

Curriculum Vitae

Name: Hasan Shojaei

Place of Birth: Tehran, Iran

Date of Birth: 9-12- 1956

Marital status: Married

Academic position: Professor



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Education

- **B.Sc:** Biology, National University of Iran, Tehran, Iran. 23/9/1975-23/9/1980
- **M.Sc.:** Medical Microbiology, Tehran University of Medical Sciences, Tehran, Iran. 23/9/89-23/9/1991
- **PhD:** Molecular Microbial Systematics, Department of Microbiology, School of Medicine; University of Newcastle upon Tyne, United Kingdom. 1/3/1994-20/12/1997

PhD thesis: Molecular systematics of some medically important actinomycetes. 1997.

Academic experience

- **2011-todate: Professor.** Dept of Microbiology, Medical school & Infectious Diseases Research Center, Isfahan University of Medical Sciences, Isfahan, Iran
- **2002- 2011: Associate professor:** Dept of Microbiology, Medical school & Infectious Diseases Research Center, Isfahan University of Medical Sciences, **Isfahan**, Iran.
- **1997-2002: Assistant professor:** Dept. of Microbiology, Shahrekord University of Medical Sciences, **Shahrekord**, Iran.

- **1990-1994: Lecturer in Microbiology and Molecular Biology.** Shahrekord University of Medical Sciences, **Shahrekord**, Iran.

Professional experience

- **1996-1997: Witness Expert:** In an industrial infringement case, High Court of Justice, Chancery Division, United Kingdom. A major role as a molecular taxonomist in determining the outcome of an industrial infringement case between SMITHKLINE BEECHAM PLC and LEK PHARMACEUTICAL company.
- **1997-2002: Deputy for Research.** Shahrekord University of Medical Sciences, Shahrekord, Iran.
- **2003-Todate: Member of Strategic & Research Committee.** Iranian Molecular Medicine Network.
- **2011-2018: Board of Iranian Microbiology Association**
- **2003-2005: Head of Research Institute.** Isfahan University of Medical Sciences, Isfahan, Iran.
- **2000-2007: Consultant for Health Systems Research.** Iranian Deputy for Research & Biotechnology. Tehran. Iran.

Microbiology and molecular skills

- Basic and advanced microbiology and molecular skills in particular with regard to Mycobacteria, Nocardia, Streptomyces; *Helicobacter pylorie*; *Clostridium difficile*; Pathogenic Shigella and Solmoenlla; MRSA Staphylococcus; *Listeria monocytogenes* and *Campylobacter jejuni*.
- DNA extraction, PCR, cloning
- DNA hybridization and probing including Ribotyping, RFLP, etc,
- MLST; Multilocus sequence typing (*MLST*)
- Multiple sequence alignment (MSA) and phylogenetic trees construction
- 16S rDNA, *hsp65*, *rpoB* and 16S-23S rDNA internal transcribed spacer (ITS) sequencing analyses
- Randomly Amplified Polymorphic DNA (RAPD) fingerprinting

Educational courses

- A two-month course on Health Systems Research. EMRO-World Health Organization. Thailand Health Systems Research Institute. Bangkok, Thailand. 2002.
- A one-week workshop on Research and Development. COHRED & WHO. Tehran. Iran. 2001.
- A four-week educational visit from family health care program in Singapore, Thailand and Malaysia. World Health Organization. 1985.
- A nine-week course on management and programming of primary health care. World Health Organization, Zagreb, Yugoslavia. 1988
- A one-week course on expanded program on immunization. National Institute for Health Research. Tehran, Iran.1985
- A two-week course on control of diarrheal diseases. National Institute for Health Research. Tehran, Iran.1986

Research projects**Current Projects:**

- A comprehensive study on secondary metabolite production by Mycobacteria and Nocardia isolated from Iranian medicinal herbs, 2019-todate

