

Curriculum Vitae

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Keyvan Pakshir (Ph.D)

Personal data:

Nationality: Iranian

Date of birth: 12-Jan-1965

Place of birth: Tehran

Marital status: Married, one child

Address and contact number:

Department of Parasitology and Mycology Shiraz Medical School, Shiraz University of Medical Sciences, Shiraz. Iran.

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Position: Associate professor of Medical Mycology

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Educational History:

- 1999 Ph.D, Medical Mycology, Institute of Health and Research, Tehran University of Medical Sciences, Tehran, Iran
- 1993 MSPH, Medical Mycology, Institute of Health and Research, Tehran University of Medical Sciences, Tehran, Iran
- 1990 BA, Public Health, Esfahan University of Medical Sciences, Esfahan, Iran
- 1986 Higher Diploma, Public Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran

Thesis

-M.S.P.H, Study on Candiduria and fungal urinary tract infections in foley catheter users, Dr Mahine Moghadami (adviser), 1993

-Ph.D, Study on somatic antigens of *Epidermophyton floccosum* varieties, Dr Farideh Zainie (adviser), 1999

Affiliation, position and membership in committee and professional councils

- 2004 - Current Member of Evaluation & Assessment board for Medical Mycology, Tehran, Iran
- 2002 to 2003 Member of Committee for Evaluation of Research Proposals, Shiraz Medical School, Iran
- 2006 - Current Member of Committee for Occupational Safety & Health Of Shiraz Medical School
- (2010 - 2015) - current Head chief and member of basic sciences in infectious diseases research Center
- 2011 – Current Vice-chancellor for financial affairs of Iranian Society of Medical Mycology
- 2012 – 2016 Head of Parasitology & Mycology department of Shiraz Medical School
- 2015 Chairman of The 2ndInternational and 4th Iranian Congress in Medical Mycology: From Bench to Bed, 18-20 November 2015, Shiraz, Iran.

Membership in professional societies

- 2003- Current Member of International Society for Human and Animal Mycology (**ISHAM**)
- 2003- 2010 Member of Iranian Society of Parasitology (**NICOPA**)
- 2007- 2008 Member of Fungal Sinusitis Network (**FSN**)
- 2011 – Current Member of the board of Iranian society of Medical Mycology (**ISMM**)

Editorial activity:

- 2006 – 2012 Editorial board member & reviewer of Asian Network for Scientific Information & Academic Journals in following Journals:
 - 1-Journal of Biological Sciences
 - 2-Pakistan Journal of Biological Sciences
 - 3-Research Journal of Microbiology
- 2013 – Current Editorial board member & reviewer of Current Medical Mycology Journal

Teaching experiences:

Teaching of Medical Mycology courses to:

- Under graduate: MD, Pharm D, Dent D and paramedical students
- Post graduate: MS and Ph.D students

Laboratory skills:

- DNA extraction
- PCR-RFLP
- Antifungal susceptibility tests(Macro & Micro dilution, Agar dilution, Difusion assays.
- Fungal exo-enzyme tests (phospholipase, esterase, hemolysin, proteinas...)
- Identification of fungal diseases and clinically important fungi
- Electrophoresis (ID, CIE,...)
- SDS-PAGE
- Immunoblotting
- Current affairs Medical Mycology lab

Scientific activity

- 2007 Scientific referee of the 8th Congress of Iranian Medical Science students researches, May 2007, Shiraz, Iran
- 2007 Member of scientific Committee for the 1st Iranian Congress of Clinical Microbiology, May 2007, Shiraz, Iran
- 2007 Scientific referee and Member of scientific Committee for the 9th Iranian Congress of Biochemistry & Molecular biology, 29 Oct 1 Nov 2007, Shiraz, Iran
- 2008 Scientific referee and Member of scientific Committee for the 2nd Iranian Congress of Clinical Microbiology, Oct 2008, Shiraz, Iran
- 2009 Scientific referee and Member of scientific Committee for the 3rd Iranian Congress of Clinical Microbiology, 6-8 Oct 2009, Shiraz, Iran
- 2011 Scientific referee and Member of scientific Committee for the 1th Iranian Congress of Medical Mycology, 1-4 May 2011, Sari, Iran
- 2011 Scientific referee and Member of scientific Committee for the 5th Iranian Congress of Clinical Microbiology, 10-12 Oct 2011, Shiraz, Iran
- 2012 Scientific referee and Member of scientific Committee for the 2th Iranian Congress of Medical Mycology, Feb 2012, Ahvaz, Iran
- 2013 Scientific referee and Member of scientific Committee for the 7th Iranian Congress of Clinical Microbiology, Oct 2013, Shiraz, Iran
- 2015 Member of scientific Committee for the 9th Iranian Congress of Clinical Microbiology, Oct 2015, Shiraz, Iran

