyaneh, M., **Shams-Ghahfarokhi, M.**, Rezaee, M.-B., Jaimand, K., Alinezhad, S., Saberi, R., Yoshinari, T. (2009). Chemical composition and antiaflatoxigenic activity of *Carum carvi L.*, *Thymus vulgaris* and *Citrus aurantifolia* essential oils. *Food Control* 20 (2009): 1018-24.
34. Shahrokh Bagheri-Gavkosh, Mohsen Bigdeli, **Masoomeh Shams-Ghahfarokhi** and Mehdi Razzaghi-Abyaneh. (2009). Inhibitory Effects of *Ephedra major* Host on *Aspergillus parasiticus* Growth and Aflatoxin Production. *Mycopathologia*. 168: 249-55.
35. **Shams-Ghahfarokhi M** , Mosleh-Tehrani F, Ranjbar-Bahadori S, Razzaghi-Abyaneh M. (2010). An epidemiological survey on cattle ringworm in major dairy farms of Mashhad city, Eastern Iran. *Iranian Journal of Microbiology*. 1(3):31-6.
36. Marziyeh Tolouee , Soheil Alinezhad , Reza Saberi , Ali Eslamifar , Seyed Javad Zad , Kamkar Jaimand ,Jaleh Taeb , Mohammad-Bagher Rezaee , Masanobu Kawachi , **Masoomeh Shams-Ghahfarokhi** , Mehdi Razzaghi-Abyaneh. (2010). Effect of *Matricaria chamomilla L.* flower essential oil on the growth and ultrastructure of *Aspergillus niger* van Tieghem. *Int J Food Microbiol*. 139(2010): 127–33.

37. Shahrokh Ranjbar-Bahadori, Mehdi Razzaghi-Abyaneh, Mansour Bayat, Ali Eslami, Khodadad Pirali, **Masoomeh Shams-Ghahfarokhi** and Samad Lotfollahzadeh. Studies on the Effect of Temperature, Incubation Time and *in vivo* Gut Passage on Survival and Nematophagous Activity *Arthrobotrys oligospora* Var. *Oligospora* and *A. cladodes* Var. *Macroides*. *Global Veterinaria* 2010; 4 (2): 112-17.
38. Soheil Alinezhad, Azizollah Kamalzadeh, **Masoomeh Shams-Ghahfarokhi**, Mohammad-Bagher Rezaee, Kamkar Jaimand, Masanobu Kawachi, Zahra Zamani, Reza Tolouei, Mehdi Razzaghi-Abyaneh. Search for novel antifungals from 49 indigenous medicinal plants: *Foeniculum vulgare* and *Platycladus orientalis* as strong inhibitors of aflatoxin production by *Aspergillus parasiticus*. *Ann Microbiol* 2011; 61: 673-681.
39. S. Alinezhad , M. Tolouee , A. Kamalzadeh , A. A. Motalebi , M. Nazeri , M. Yasemi, **M. Shams-Ghahfarokhi**, R. Tolouei , M. Razzaghi-Abyaneh. Mycobiota and aflatoxin B1 contamination of rainbow trout (*Oncorhinchus mykiss*) feed with emphasis to *Aspergillus* section Flavi *Iran J Fisheries Sci* 2011; 10 (3): 363-374.
40. Asghar Sepahvand, **Masoomeh Shams-Ghahfarokhi**, Zahra Jahanshiri, Mojde Jamali Abdolamir Allameh, Mehdi Razzaghi-Abyaneh. A survey on distribution and toxigenicity of *Aspergillus flavus* from indoor and outdoor hospital environments. *Folia Microbiol* 2011; 56 (6): 527-534. DOI 10.1007/s12223-011-0078-1.
41. G. Sadeghi, M. Abouei, M. Alirezaee, R. Tolouei, **M. Shams-Ghahfarokhi**, E. Mostafavi, M. Razzagh-Abyaneh. A 4-year survey of dermatomycoses in Tehran from 2006-2009. *J de Mycologie Medicale* 2011; 21 (4): 260-265.

42. Alireza Ranjbariyan, **Masoomeh Shams-Ghahfarokhi**, Sanaz Kalantari, Mehdi Razzaghi-Abyaneh. Molecular identification of antagonistic bacteria from Tehran soils and their inhibitory activities toward pathogenic fungi. *Iran J Microbiology* 2011; 3 (3): 140-146.
43. Jamali M, Ebrahimi M A, Karimipour M, **Shams-Ghahfarokhi M**, Dinparast-Djadid N, Kalantari S, Pilehvar-Soltanahmadi Y, Amani A, Razzaghi-Abyaneh M. An insight into the distribution, genetic diversity, and mycotoxin production of *Aspergillus* section Flavi in soils of pistachio orchards. *Folia Microbiol* 2012; 57(1): 27-36.
44. Jahanshiri Z, **M Shams-Ghahfarokhi**, A Allameh, M Razzaghi-Abyaneh. Effect of curcumin on *Aspergillus parasiticus* growth and expression of major genes involved in the early and late stages of aflatoxin biosynthesis. *Iranian J Publ Health* 2012; 41(6):72-79.
45. Saeedeh Amani, **Masoomeh Shams-Ghahfarokhi**, Maryam Banasaz, Mehdi Razzaghi-Abyaneh. Mycotoxin-producing ability and chemotype diversity of *Aspergillus* section Flavi from soils of peanut-growing regions in Iran. *Indian J Microbiology* 2012; 52(4): 551-556.
46. Jamalian A., **Shams-Ghahfarokhi M.**, Jaimand K., Pashootan N., Amani A., Razzaghi-Abyaneh M. Chemical composition and antifungal activity of *Matricaria recutita* flower essential oil against medically important dermatophytes and soil-borne pathogens. *Journal de Mycologie Medicale* 2012; 22: 308-315.
47. Asghar Sepahvand, **Masoomeh Shams-Ghahfarokhi**, Abdolamir Allameh, Mehdi Razzaghi-Abyaneh. Diversity and distribution patterns of airborne microfungi in indoor and outdoor hospital environments in Khorramabad, Southwest Iran. *Jundishapur Journal of Microbiology* 2013; 6(2): 186-192.