Accomplished Projects

- Screening, isolation and molecular identification of biodegrading mycobacteria and nocardia from Iranian ecosystems and analysis of their biodegradation activity. 2015-2018
- Characterization of novel mycobacteria species with biodegrading activities isolated from Iranian ecosystems. 2016-2019 (the corresponding manuscript has been finalized for publication)
- Study on identification and molecular characterization of mycobacteria isolated from animal sources in Iran, 2016-2020

- Study on Phenotypic and Genotypic Characteristics of *Clostridium difficile* Isolates from Iranian Patients, 2016-2019
- Study on diversity of atypical mycobacteria isolated from water resources of Iranian hospitals by application of conventional and molecular microbiological approaches. 2010-to 2017.
- Study on Prevalence and molecular characterization of non-tuberculous mycobacteria in hospital soil and dust of Iran; (2019)
- Study on diversity of *Nocardia* spp. isolated from Isfahan hospitals environments by application of conventional and molecular microbiological approaches-2011- 2017
- Genetic diversity of community-acquired Methicillin resistant *Staphylococcus aureus* isolated from 2-6 year old children by MultiLocus Sequence Typing (MLST), Isfahan, Iran. 2012- 2017.
- Study of dysentery outbreak in Naein & Ardestan, Isfahan by conventional and advanced Molecular Microbiology.2007-2008.
- Molecular characterization of of mycobacteria isolated from clinical Specimens of Iranian patients. Iran. 2007-2010.
- Molecular characterization of of nocardia isolated from clinical Specimens of Iranian patients. Iran. 2007-2010.
- Genotyping study of Co-trimoxazole resistant *E. coli* strains in women with bacteriuria using molecular systematic approaches in Isfahan, Iran. 2006-2010
- A Comprehensive study on molecular epidemiology of pathogenic *Helicobacter pylori* in Isfahan, Iran. 2006 -2008.
- Development and Establishment of Health System Research Information Networking. Iran. 2002.
- Bacteriologic analysis of clean surgical wounds in surgery wards -Chahar-Mahal & Bakhtiari Hospitals. Iran. 2000.
- Study of bacterial hand contamination in food handlers. Iran. 2000
- Study of Vaginosis due to *Gardenella vaginalis*. Shahrekord, Iran. 1999-2000.
- Study of Medical students' success and failure. Shahrekord, Iran. 2000.

- Development of Health Systems Research in Iranian Primary Health Care Networking.Iran. 2000.
- Study of Deaning pattern in Shahrekord university of Medical Sciences. Shahrekord, Iran.1999.
- Study of bacteriuria in pregnancy in urban regions of Shahrekord, Iran.1999
- Molecular analysis of some medically important actinomycetes (PhD thesis). 1994-1997.

Novel Microbial Species Discovery

- *Mycobacterium meyganeense* sp. nov., *Mycobacterium omidense* sp. nov., *Mycobacterium seymareense* sp. nov., *Mycobacterium austroafricanum* subspecies *dezfulense* subsp. nov., bioremediation-capable novel species from Iranian environmental samples. **2020** (A joint project with BCCM/ITM Mycobacterial Culture Collection, Institute of Tropical Medicine, Antwerp, Belgium; Finalized for Publication, Corresponding author; Conor J Meehan, email: c.meehan2@bradford.ac.uk)
- **Shojaei H**, Daley C, Gitti Z, Hashemi A, Heidarieh P, Moore ER, Daei Naser A, Russo C, van Ingen J, Tortoli E. **(2013)**. *Mycobacterium iranicum* sp. nov., a rapidly-growing scotochromogenic species isolated from clinical specimens on three different continents. *Int J Syst Evol Microbiol.* Apr;63(Pt 4):1383-9.
- **Shojaei H**, Magee JG, Freeman R, Yates M, Horadagoda NU, Goodfellow M. **(2000)**. *Mycobacterium elephantis* sp, nov. a rapidly growing *Mycobacterium*. *International Journal of Systematic Bacteriology*.50.1817-19.
- **Shojaei H**, Goodfellow M, Magee JG, Freeman R, Gould FK, Brignall CG. **(1997)**, *Mycobacterium novocastrense* sp. nov, a rapidly-growing photochromogenic *Mycobacterium*. *International Journal of Systematic Bacteriology* 47: 1205-1207.