-Adviser or supervisor of Thesis:

More than 80 MS, MD, Pharm D, Dent D thesis (related to medical mycology).

Article publications:

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- 1- **Pakshir K**, Zaini F, Akhoni E. The Protein Profiles of Epidermophyton Floccosum Var Pigmented by SDS-PAGE. The Journal of Faculty of Medicine. 57Th year, 1999; 4: 6-10. In persian
 - 2 - **Pakshir K** , Moghadami M , Emami M , Kordbatcheh P .Prevalence And Identification Of Etiological Agents Of Funguria In Foley Catheterized Patients. Journal of Medical Research, Spring 2004: 2 (3); 33-41. In persian
 - 3 - Jarrahpour A A , Motamedifar M , **Pakshir K** , Hadi N , Zarei M. Synthesis Of Novel Azo Schiff Bases And Their Antibacterial And Antifungal Activities. Molecules 2004; 9: 815-8.
 - 4- Falahati M, **Pakshir K**, Alinejad T K. Separation and identification of different species of Malassezia in patients referred to Medical centers in Shiraz. J IR Univer Med Sci, spring 2005; 12(45):133-140. In persian
 - 5- **Pakshir k**, Zaini F, Emami M, Akhonnei E . Identification of antigenic proteins of Epidermophyton floccosum, using immunoblotting technique. Journal of Medical Research, winter 2004& spring 2005; 2(2&3):108-117. In persian
 - 6- **Pakshir K**, Salmanpoor R, Motazedian M H, Vasei M. Subcutaneous Mycoses in Fars province (1381-84). Armaghane-danesh Journal of Medical Science. Winter 2005-2006; 10(4):35-43. In persian
 - 7- Eghtedari M, **Pakshir K**. Asymptomatic fungal cyst of conjunctiva caused by Bipolaris spicifera. Iranian Journal of Medical Science 2006: 31(1):56-58.
 - 8- **Pakshir K**, Hashemie J. Dermatophytosis in Karaj, Iran. Indian J Dermatol, 2006: 51(4): 262-4.
 - 9- **Pakshir k**, Yazdani M, Kimiaghalam R. Etiology of Vaginal Candidiasis in Shiraz, southern Iran. Research journal of Microbiology, 2007; 2(9):696-700.
 - 10-**Pakshir k** , Shekarkhar G, Mostagnei S , Sabayan B, Vagefikia A. Monitoring of airborne fungi in two general hospitals in Shiraz. Iranian Journal of Medical Sciences; 2007:32(4)240-244.
 - 11- **Pakshir k**, Sabayan B, Javan H, Karamifar K. Mycoflora of human external auditory canal in Shiraz, Southern Iran., IRCMJ 2008; 10(1):27-29.
 - 12- Karamian M, Motazedian MH, Fakhar M, **Pakshir K**, Jowkar F, Rezanezhad H . Old-World unusual Cutaneous Leishmaniasis forms, diagnosis andspecies typing by

PCR methods in direct clinical samples. Journal of European Academy of Dermatology and Venereology. 2008; 22: 958-962.

13- Khabnadideh S, Rezaei Z, Khalifi-Nezhad A, **Pakshir K**, Baratzadeh Z. Design and synthesis of imidazole and benzimidazole derivatives as antifungal agents. Anti-Infective Agents in Medicinal Chemistry. 2008; 7(3):215-218.

14- Hashemi S J, Nasrollahi A, Guerami M, Daei R, **Pakshir K**, Zibafar A. Mycetoma in Iran: study of 62 cases. Asian journal of Epidemiology. 2008; 1(2):77-81.

