

Curriculum vitae

Hossein Mirhendi, Professor,

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Personal

Born in 1964, Esfahan, Iran

Married on 1991, one son and one daughter

Education

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| 1987 | B.S. Public Health. Tehran University of Medical Sciences |
| 1991 | MSPH. Medical Mycology, Tehran University of Medical Sciences |
| 2001 | Ph.D. Medical Mycology, Tehran University of Medical Sciences |
| 2002 | PhD completion, Teikyo University Institute of Medical Mycology, Tokyo Japan, for six months |
| 2003 | Postdoctoral Fellow, Molecular Mycology, Genome Research Center, Teikyo University, Tokyo, Japan, Six months |
| 2007 | Sabbatical, Statens Serum Institute, Copenhagen, Denmark, Three months |
| 2010 | Sabbatical, Genome Research Center, Teikyo University, Tokyo, Japan, Six months |

Professional Positions

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| 2012 – now: | Full Professor, Tehran University of Medical Sciences and Isfahan University of Medical Sciences |
| 2008 – 2012: | Associate Professor, Tehran University of Medical Sciences |
| 2003 – 2007: | Assistant Professor, Tehran University of Medical Sciences |
| 1992 – 1997: | Instructor, Tehran University of Medical Sciences |

Teaching Experiences

Medical Mycology for Medical students
Medical Mycology for Pharmacy students
Medical Mycology for MSPH students (infectious disease specialists)
Medical Mycology for Medical Technology (Medical Lab Science)
Medical Mycology for MSc and PhD students in Parasitology
Introductory Mycology for MSc Students in Medical Mycology
Superficial mycotic diseases for MSc students in Medical Mycology
Cutaneous and mucosal mycotic infections for MSc students in Medical Mycology
Deep mycotic infections for MSc students in Medical Mycology
Advanced Mycology for PhD students in Medical Mycology
Epidemiology of fungal infections for PhD students in Medical Mycology
Pathogenesis of opportunistic fungal infections for PhD students in Medical Mycology
Molecular Mycology for PhD students in Medical Mycology
Supervision and teaching in several workshops on Introductory and Advanced Diagnostic Molecular Biology

Supervision of Dissertations

Supervision of Ms. students: 26 students
Supervision of PhD students: 23 students

Innovations

Developing, evaluation and presentation of some diagnostic kits including:

- Kit for identification of medically important yeasts based on PCR-RFLP
- Kit for molecular identification of clinical isolates of dermatophytes
- Kit for identification of *Malassezia* species by PCR-RE
- Kit for detection of *Leishmania* spp. in clinical samples