Publications

- Gut microbiota in burned patients with *Clostridioides difficile* infection. **(2021)** Shoaei P, Shojaei H, Siadat SD, Moshiri A, Vakili B, Yadegari S, Ataei B, Khorvash F. *Burns*.

- 2021 Dec 1:S0305-4179(21)00345-4. doi: 10.1016/j.burns.2021.11.023. Epub ahead of print. PMID: 34924229.
- Molecular Typing of Community-acquired Methicillin-Resistant *Staphylococcus aureus* Isolated from 2- to 6-year old Children by Staphylococcal Protein A and Agr Typing in Isfahan, Iran. (2021) Mobasherizadeh S, **Shojaei H**, Azadi D, Havaei SA, Ataei B, Khorvash F. Adv Biomed Res. Jan 27;10:3. doi: 10.4103/abr.abr_139_20. PMID: 33959560; PMCID: PMC8095255.
 - Phenotypic and Genotypic Characteristics of *Clostridium difficile* Isolates in Patients with Type 2 Diabetes in Iran; (2020). Parisa Shoaeh, **Hasan Shojaei**, Kiana Shirani *Infection and Drug Resistance*; Volume 13 Pages 683 – 690; DOI <https://doi.org/10.2147/IDR.S225829>
 - Identification and molecular characterization of mycobacteria isolated from animal sources in a developing country; (2020) R Dibaj, **H Shojaei**, T Narimani; *Acta Tropica* 204, 105297
 - Prevalence and molecular characterization of non-tuberculous mycobacteria in hospital soil and dust of a developing country, Iran; (2019) M Davarpanah, D Azadi, **H Shojaei**; *Microbiology* 165 (12), 1306-1314
 - *Clostridium difficile* isolated from faecal samples in patients with ulcerative colitis; (2019) P Shoaeh, **H Shojaei**, M Jalali, F Khorvash, SM Hosseini, B Ataei, B Vakili et al., *BMC infectious diseases* 19 (1), 361
 - Molecular epidemiology of *Clostridium difficile* infection in Iranian hospitals; (2019) P Shoaeh, **H Shojaei**, F Khorvash, SM Hosseini, B Ataei, H Tavakoli, ...; *Antimicrobial Resistance & Infection Control* 8 (1), 12
 - Molecular characterization and genotyping of methicillin-resistant *Staphylococcus aureus* in nasal carriage of healthy Iranian children (2019); S Mobasherizadeh, **H Shojaei**, D Azadi, SA Havaei, S Rostami; *Journal of Medical Microbiology* 68 (3), 374-378.
 - *Clostridium difficile* infection in cancer patients with hospital acquired diarrhea at the teaching hospitals in Iran: Multilocus sequence typing analysis (MLST) and ...; (2019) P