15- Rezaei Z, Khabnadideh S , **Pakshir K** , Hossaini Z , Amiri F Assadpour E. Design, synthesis and antifungal activity of triazole and benzotriazole derivatives. European journal of medicinal chemistry. Eur J Med Chem .2009: 44, 3064–3067.

16- Bonyadpour B, Akbarzadeh M, **Pakshir K**, Mohagheghzadeh A. In vitro susceptibility of fluconazole, clotrimazole and Toucium polium smoke product on *Candida* isolates of vaginal candidiasis. Armaghane-danesh Journal of Medical Science. Summer 1388; 2: 87-96. In Persian

17- Soghra Khabnadideha, Zahra Rezaeia, Ali Khalafi-Nezhadb, **Keyvan Pakshir**, Mohammad Javad Heirana, Hesamedin Shobeiria Design and Synthesis of 2-Methyl and 2-Methyl-4-Nitro Imidazole Derivatives as Antifungal Agents. Iranian Journal of Pharmaceutical Sciences. Winter 2009;5(1):31-36.

18- **Pakshir K**, Bahaedinie L, Rezaei Z, Sodaifi M, Zomorodian K. *In vitro* activity of six antifungal drugs against clinically important dermatophytes. Jundishapur Journal of Microbiology 2009; 2(4): 158-163.

19- **Pakshir K**, Akbarzadeh M ,Bonyadpour B, Mohagheghzadeh A. In vitro activity and comparison of clotrimazole , fluconazole and nystatin against *Candida* vaginitis isolates in Shiraz 2008. Journal of Rafsanjan university of medical sciences 2010; 9(3):215-226. In Persian

20- Akbarzadeh M ,Bonyadpour B, **Pakshir K**, Mohagheghzadeh A. Causes and clinical symptoms of vaginal candidiasis in patient referring to selective clinics of Shiraz university of medical sciences .Arak Medical University Journal 2010;13(2):12-20. In Persian

21- Jarrahpour A, Eskandari M, Zomorodian K, Barati E, Ashori R, Salehi M V , **Pakshir K**. Synthesis of some new monocyclic-lactamas bearing a morpholine moiety at their N1 positions as antifungal agents .AIA-MC 2010; 9: 205-219.

22- Mesbah F, Ghayyoumi MA, Tozihian M, Bordbar H, Naghib-alhosseini F, **Pakshir K**, Shidmosavi M, , Shaban Sarvestani S, Movahedi MM. The effects of formaldehyde

among medical students in anatomy dissection laboratory of Shiraz school of medicine. *Journal of Iranian Anatomical Sciences* 2010; 8:197-208.

23- Zomorodian K, Haghighi NN, Rajaei N, **Pakshir K**, Tarazooie B, Vojdani M, Sedaghat F, Vosoghi M. Assessment of *Candida* species colonization and denture-related stomatitis in complete denture wearers. *Med Mycol.* 2011; 49: 208-211

24- Zomorodian K, Saharkhiz M J, Rahimi M J, Bandegi A, Shekarkhar G, Bandegani A, **Pakshir K**, Bazargani A. Chemical composition and antimicrobial activities of the essential oils from three ecotypes of *Zataria multiflora*. *Pharmacognosy Magazine* 2011; 7 (25):53-59.

25- Rezaei Z, Khabnadideh S, Zomorodian K, **Pakshir K**, Nadali S, Mohtashami N, Faghihi Mirzaei E. Design, Synthesis and Antifungal Activity of New α -Aminophosphonates. *International Journal of Medicinal Chemistry (Hindawi Publishing Corporation)* 2011 Article ID 678101, 11 pages.

26- Mousavi M S, Keshavarz T, Montaseri H, **Pakshir K**, Yazdani M, Zare N, Afrouzan H. A Comparative Study on the Therapeutic Effect of the Propolis Vaginal Cream and Clotrimazole on *Candida Vulvovaginitis* in Reproductive Aged Women. *Journal of Isfahan Medical School* 2011; 28(117):863-871. In Persian

27- Rezaei Z, Khabnadideh S, Zomorodian K, **Pakshir K**, Kashi G, Sanagoei N, Gholami S. Design, Synthesis and Antifungal Activity of Some New Imidazole and Triazole Derivatives. *Arch Pharm Chem Life Sci.*2011; 344:658-665.

