

Setareh Agha Kuchak Afshari
CV (Curriculum Vitae)

➤ **Personal Information**

- **First Name:** Setareh
- **Last Name:** Agha Kuchak Afshari
- **Date of Birth:** 30/03/1985
- **Place of birth:** Tehran, Iran
- **Nationality:** Iranian
- **Marital Status:** Married
- **Address:** Department of Medical Mycology and Parasitology, Kerman University of Medical Sciences, Kerman, Iran.
- **E-mail:** afshari_setareh@yahoo.com, s.afshari@kmu.ac.ir
- **Present Status:** Assistant professor; Ph.D.



➤ **Educational Records:**

- ❖ **03/2013- 12/2017:** Ph.D. Medical Mycology, Tehran University of Medical Sciences, Department of Medical Mycology and Parasitology.
- ❖ **09/2010- 03/2012:** MSc. Medical Mycology, Mazandaran University of Medical Sciences, Department of Medical Mycology and Parasitology.

➤ **Awards and Honors:**

- **2013** Ranked 2 in nationwide entrance exam for Doctorate degree in Medical Mycology
- Top graduate student award from Mazandaran University of Medical Sciences

➤ **Research articles:**

- Hajhosseini M, Sharifi I, Bamorovat M, Karamoozian A, Amanizadeh A, **Agha Kuchak Afshari S***. Monitoring of airborne fungi during the second wave of COVID-19 in selected wards of the referral university hospital in southeastern Iran. *Environmental Monitoring and Assessment*. 2023 Sep;195(9):1132.
- Bamorovat M, Sharifi I, **Agha Kuchak Afshari S**, Ghasemi Nejad Almani P. Mutual Role of Patients and the Healthcare System in the Control of Cutaneous Leishmaniasis. *Transboundary and Emerging Diseases*. 2023 Aug 26;2023.
- Derakhshani A, Sharifi I, Salarkia E, Keyhani A, **Agha Kuchak Afshari S**, Iranmanesh B, Lashkarizadeh M, Nejad Biglari H, Lari Najafi M, Bamorovat M. Antileishmanial potentials of azacitidine and along with meglumine antimoniate on *Leishmania major*: In silico prediction and in vitro analysis. *Plos one*. 2023 Sep 8;18(9): e0291321.
- Zarei F, Mahmoudi S, Amanizadeh A, **Agha Kuchak Afshari S***. First report of onychomycosis caused by *Phoma glomerata* (*Didymella glomerata*): case report and literature review. *Reviews and Research in Medical Microbiology*. 2023 Jan 1;34(1):1-5.
- Sharifi I, Khosravi A, Aflatoonian MR, Salarkia E, Bamorovat M, Karamoozian A, Moghadam MN, Sharifi F, **Agha Kuchak Afshari S**, Afshari SA, Gharachorloo F. Cutaneous leishmaniasis situation analysis in the Islamic Republic of Iran in preparation for an elimination plan. *Frontiers in Public Health*. 2023 Apr 28; 11:1091709.
- Bamorovat M, Sharifi I, **Agha Kuchak Afshari S**, Karamoozian A, Tahmouresi A, Heshmatkhah A, Salarkia E, Khosravi A, Parizi MH, Barghi M. Poor adherence is a major barrier to the proper treatment of cutaneous leishmaniasis: A case-control field assessment in Iran. *International Journal for Parasitology: Drugs and Drug Resistance*. 2023 Apr 1; 21:21-7.
- Khaksar Baniasadi A, Ayatollahi Mosavi SA, Sharifi I, Bamorovat M, Salari S, Ahmadi A, Amanizadeh A, **Agha Kuchak Afshari S***. Vulvovaginal candidiasis in Iranian women: Molecular identification and antifungal susceptibility pattern. *Journal of Obstetrics and Gynaecology Research*. 2022 Dec;48(12):3292-303.
- Amanizadeh A, **Agha Kuchak Afshari S***, Bonjar GH, Mosavi SA*. Potential of *Streptomyces* Strains Isolated from Soils as Biocontrol Agents Against *Fusarium* Species. *Anti-Infective Agents*. 2022 Oct 1;20(5):101-5.