PubMed/ISI-Sited Papers

- Hassanpour G, Mirhendi H, Mohebbali M, Raeisi A, Zeraati H, Keshavarz H. Simplified Pan-species Real-time PCR-based Detection of Plasmodium Spp. in Blood Smear. *Iran J Parasitol.* 2016 Oct-Dec;11(4):463-470. PubMed PMID: 28127357.
- Khodadadi H, Karimi L, Jalali-Zand N, Adin H, Mirhendi H. Utilization of size polymorphism in ITS1 and ITS2 regions for identification of pathogenic yeast species. *J Med Microbiol.* 2017 Jan 9. doi: 10.1099/jmm.0.000426. [Epub ahead of print] PubMed PMID: 28068213.
- Gorouhi MA, Vatandoost H, Oshaghi MA, Raeisi A, Enayati AA, Mirhendi H, Hanafi-Bojd AA, Abai MR, Salim-Abadi Y, Rafi F. Current Susceptibility Status of *Anopheles stephensi* (Diptera: Culicidae) to Different Imagicides in a Malarious Area, Southeastern of Iran. *J Arthropod Borne Dis.* 2016 Oct 4;10(4):493-500. PubMed PMID: 28032101; PubMed Central PMCID: PMC5186739.
- Salim-Abadi Y, Oshaghi MA, Enayati AA, Abai MR, Vatandoost H, Eshraghian MR, Mirhendi H, Hanafi-Bojd AA, Gorouhi MA, Rafi F. High Insecticides Resistance in *Culex pipiens* (Diptera: Culicidae) from Tehran, Capital of Iran. *J Arthropod Borne Dis.* 2016 Oct 4;10(4):483-492. PubMed PMID: 28032100; PubMed Central PMCID:PMC5186738.
- 5: Motamedi M, Ghasemi Z, Shidfar MR, Hosseinpour L, Khodadadi H, Zomorodian K, Mirhendi H. Growing Incidence of Non-Dermatophyte Onychomycosis in Tehran, Iran. *undishapur J Microbiol.* 2016 Jul 26;9(8):e40543. PubMed PMID: 27800138; PubMed Central PMCID: PMC5080915.
- de Hoog GS, Dukik K, Monod M, Packeu A, Stubbe D, Hendrickx M, Kupsch C, Stielow JB, Freeke J, Göker M, Rezaei-Matehkolaei A, Mirhendi H, Gräser Y. Toward a Novel Multilocus Phylogenetic Taxonomy for the Dermatophytes. *Mycopathologia.* 2016 Oct 25. [Epub ahead of print] PubMed PMID: 27783317.
- Riyahi Zaniani F, Moghim S, Mirhendi H, Ghasemian Safaei H, Fazeli H, Salehi M, Nasr Esfahani B. Genetic Lineages of *Mycobacterium tuberculosis* Isolates in Isfahan, Iran. *Curr Microbiol.* 2017 Jan;74(1):14-21. doi: 10.1007/s00284-016-1145-2. PubMed PMID: 27743106.

- Hosseini-Vasoukolaei N, Idali F, Khamesipour A, Yaghoobi-Ershadi MR, Kamhawi S, Valenzuela JG, Edalatkhah H, Arandian MH, Mirhendi H, Emami S, Jafari R, Saeidi Z, Jeddi-Tehrani M, Akhavan AA. Differential expression profiles of the salivary proteins SP15 and SP44 from *Phlebotomus papatasi*. *Parasit Vectors*. 2016 Jun 24;9(1):357. doi: 10.1186/s13071-016-1633-z. PubMed PMID: 27342811; PubMed Central PMCID: PMC4919860.
- Lotfali E, Kordbacheh P, Mirhendi H, Zaini F, Ghajari A, Mohammadi R,
- Noorbakhsh F, Moazeni M, Fallahi A, Rezaie S. Antifungal Susceptibility Analysis of Clinical Isolates of *Candida parapsilosis* in Iran. *Iran J Public Health*. 2016 Mar;45(3):322-8. PubMed PMID: 27141494; PubMed Central PMCID: PMC4851746.
- Izadi S, Mirhendi H, Jalalizand N, Khodadadi H, Mohebbali M, Nekoeian S, Jamshidi A, Ghatee MA. Molecular Epidemiological Survey of Cutaneous Leishmaniasis in Two Highly Endemic Metropolises of Iran, Application of FTA Cards for DNA Extraction From Giemsa-Stained Slides. *Jundishapur J Microbiol*. 2016 Feb 15;9(2):e32885. doi: 10.5812/jjm.32885. PubMed PMID: 27127596; PubMed Central PMCID: PMC4842251.
- Zomorodian K, Bandegani A, Mirhendi H, Pakshir K, Alinejhad N, Poostforoush Fard A. In Vitro Susceptibility and Trailing Growth Effect of Clinical Isolates of *Candida* Species to Azole Drugs. *Jundishapur J Microbiol*. 2016 Feb 20;9(2):e28666. doi: 10.5812/jjm.28666. PubMed PMID: 27127587; PubMed Central PMCID: PMC4841996.
- Abastabar M, Mirhendi H, Hedayati MT, Shokohi T, Rezaei-Matehkolaei A, Mohammadi R, Badali H, Moazeni M, Haghani I, Ghoghghi A, Akhtari J. Genetic and Morphological Diversity of the Genus *Penicillium* From Mazandaran and Tehran Provinces, Iran. *Jundishapur J Microbiol*. 2016 Jan 9;9(1):e28280. doi: 10.5812/jjm.28280. PubMed PMID: 27099684; PubMed Central PMCID: PMC4833887.
- Mirhendi H, Motamedi M, Makimura K, Satoh K. Development a diagnostic pan-dermatophyte TaqMan probe real-time PCR assay based on beta tubulin gene. *Mycoses*. 2016 Aug;59(8):520-7. doi: 10.1111/myc.12502. PubMed PMID: 27071371.
- Hosseini-Vasoukolaei N, Mahmoudi AR, Khamesipour A, Yaghoobi-Ershadi MR, Kamhawi S, Valenzuela JG, Arandian MH, Mirhendi H, Emami S, Saeidi Z, Idali F,