28- Zomorodian K, Moein M R, Rahimi M J, **Pakshir K**, Ghasemi Y, Abedi S, Sharbatfar S. Possible application and chemical compositions of carum copticum essential oils against food borne and nosocomial pathogens. *Middle-East Journal of Scientific Research* 2011; 9 (2): 239-245.

29- - Zomorodian K, Rahimi MJ, **Pakshir K**, Motamedi M, Rahimi Ghiasi M, Rezashah H. Determination of antifungal susceptibility patterns among the clinical isolates of *Candida* species. *Journal of global infectious diseases.* 2011, 3(4) 357-360.

30- Rezaei Z, Khabnadideh S, Zomorodian K, **Pakshir K**, Nadali S, Mohtashami N, FaghihMirzaei E. Design, Synthesis and Antifungal Activity of New α -Aminophosphonates. *International Journal of Medicinal Chemistry* 2011, doi:10.1155/2011/678101, 11 pages

31- Zomorodian K, Saharkhiz MJ, Shariati S, **Pakshir K**, Rahimi MJ, Khashei R. Chemical Composition and Antimicrobial Activities of Essential Oils from *Nepeta cataria* L. against Common Causes of Food-Borne Infections. *ISRN Pharmaceutics* 2012 Article ID 591953 -6 pages.

- 32- Khabnadideh S, Rezaei Z, **Pakshir K**, Zomorodian K, Ghafari N. Synthesis and antifungal activity of benzimidazole, benzotriazole and aminothiazole derivatives. *Research in Pharmaceutical Sciences* 2012; 7(2).
- 33- Mesbah F, Choobineh A, Tozihian M, Jafari P, Naghib-alhosseini F, Shidmosavi M, **Pakshir K**, Movahedi MM, Shaban Sarvestani S. Ergonomic intervention effect in reducing musculoskeletal disorders in staff of Shiraz medical school. *Iran Occupational Health* 2012; 9(1):41-51. In persian
- 34- Zomorodian K, Parva M, Ahrari I, Tavana S, Hamyari C, **Pakshir K**, Jafari P, Sahraian A. The effect of seating preferences of the medical students on educational Achievement. *Med Educ Online* 2012, 17: 10448 - <http://dx.doi.org/10.3402/meo.v17i0.10448>
- 35- Saharkhiz M J, Motamedi M, Zomorodian K, **Pakshir K**, Miri R, Hemyari K. Chemical Composition, Antifungal and Antibiofilm Activities of the Essential Oil of *Mentha piperita* L. *International Scholarly Research Network*. 2012, Article ID 718645, 6 pages doi:10.5402/2012/718645
- 36- Zomorodian K, Saharkhiz M J, Rahimi M J, Shariatifard S, **Pakshir K**, Khashei R. Chemical Composition and Antimicrobial Activities of Essential Oil of *Nepeta Cataria* L. Against Common Causes of Oral Infections. *Journal of Dentistry* 2013; Vol. 10, No. 4: 1-9.
- 37- **Pakshir K**, Ghiasi M R, Zomorodian K, Gharavi A R. Isolation and Molecular Identification of Keratinophilic Fungi from Public Parks Soil in Shiraz, Iran. *BioMed Research International*, Volume 2013, Article ID 619576, 5 pages <http://dx.doi.org/10.1155/2013/619576>.
- 38- Zomorodian K, Moein M, Lori Z G, Ghasemi Y, Rahimi M J, Bandegani A, **Pakshir K**, Abdollah Bazargani, Solmaz Mirzamohammadi & Nadia Abbasi Chemical Composition and Antimicrobial Activities of the Essential Oil from *Myrtus communis* Leaves. *Journal of Essential Oil Bearing Plants*. 2013;16:1, 76-84 <http://dx.doi.org/10.1080/0972060X.2013.764183>
- 39- **Pakshir K**, Zomorodian K, Karamitalab M, Jafari M, Taraz H, Ebrahimi H. Phospholipase, esterase and hemolytic activities of *Candida* spp. isolated from onychomycosis and oral lichen planus lesions *Journal de Mycologie Médicale* (2013) 23, 113—118.
- 40- Hemyari C, Zomorodian K, Ahrari I, Tavana S, Parva M, **Pakshir K**, Jafari P, Sahraian A. The mutual impact of personality traits on seating preference and educational achievement. *Eur J Psychol Educ* (2013) 28:863–877. DOI 10.1007/s10212-012-0144-3