- Faridi A, Amanizadeh A, Mosavi SA, Salari S, Kalantar-Neyestanaki D, Sharifynia S, **Agha Kuchak Afshari S***. Molecular discrimination and antifungal susceptibility profile of cryptic *Candida albicans* complex species isolated from patients in Iran. *Iranian journal of microbiology*. 2022 Jun;14(3):423.
- Bakhshi M, Salari S, Almani PG, **Agha Kuchak Afshari S**. Evaluation of the antifungal activity of *Lactobacillus reuteri* against *Candida* species. *Gene Reports*. 2021 Dec 1; 25:101369.
- Ghaioomy R, Tabatabaeifar F, Mozafarinia K, Mianroodi AA, Isaei E, Morones-Ramírez JR, **Agha Kuchak Afshari S***, Kalantar-Neyestanaki D*. Biofilm formation and molecular analysis of intercellular adhesion gene cluster (icaABCD) among *Staphylococcus aureus* strains isolated from children with adenoiditis. *Iranian Journal of Microbiology*. 2021 Aug;13(4):458.
- Ziasistani M, Dabiri S, Abadi MF, **Agha Kuchak Afshari S**, Ghaioomy R, Morones-Ramírez JR, Tabatabaeifar F, Kalantar-Neyestanaki D. Determination of antibiotic resistance genes, immune evasion cluster and agr types among *Staphylococcus aureus* strains isolated from children with adenoiditis. *Gene Reports*. 2020 Dec 1;21:100875.
- Bandalizadeh Z, Shokohi T, Badali H, Abastabar M, Babamahmoudi F, Davoodi L, Mardani M, Javanian M, Cheraghmakani H, Sepidgar AA, Badiie P, **Agha Kuchak Afshari S**, et al. Molecular epidemiology and antifungal susceptibility profiles of clinical *Cryptococcus neoformans*/*Cryptococcus gattii* species complex. *Journal of Medical Microbiology*. 2020 Jan;69(1):72.
- Safaei P, Rezaie S, Alimohammadi M, **Agha Kuchak Afshari S**, Mehdizadeh M, Molaee Aghaee E. Qualitative PCR-based detection of genetically modified soy and maize products in Iran. *International Journal of Food Properties*. 2020 Jan 1;23(1):459-69.
- Khodavaisy S, Badali H, Modiri M, Mahmoudi S, **Agha Kuchak Afshari S**, Abtahi H, Aala F, Lotfali E, Salehi M, Ahangarkani F, Meis JF. Comparative in vitro activities of seven antifungal drugs against a national collection of clinical *Candida parapsilosis* complex. *Journal de Mycologie Médicale*. 2020 Apr 4:100968.
- Safaei P, Aghaee EM, Khaniki GJ, **Agha Kuchak Afshari S**, Rezaie S. A simple and accurate PCR method for detection of genetically modified rice. *Journal of Environmental Health Science and Engineering*. 2019 Dec 1;17(2):847-51.
- Hamzehee S, Neyestanaki DK, **Agha Kuchak Afshari S**, Mosavi SA. Molecular identification of *Candida* species, assessment of the antifungal susceptibility and the genetic relationship of *Candida albicans* isolated from immunocompromised patients in Kerman, Iran. *Gene Reports*. 2019 Aug 30:100484.