- Shojaei, **H Shojaei**, F Khorvash, MS Hosseini, B Ataei, Z Esfandiari, ...; *Ann. Ig* 31 (4), 365-373.
- A case report of brain abscess caused by *Nocardia cyriacigeorgica* in a diabetic patient; (2018). M Khorshidi, S Navid, D Azadi, D Shokri, **H Shojaei**; *JMM case reports* 5 (9)
 - Mycobacteriosis and tuberculosis: laboratory diagnosis; (2018) D Azadi, T Motallebirad, K Ghaffari, **H Shojaei**; *The Open Microbiology Journal* 12, 41
 - Screening, isolation and molecular identification of biodegrading mycobacteria from Iranian ecosystems and analysis of their biodegradation activity; (2018), D Azadi, **H Shojaei**, S Mobasherizadeh, AD Naser; *AMB Express* 7 (1), 180,
 - Molecular analysis and species diversity of *Nocardia* in hospital environment of a developing country, a potential health hazard. (2017). Rahdar, A, Azadi, D, **Hasan Shojaei** H, Abbas Daei naser. *Journal of Medical Microbiology*. 66 (3), 334-341
 - Azadi, D., **Shojaei, H.**, Pourchangiz, M., Dibaj, R., Davarpanah, M. and Naser, A.D., (2016). Species diversity and molecular characterization of nontuberculous mycobacteria in hospital water system of a developing country, Iran. *Microbial Pathogenesis*. 100, 62-69
 - Mobasherizadeh, S., **Shojaei, H.**, Havaei, S.A., Mostafavizadeh, K., Davoodabadi, F., Khorvash, F., Kushki, A.M., Daei-Naser, A. and Ghanbari, F., (2016). Nasal carriage screening of community-associated methicillin resistant *Staphylococcus aureus* in healthy children of a developing country. *Advanced Biomedical Research*, 5(1), p.144.
 - Rahdar, H.A., Azadi, D., Daeinaser, A. and **Shojaei, H.**, (2016). Comparison of Three Methods of Isolation of the Genus *Nocardia* from the Soil of Hospitals in Isfahan Province, Iran, and its Identification Based on Phenotypic and Molecular Methods. *Journal of Kerman University of Medical Sciences*, 23(1), pp.44-54.
 - Azadi, D. and **Shojaei, H.**,(2016). The role of the laboratory in the diagnosis of tuberculosis. *Iranian Journal of Medical Microbiology*, 10(2), pp.1-15.
 - Azadi D, Dibaj R, , Pourchangiz M, Naser AD, **Shojaei H.** (2016). First isolation of *Mycobacterium setense* from hospital water. *Journal of Coastal Life Medicine* . 4(4)331-333 DOI 10.12980/jclm.4.2016J5-121.

- **Shojaei H;** Rahdar HA. (2016). First report of isolation of *Nocardia otitidiscaviarum* from hospital water. *Journal of Coastal Life Medicine*. doi: 10.12980/jclm.4.2016J6-871.
- Mobasherizadeh, S., **Shojaei, H.**, Havaei, S.A., Mostafavizadeh, K., Davoodabadi, F., Khorvash, F., Ataei, B. and Daei-Naser, A. (2015). Application of the Random Amplified Polymorphic DNA (RAPD) Fingerprinting to Analyze Genetic Variation in Community Associated-Methicillin Resistant *Staphylococcus Aureus* (CA-MRSA) Isolates in Iran. *Global journal of health science*, 8(8), p.185.
- Azadi D, Dibaj R, , Pourchangiz M, Naser AD, **Shojaei H.** (2014). First Report of Isolation of *Mycobacterium canariasense* from Hospital Water Supplies. *Scandinavian Journal of Infectious Diseases*. 1-5.
- Raji, S.H., **Shojaei, H.**, Ghorani, P.S. and Rafiei, E., (2014). Bacterial colonization on coated and uncoated orthodontic wires: A prospective clinical trial. *Dental research journal*, 11(6), p.680.
- Azadi D, Dibaj R; Pourchangiz M; Naser AD; **Shojaei H.** (2014). Molecular Isolation of Biodegradable mycobacteria from water supplies of Iranian hospitals. *Iranian Journal of Microbiology*, 6(4), 240-245.
- Dibaj R, Azadi D, Karami M, Naser AD, **Shojaei H.** (2014). First report of isolation of *Mycobacterium novocastrense* from water supplies. *Acta Pathologica, Microbiologica, et Immunologica Scandinavica* (APMIS). May;122(5):459-61.
- Nasiri, M. J., Rezaei, F., Zamani, S., Darban-Sarokhalil, D., Fooladi, A. A. I., **Shojaei, H.**, & Feizabadi, M. M. (2014). Drug resistance pattern of *Mycobacterium tuberculosis* isolates from patients of five provinces of Iran. *Asian Pacific Journal of Tropical Medicine*, 7(3), 193-196.
- Dibaj, R., Aslani, M. M., Heidarieh, P., Hashemi, A., Ataei, B., Daei-Naser, A., & **Shojaei, H.** (2014). Conventional and molecular investigation of *Shigella* isolates in relation to an outbreak in the area of Isfahan, Iran. *Iranian Journal of Microbiology*, 5(4), 339-344.