Jafari R, Jeddi-Tehrani M, Akhavan AA. Seasonal and Physiological Variations of *Phlebotomus papatasi* Salivary Gland Antigens in Central Iran. *J Arthropod Borne Dis*. 2015 Jun 27;10(1):39-49. PubMed PMID: 27047970; PubMed Central PMCID: PMC4813401.

- Ahmadi B, Mirhendi H, Makimura K, de Hoog GS, Shidfar MR, Nouripour-Sisakht S, Jalalizand N. Phylogenetic analysis of dermatophyte species using DNA sequence polymorphism in calmodulin gene. *Med Mycol*. 2016 Jul 1;54(5):500-14. doi: 10.1093/mmy/myw004. PubMed PMID: 26868901.
- Mirhendi H, Zarei F, Motamedi M, Nouripour-Sisakht S. *Aspergillus tubingensis* and *Aspergillus niger* as the dominant black *Aspergillus*, use of simple PCR-RFLP for preliminary differentiation. *J Mycol Med*. 2016 Mar;26(1):9-16. doi: 10.1016/j.mycmed.2015.12.004. PubMed PMID: 26852194.
- Badali H, Fakhim H, Zarei F, Nabili M, Vaezi A, Poorzad N, Dolatabadi S, Mirhendi H. In Vitro Activities of Five Antifungal Drugs Against Opportunistic Agents of *Aspergillus Nigri* Complex. *Mycopathologia*. 2016 Apr;181(3-4):235-40. doi: 10.1007/s11046-015-9968-0. PubMed PMID: 26615417.
- Masoumi O, Shahzadi M, Kordbacheh P, Zaini F, Mahmoudi S, Mahmoudi M, Bahreini H, Safara M, Mirhendi H. Detection of Fungal Elements in Atherosclerotic Plaques Using Mycological, Pathological and Molecular Methods. *Iran J Public Health*. 2015 Aug; 44(8):1121-5. PubMed PMID: 26587476; PubMed Central PMCID: PMC4645732.
- Mirjalali H, Mirhendi H, Meamar AR, Mohebbi M, Askari Z, Mirsamadi ES, Rezaeian M. Genotyping and molecular analysis of *Enterocytozoon bieneusi* isolated from immunocompromised patients in Iran. *Infect Genet Evol*. 2015 Dec; 36:244-9. doi: 10.1016/j.meegid.2015.09.022. PubMed PMID: 26423670.
- Zarei F, Mirhendi H, Motamedi M, Ahmadi B, Nouripour-Sisakht S, Zarrinfar H, Jalalizand N, Hashemi J. Black *Aspergillus* species isolated from clinical and environmental samples in Iran. *J Med Microbiol*. 2015 Nov;64(11):1454-6. doi: 10.1099/jmm.0.000166. PubMed PMID: 26384733.
- Sharifdini M, Mirhendi H, Ashrafi K, Hosseini M, Mohebbi M, Khodadadi H, Kia EB. Comparison of Nested Polymerase Chain Reaction and Real-Time Polymerase Chain Reaction with Parasitological Methods for Detection of *Strongyloides stercoralis* in

Human Fecal Samples. *Am J Trop Med Hyg.* 2015 Dec;93(6):1285-91. doi: 10.4269/ajtmh.15-0309. PubMed PMID: 26350449; PubMed Central PMCID: PMC4674247.