- 41- Dehghan P, **Pakshir K**, Rafiei H, Chadeganipour M, Akbari M. Prevalence of Ochratoxin A in Human Milk in the Khorrambid Town, Fars Province, South of Iran. *Jundishapur J Microbiol* 2014; 7(7):e11220 - DOI: 10.5812/jjm.11220
- 42 - Ebrahimi H, **Pakshir K**, Pourshahidi S, Zomorodian K, Saki M, Saki N, Valizadeh M, Kardeh S. Prevalence of Common Candida Species in Oral Lichen Planus Patients: A Cross-Sectional Study in South of Iran. *Galen Medical Journal* 2014;3 (4):252-5.
- 43- Rafiei H, Dehghan P, **Pakshir K**, Chadegani Pour M, Akbari M. The concentration of aflatoxin M1 in the mothers' milk in Khorrambid City, Fars, Iran. *Adv Biomed Res.* 2014;3:152.
- 44- Haddadi P, Zareifar S, Badiie P, Alborzi A, Mokhtari M, Zomorodian K, **Pakshir K**, Jafarian H. Yeast Colonization and Drug Susceptibility Pattern in the Pediatric Patients With Neutropenia. *Jundishapur J Microbiol.* 2014 September ; 7(9): e11858.
- 45- Zomorodian K, Rahimi M J, Taheri M, Asad A G, Khani S, Ahrari I, **Pakshir K**, Khashei R. The Cutaneous Bacterial Microflora of the Bodybuilders Using Anabolic-Androgenic Steroids. *Jundishapur J Microbiol.* 2015 January; 8(1): e12269. DOI: 10.5812/jjm.12269
- 46- Zomorodian K, Ghadiri P, Saharkhiz M J, Moein M R, Mehriar P, Bahrani F, Golzar T, **Pakshir K**, Fani M M. Antimicrobial Activity of Seven Essential Oils From Iranian Aromatic Plants against Common Causes of Oral Infections. *Jundishapur J Microbiol* 2015; 8(2): e17766.
- 47- Saharkhiz M J, Kamyab A A, Kazerani N K, Zomorodian K, **Pakshir K**, Rahimi M J. Chemical Compositions and Antimicrobial Activities of *Ocimum sanctum* L. Essential Oils at Different Harvest Stages. *Jundishapur J Microbiol* 2015; 8(1): e13720.
- 48- Moein M R, Zomorodian K, **Pakshir K**, Yavari F, Motamedi M, Zarshenas M M. *Trachyspermum ammi* (L.) Sprague: Chemical Composition of Essential Oil and Antimicrobial Activities of Respective Fractions. *Journal of Evidence-Based Complementary & Alternative Medicine* 2015; 20(1): 50-56.
- 49- Zomorodian K, Ghadiri P, Saharkhiz MJ, Moein MR, Mehriar P, Bahrani F, Golzar T, **Pakshir K**, Fani MM. Antimicrobial activity of seven essential oils from Iranian aromatic plants against common causes of oral infections. *Jundishapur J Microbiol.* 2015 Feb 19; 8(2):e17766.
- 50- **Pakshir K**, Zomorodian K, Zakaie A, Motamedi M, Rahimi Ghiasi M, Karamitalab M. Molecular identification and *in-vitro* antifungal susceptibility

testing of *Candida* species isolated from patients with onychomycosis. *Curr Med Mycol.* 2015; 1(4): 26-32.

51- Zomorodian K, Bandegani A, Mirhendi H, **Pakshir K**, Alinejhad N, PoostforoushFard A. In Vitro Susceptibility and Trailing Growth Effect of Clinical Isolates of *Candida* Species to Azole Drugs. *Jundishapur J Microbiol.* 2016, 9(2): e28666

52- Ansari S, Hedayati MT, Zomorodian K, **Pakshir K**, Badali H, Rafiei A, Ravandeh M, Seyedmousavi S. Molecular Characterization and In Vitro Antifungal Susceptibility of 316 Clinical Isolates of dermatophytes in Iran. *Mycopathologia.* 2016 Feb; 181(1-2):89-95.