- Dibaj, R., Shojaei, P. and Shojaei, H., (2014). Study of Prevalence and Characteristics of Staphylococcus aureus and CA-MRSA Nasal Colonization in 2-5 Years Old Children in Isfahan. *Iranian Journal of Medical Microbiology*, 8(3), pp.22-30.
- Azadi, D., Dibaj, R., Naser, A.D. and **Shojaei, H.** (2013). Isolation of Nontuberculous Mycobacteria Existing in Isfahan (Iran) Hospital Water Supplies by Phenotypic Method. *Journal of Isfahan Medical School*, 30 (222).
- Shojaei, H., Daley, C., Gitti, Z., Hashemi, A., Heidarieh, P., Moore, E.R., Naser, A.D., Russo, C., van Ingen, J. and Tortoli, E., (2013). *Mycobacterium iranicum* sp. nov., a rapidly growing scotochromogenic species isolated from clinical specimens on three different continents. *International Journal of Systematic and Evolutionary Microbiology*, 63(4), pp.1383-1389.
- Hashemi-Shahraki A, Heidarieh P, Azarpira S, **Shojaei H**, Hashemzadeh M, Tortoli E. (2013). *Mycobacterium iranicum* infection in HIV-infected patient, Iran. *Emerging Infectious Diseases*. Oct;19(10):1696-7.
- Heidarieh P, Hashemi-Shahraki A, Khosravi AD, Zaker-Boustanabad S, **Shojaei H**, Feizabadi MM. (2013) *Mycobacterium arupense* infection in HIV-infected patients from Iran. *International Journal of STD & AIDS* 24.6: 485-487.
- Pourahmad F, **Shojaei H**, Heidarieh P, Khosravi A, Hashemi A. (2012). Report of two cases of *Mycobacterium europaeum* from Iran. *Japanese Journal of Infectious Diseases*. 65.6 (2012): 539-541.
- **Shojaei H**, et al. (2012) . Chronic Pulmonary Disease Due to *Mycobacterium monacense* Infection: The First Case from Iran. *Annals of Laboratory Medicine*. Jan;32(1):87-90.
- **Shojaei H**, et al (2012). Genetic diversity of Iranian clinical isolates of *Mycobacterium tuberculosis*. *New Microbiologica*. 35, 61-65.
- **Shojaei H**, Hashemi A, Heidarieh P, Pourahmad F, Daei Naser DN. (2012). Molecular Identification of Rare Clinical Mycobacteria by Application of 16S-23S Spacer Region Sequencing. *Iranian Journal of Basic Medical Sciences*, 15(1), 661-8.

- Nikbin, V. S., Alikhani, M. Y., **Shojaei, H.**, Mousavi, S. F., Salmanzadeh-Ahrabi, S., & Aslani, M. M. (2012) Ribotyping of EPEC isolates from diarrheal and asymptomatic patients in Iran." *Gastroenterology and Hepatology from Bed to Bench* 5.2: 94.
- **Shojaei H,** et al (2011). Molecular microbiological investigation of Mycobacterium bovis BCG post-vaccination infection in Iranian patients. *International Journal of Tuberculosis and Lung Diseases*. 2011 Nov;15(11):1497-504.
- **Shojaei H,** et al. (2011). Clinical isolation of *Nocardia cyriacigeorgica* from patients with various clinical manifestations, the first report from Iran. *Japanese Journal of Medical Mycology* .52(1):39-43.
- **Shojaei H,** et al (2011). Species identification of neglected nontuberculous mycobacterial infections in a developing country. *Japanese Journal of Infectious Diseases* 64. 2011.1-7.
- **Shojaei H,** et al. (2011). Chronic pelvic pain due to *Mycobacterium parascrofulaceum* in an Iranian patient: first report of isolation and molecular characterization from Asia. *Brazilian Journal of Infectious Diseases*. Apr;15(2):186-7.
- **Shojaei H,** et al.(2011). *Mycobacterium novocastrense*-associated pulmonary and wound infections. *Emerging Infectious Diseases*. Mar;17(3):550-1.
- **Shojaei H,** et al (2011). Pulmonary and extrapulmonary infection caused by *Mycobacterium conceptionense*: the first report from Iran. *Journal of Royal Society of Medicine Short Reports*. April 20, vol. 2 no. 4 31.
- **Shojaei H,** et al (2011). First report of isolation of *Mycobacterium elephantis* from bronchial lavage of a patient in Asia. *Journal of Royal Society of Medicine Short Reports* April 2011 2:26.
- **Shojaei H,** et al (2011). First report on isolation and molecular characterization of clinical *Mycobacterium setense* isolates in Asia. *Japanese Journal of Infectious Diseases*.64(3):234-6.