48. Jamali M, Karimipour M, **Shams-Ghahfarokhi M**, Amani A, Razzaghi-Abyaneh M. Expression of aflatoxin genes *aflO* (*omtB*) and *aflQ* (*ordA*) differentiates levels of aflatoxin production by *Aspergillus flavus* strains from soils of pistachio orchards. *Res Microbiol* 2013; 164(4): 293-9.
49. Erami M., **Shams-Ghahfarokhi M.**, Jahanshiri Z., Sharif A., Razzaghi-Abyaneh M. Rhinocerebral mucormycosis due to *Rhizopus oryzae* in a diabetic patient: A case report. *Journal de Mycologie Medicale* 2013; 23: 123-129.
50. Razzaghi-Abyaneh M, Saberi R, Sharifan A, Rezaee MB, Seifili R, Hosseini SI, **Shams-Ghahfarokhi M**, Nikkhah M, Saberi I, Amani A. Effects of *Heracleum persicum* ethyl acetate extract on the growth, hyphal ultrastructure and aflatoxin biosynthesis in *Aspergillus parasiticus*. *Mycotoxin Res*. 2013; 29: 261-269.
51. Fardis Teifoori, **Masoomeh Shams-Ghahfarokhi**, Ali Eslamifar; Maryamossadat Moinazad-Tehrani, Parisa Mashayekhi, Mehdi Razzaghi-Abyaneh. 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 J Med Sci: Pathobiology* 2013, 16 (2): 1-12. (In Persian).
52. Abdolnasser Mohammadi-Gholami, **Masoomeh Shams-Ghahfarokhi**, Reza Kachuei, Mehdi Razzaghi-Abyaneh. Isolation and identification of *Fusarium* species from maize and wheat and assessment of their ability to produce fumonisin B1. *Modares J Med Sci: Pathobiology* 2013, 16 (3): 53-64. (In Persian).
53. **Masoomeh Shams-Ghahfarokhi**, Sanaz Aghaei-Gharehbolagh, Narges Aslani and Mehdi Razzaghi-Abyaneh. Investigation on distribution of airborne fungi in outdoor environment in Tehran, Iran. *J Environ Health Sci Eng*. 2014; 12: 54.
54. Gholami-Shabani M, Akbarzadeh A, Norouzian D, Amini A, Gholami-Shabani Z, Imani A, Chiani M, Riazi G, **Shams-Ghahfarokhi M**, Razzaghi-

- Abyaneh M. Antimicrobial activity and physical characterization of silver nanoparticles green synthesized using nitrate reductase from *Fusarium oxysporum*. *Appl Biochem Biotechnol*. 2014; 172 (8): 4084-98.
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56. M. Razzaghi-Abyaneh, G. Sadeghi, E. Zeinali, M. Alirezaee, **M. Shams-Ghahfarokhi**, A. Amani, R. Mirahmadi, R. Tolouei. Species distribution and antifungal susceptibility of *Candida* spp. isolated from superficial candidiasis in outpatients in Iran. *Journal de Mycologie Médicale* 2014; 24(2): 43-50.
57. F Teifoori, **M Shams-Ghahfarokhi**, I Postigo, M Razzaghi-Abyaneh, A Eslamifar, A Gutiérrez, E Suñén, J Martínez. Identification of the main allergen sensitizers in an Iran asthmatic population by molecular diagnosis. *Allergy, Asthma and Clinical Immunology* 2014; 10:41.
58. Nasiri M, **Shams-Ghahfarokhi M**, Razzaghi- Abyaneh M. Inhibitory effect of *Carum carvi* essential oil on the growth of *Candida albicans*. *Scientific Journal of Microbiology* 2014; 3(7): 74-77.
59. M Razzaghi-Abyaneh, PK Chang, **M Shams-Ghahfarokhi**, M Rai. Global health issues of aflatoxins in food and agriculture: challenges and opportunities. *Frontiers in Microbiology* 2014; doi: 10.3389/fmicb.2014.00420
60. Afshar H., Shams-Ghahfarokhi, M., Razzaghi-Abyaneh, M. Distribution and diversity of Alt a 1 gene in Alternaria species isolated from outdoor air of Tehran. *Iran J Med Microbiol* 2015, 9(2): 39-46
61. Fekrazad R, Ghasemi Barghi V, Poorsattar Bejeh Mir A, **Shams-Ghahfarokhi M.** In vitro photodynamic inactivation of *Candida albicans* by phenothiazine dye (new methylene blue) and Indocyanine green (EmunDo®). *Photodiagnosis Photodyn Ther.* 2015;12(1):52-7. doi: 10.1016/j.pdpdt.2014.12.006.

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