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- Zahraei-Ramazani A, Kumar D, Mirhendi H, Sundar S, Mishra R, Moin-Vaziri V, Soleimani H, Shirzadi MR, Jafari R, Hanafi-Bojd AA, Shahraky SH, Yaghoobi-Ershadi MR. Morphological and Genotypic Variations among the Species of the Subgenus *Adlerius* (Diptera: Psychodidae, Phlebotomus) in Iran. *J Arthropod Borne Dis.* 2014 Jul 16;9(1):84-97. PubMed PMID: 26114146; PubMed Central PMCID: PMC4478421.
- Sharifdini M, Kia EB, Ashrafi K, Hosseini M, Mirhendi H, Mohebbali M, Kamranrashani B. An Analysis of Clinical Characteristics of *Strongyloides stercoralis* in 70 indigenous patients in Iran. *Iran J Parasitol.* 2014 Apr-Jun;9(2):155-62. PubMed PMID: 25848380; PubMed Central PMCID: PMC4386034.
- Mirjalali H, Mohebbali M, Mirhendi H, Gholami R, Keshavarz H, Meamar AR, Rezaeian M. Emerging Intestinal Microsporidia Infection in HIV(+)/AIDS Patients in Iran: Microscopic and Molecular Detection. *Iran J Parasitol.* 2014 Apr-Jun;9(2):149-54. PubMed PMID: 25848379; PubMed Central PMCID: PMC4386033.
- Zarrinfar H, Mirhendi H, Fata A, Khodadadi H, Kordbacheh P. Detection of *Aspergillus flavus* and *A. fumigatus* in Bronchoalveolar Lavage Specimens of Hematopoietic Stem Cell Transplants and Hematological Malignancies Patients by Real-Time Polymerase Chain Reaction, Nested PCR and Mycological Assays. *Jundishapur J Microbiol.* 2014 Dec 17;8(1):e13744. doi: 10.5812/jjm.13744. PubMed PMID: 25763133; PubMed Central PMCID: PMC4344768.
- Zarei F, Mirhendi H, Fakhim H, Geramishoar M. The first case of onychomycosis due to *Aspergillus uvarum* (section *Nigri*). *Mycoses.* 2015 Apr;58(4):239-42. doi: 10.1111/myc.12304. PubMed PMID: 25728245.
- Diba K, Makhdoomi K, Mirhendi H. Molecular characterization of *Aspergillus* infections in an Iranian educational hospital using RAPD-PCR method. *Iran J Basic Med Sci.* 2014 Sep;17(9):646-50. PubMed PMID: 25691939; PubMed Central PMCID: PMC4322146.
- Nouripour-Sisakht S, Mirhendi H, Shidfar MR, Ahmadi B, Rezaei-Matehkolaei A, Geramishoar M, Zarei F, Jalalizand N. *Aspergillus* species as emerging causative

agents of onychomycosis. *J Mycol Med.* 2015 Jun;25(2):101-7. doi: 10.1016/j.mycmed.2014.12.001. PubMed PMID: 25656408.