- **Shojaei H**, et al, (2010). Molecular Identification and Conventional Susceptibility Testing of Iranian Clinical *Mycobacterium fortuitum* Isolates. *Iranian Journal of Basic Medical Sciences*, Vol, No: 13; 3:210-15.
- Khashei R, **Shojaei H**, et al. (2009). Genetic Diversity and Drug Resistance of Helicobacter Pylori Strains in Isfahan, Iran. *Iranian Journal of Basic Medical Sciences*. Vol. 11, No. 3, 174-182.
- Feyzabadi M.M, Bahreh Mand A.R., Heydari P., **Shojaei H** (2008). Using multilocus enzyme electrophoresis to study the heterogeneity of clinical isolates of *Mycobacterium kansasii*. *Iranian Journal of Medical Microbiology*. 1(4):1-11.
- **Shojaei H** et al (2006). Efficacy of Simple Handwashing in Reduction of Microbial Hand Contamination of Iranian Food Handlers. *Food Research International*. 39 (5). 525-529.
- **Shojaei H** et al.(2006). Surveillance of clean surgical procedures: An indicator to establish a baseline of a hospital infection problem in a developing country, Iran. *Indian Journal of Surgery* 2006;68:89-92.
- Magee, J. G.; **Shojaei, H**.; Goodfellow, M.; Wheeler, J.; Seiders, P.; Barrett, A.; Freeman, R. (2002). *Mycobacterium malmoense*: Taxonomy and pathogenicity. Abstracts of the General Meeting of the American Society for Microbiology, Vol: 102 Pages: 486.
- **Shojaei, H**. et al (2000). *Mycobacterium elephantis* sp.nov . a rapidly growing Mycobacterium. *International Journal of Systematic Bacteriology*.50.1817-19.
- Lai, S; **Shojaei, H**.; Manchester, N, L. (2000). The differentiation of *Carnobacterium divdorgens* using the random amplification of polymorphic DNA polymerase chain reaction technique. *Letter in Applied Microbiology*, 30: 1-6.
- **Shojaei, H**.(1999) Molecular analysis of *M. avium -intercellular* complex. *Iranian Biomedical Journal*.3&4.63-70.
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- **Shojaei, H.** et al (1997), *Mycobacterium novocastrense* sp. nov, a rapidly-growing photochromogenic *Mycobacterium*. *International Journal of Systematic Bacteriology* 47: 1205-1207.

Books (Main author)

- **Guideline for Tuberculosis Conventional & Molecular Diagnosis. (2011).** ISBN: 978-964-524-274-7
- **An introduction to food poisoning. (2004)** ISBN : 964-94799-1-0.2004.
- **An introduction to Conception, Epidemiology and Control of Nosocomial Infection. 2004.** ISBN: 964-94799-0-2
- **Health Systems Research. The lessons should be learnt. (2004).** 964-94799-4-5-
- **Health Systems Research. A data bank. (e-book).2004.**

References

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