53- Zomorodian K, Kavooosi F, Pishdad G R, Mehriar P, Ebrahimi H, Bandegani A, **Pakshir K**. Prevalence of oral *Candida* colonization in patients with diabetes mellitus. *Prevalence of oral Candida colonization in patients with diabetes mellitus. Journal De Mycologie Médicale* (2016), <http://dx.doi.org/10.1016/j.mycmed.2015.12.008>

54- Zomorodian K, Pourshahid S, Sadatsharifi A, Mehryar P, **Pakshir K**, Rahimi M J, Arabi Monfared A. Biosynthesis and Characterization of Silver Nanoparticles by *Aspergillus* Species. *BioMed Research International* 2016, Article ID 5435397, 6 pages <http://dx.doi.org/10.1155/2016/5435397>

55- Zomorodian K, Safaei H R, Mousapour S, **Pakshir K**, Mousapour S, Safaei N, Jehbez S A. The Study on the Antifungal Activities of Novel Derivatives of Indole, Benzofuran and Dihydropyrimidine against *Candida*, *Aspergillus* and Dermatophytes Species by Broth Micro-Dilution Method. *J. of Advancement in Medical and Life Sciences* 2016; 4(4). ISSN: 2348-294X

56 - **Pakshir K**, Mohamadi T, Khodadadi H, Motamedifar M, Zomorodian K, Alipour S, Motamedi M. Proteolytic activity and cooperative hemolytic effect of dermatophytes with different species of bacteria. *Curr Med Mycol.* 2016; 2(4): 9-14. DOI: [10.18869/acadpub.cmm.2.4.9](https://doi.org/10.18869/acadpub.cmm.2.4.9).

57- Sepaskhah M, Sadat M S, **Pakshir K**, Bagheri Z. Comparative efficacy of topical application of tacrolimus and clotrimazole in the treatment of pityriasis versicolor: a single blind, randomised clinical trial. *Mycoses*, 2017, DOI: [10.1111/myc.12598](https://doi.org/10.1111/myc.12598).

58- Zomorodian K, Moein M, **Pakshir K**, Karami F, Sabahi Z. Chemical Composition and Antimicrobial Activities of the Essential Oil From *Salvia mirzayanii* Leaves. *Journal of evidence-based complementary & alternative medicine.* 2017 Jan 1:2156587217717414.

59- Moein M, Zomorodian K, Almasi M, **Pakshir K**. Preparation and Analysis of Rosa damascena Essential Oil Composition and Antimicrobial Activity Assessment of Related Fractions. Iranian Journal of Science and Technology, March 2017, Volume 41, Issue 1, pp 87–9.

60- Jafari M, Salari S, **Pakshir K**, Zomorodian K. Exoenzyme activity and possibility identification of Candida dubliniensis among Candida albicans species isolated from vaginal candidiasis. Microbial pathogenesis. 2017 Jun 20;110:73.

61- Sadeghpour H, Khabnadideh S, Zomorodian K, **Pakshir K**, Hoseinpour K, Javid N, Faghih-Mirzaei E, Rezaei Z. Design, Synthesis, and Biological Activity of New Triazole and Nitro-Triazole Derivatives as Antifungal Agents. Molecules. 2017 Jul 10; 22(7):1150.

62-Pakshir, K., Bordbar, M., Zomorodian, K., Nouraei, H. and Khodadadi, H., 2017. Evaluation of CAMP-Like Effect, Biofilm Formation, and Discrimination of Candida africana from Vaginal Candida albicans Species. *Journal of Pathogens*, 2017. 5 pages

Research interest:

- Antifungal susceptibility tests
- Fungal infectious diseases
- Molecular Mycology
- Epidemiology of fungi
- Fungal pathogenesis

Awards

- 1993 and 1999 - Elected student of M.S.P.H and PhD Course.
- 2001 and 2002 - Elected professor of Shiraz medical school (on behalf of Paramedical students)
- 2004 and 2006 - Elected professor of Shiraz Medical School (on behalf of Medical students)
- 2006 Elected professor of Shiraz medical school (on behalf of Pharm D students)
- 2011 Elected professor of Shiraz medical school (on behalf of Shiraz University of medical sciences)

-2012 Elected professor of Shiraz medical school (on behalf of Shiraz University of medical sciences)

-2015 Elected professor of Shiraz medical school (on behalf of Shiraz University of medical sciences)