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- Mirhendi H, Makimura K, de Hoog GS, Rezaei-Matehkolaei A, Najafzadeh MJ, Umeda Y, Ahmadi B. Translation elongation factor 1- α gene as a potential taxonomic and identification marker in dermatophytes. *Med Mycol.* 2015 Apr;53(3):215-24. doi: 10.1093/mmy/myu088. PubMed PMID: 25550390.
- Zia M, Mirhendi H, Toghyani M. Detection and identification of *Malassezia* species in domestic animals and aquatic birds by PCR-RFLP. *Iran J Vet Res.* 2015 Winter;16(1):36-41. PubMed PMID: 27175148; PubMed Central PMCID: PMC4789237.
- Ahmadi B, Mirhendi H, Shidfar MR, Nouripour-Sisakht S, Jalalizand N, Geramishoar M, Shokoohi GR. A comparative study on morphological versus molecular identification of dermatophyte isolates. *J Mycol Med.* 2015 Mar;25(1):29-35. doi: 10.1016/j.mycmed.2014.10.022. PubMed PMID: 25533610.
- Khodadadi H, Mirhendi H, Makimura K, Satoh K, Karimi L, Izadi S. β -D-Glucan Assay in Diagnosis and Monitoring the Systemic Candidiasis in a Rat Model. *Jundishapur J Microbiol.* 2014 Jun;7(6):e10247. doi: 10.5812/jjm.10247. PubMed PMID: 25371794; PubMed Central PMCID: PMC4217672.
- Diba K, Mirhendi H, Kordbacheh P, Rezaie S. Development of RFLP-PCR method for the identification of medically important *Aspergillus* species using single restriction enzyme *Mwo*I. *Braz J Microbiol.* 2014 Aug 29;45(2):503-7. PubMed PMID: 25242934; PubMed Central PMCID: PMC4166275.
- Rezaei-Matehkolaei A, Mirhendi H, Makimura K, de Hoog GS, Satoh K, Najafzadeh MJ, Shidfar MR. Nucleotide sequence analysis of beta tubulin gene in a wide range of dermatophytes. *Med Mycol.* 2014 Oct 1;52(7):674-88. doi: 10.1093/mmy/myu033. Epub 2014 Jul 30. PubMed PMID: 25079222.
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- Mikaeili F, Mirhendi H, Mohebbali M, Hosseini M, Sharbatkhori M, Zarei Z, Kia EB. Sequence variation in mitochondrial *cox1* and *nad1* genes of ascaridoid nematodes

in cats and dogs from Iran. *J Helminthol.* 2014 Apr 9:1-6. [Epub ahead of print] PubMed PMID: 24717402.

- Abastabar M, Mirhendi H, Rezaei-Matehkolaei A, Shidfar MR, Kordbacheh P, Makimura K. Restriction analysis of β -tubulin gene for differentiation of the common pathogenic dermatophytes. *J Clin Lab Anal.* 2014 Mar;28(2):91-6. doi: 10.1002/jcla.21649. Epub 2014 Jan 6. PubMed PMID: 24395510.
- Diba K, Mirhendi H, Kordbacheh P, Rezaie S. Development of RFLP-PCR method for the identification of medically important *Aspergillus* species using single restriction enzyme *Mwo*I. *Braz J Microbiol.* 2014 Aug 29;45(2):503-7. eCollection 2014. PubMed PMID: 25242934; PubMed Central PMCID: PMC4166275.
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- Mirhendi M, Emtiazi G, Roghanian R. Production of nano zinc, zinc sulphide and nanocomplex of magnetite zinc oxide by *Brevundimonas diminuta* and *Pseudomonas stutzeri*. *IET Nanobiotechnol.* 2013 Dec;7(4):135-9. doi: 10.1049/iet-nbt.2012.0032. PubMed PMID: 24206770.
- Zarrinfar H, Mirhendi H, Makimura K, Satoh K, Khodadadi H, Paknejad O. Use of mycological, nested PCR, and real-time PCR methods on BAL fluids for detection of *Aspergillus fumigatus* and *A. flavus* in solid organ transplant recipients. *Mycopathologia.* 2013 Dec;176(5-6):377-85. doi: 10.1007/s11046-013-9657-9. Epub 2013 Sep 18. PubMed PMID: 24045934.
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