- Gharehbolagh SA, Mahmoudi S, Asgari Y, Rahimi H, **Agha Kuchak Afshari S**, Noorbakhsh F, Rezaie S. Thioredoxin is a potential pathogenesis attribute of *Malassezia globosa* and *Malassezia sympodialis* in pityriasis versicolor. *Gene Reports*. 2019 Dec 1;17:100468.
- Mahmoudi S, **Agha Kuchak Afshari S**, Gharehbolagh SA, Mirhendi H, Makimura K. Methods for identification of *Candida auris*, the yeast of global public health concern: A review. *Journal de mycologie medicale*. 2019 Apr 26.
- Aghaei Gharehbolagh S, Kordbacheh P, Hashemi SJ, Daie Ghazvini R, Asgari Y, **Agha Kuchak Afshari S**, Seyedmousavi S, Rezaie S. MGL _3741 gene contributes to pathogenicity of *Malassezia globosa* in pityriasis versicolor. *Mycoses*. 2018 Dec;61(12):938-44.
- **S.Agha Kuchak Afshari**, H.Rahimi, S.J.Hashemi, R.Daie Ghazvini, H.Badali, S.Aghaei Gharehbolagh, S.Rezaie. Evaluation of PCR- Reverse Line Blot Hybridization assay for simultaneous identification of medically important saprophytic Fungi. *Journal de mycologie medicale*. 2018 Mar 1;28(1):173-9.
- Gharehbolagh SA, Nasimi M, **Agha Kuchak Afshari S**, Ghasemi Z, Rezaie S. First case of superficial infection due to *Naganishia albida* (formerly *Cryptococcus albidus*) in Iran: A review of the literature. *Current medical mycology*. 2017 Jun;3(2):33.
- Aala F, Badali H, Fesharaki SH, Boroumand M, Anvari MS, Davari H, , **Agha Kuchak Afshari S**, Khodavaisy S. Coexistence of aspergilloma and pulmonary hydatid cyst in an immunocompetent individual. *Journal de mycologie medicale*. 2017 Sep 1;27(3):396-9.
- Aghaei H, Kordbacheh P, Kachuei R, Mahmoudi Sh, **Agha Kuchak Afshari S**, Safara M, Zaini F. In vitro antifungal susceptibility testing of clinical and environmental *Fusarium* isolates in Iran. *Iranian Journal of Clinical Infectious Diseases*. January 2017.
- Badali H, Rezaie S, Meis JF, **Agha Kuchak Afshari S**, Modiri M, Hagen F, Moazeni M, Mohammadi R, Khodavaisy S. Microsatellite genotyping of clinical *Candida parapsilosis* isolates. *Current medical mycology*. 2017 Dec;3(4):15.
- Kamali Sarwestani Z, Dasdar A, **Agha Kuchak Afshari S**, Gerami Shoar M, Hashemi SJ, Pakzad R, et al. Evaluation of fungal air contamination in selected wards of two tertiary hospitals in Tehran, Iran. *Tehran University Medical Journal TUMS Publications*. 2017; 75(4):299-306, (In Persian).
- Khodavaisy S, Mahmoudi S, **Agha Kuchak Afshari S**, Salehi Z, kord M, Badali H. Molecular Techniques in Detection of Triazole-resistance Gene Mutations in Common Pathogenic Fungi. *Journal of Mazandaran University of Medical Sciences*. 2017;27(148):187-202, (In Persian).

- Salehi Z, **Agha Kuchak Afshari S**, Rezaie S, Mahmoodpour S, Khodavaissy S. A Review of Antimicrobial activity of flavonoids. *Clinical Excellence*. 2017;6(2):12-21, (In Persian).
- Sasani E, Khodavaissy S, **Agha Kuchak Afshari S**, Darabian S, Aala F, Rezaie S. Pseudohyphae formation in *Candida glabrata* due to CO₂ exposure. *Current Medical Mycology*. 2016;2(4):49.
- **Agha Kuchak Afshari S**, Mohammad Kord , Payam Tabarsi , Afshin Moniri, Majid Marjani , Zahra Salehi , Mihan Pourabdollah Toutkaboni, Abdolreza Mohamadnia , Somayeh Sharifynia*. A Case Report of Cryptococcal Meningitis Infection in an immunodeficient Patient and an Overview of Cryptococcosis in Iran. *Nafas*, Vol. 3, No. 1, Spring 2016, Pages: 48-54, (In Persian).
- **S. Agha Kuchak Afshari**, T. Shokohi, R. Aghili, H. Badali. Epidemiology and molecular characterization of *Cryptococcus neoformans* isolated from pigeon excreta in Mazandaran province, northern Iran. *Journal de mycologie medicale*. 2012 Jun 1;22(2):160-6.
- Nabili M, **Agha Kuchak Afshari S**. The role of mycotoxins in cancer. Physician & Laboratory. *Bimonthly Journal in Medical & Laboratory Sciences*. No 42; Feb-May 2010, page 20-24, (In Persian).

➤ **Congress Presentations:**

- **S. Agha Kuchak Afshari**, H. Dior, Z. Bijani, S. A. Ayatollahi Mosavi, A. Khaksar Baniasadi. Molecular discrimination of *Candida* species causing primary and recurrent vulvovaginal candidiasis in Kerman, southeast Iran. The 14th International Congress of Medical Lab. and Clinic, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2-4 Feb 2023. (Poster Presentation).
- **S. Agha Kuchak Afshari**, Z. Bijani, H.dior, S.A. Ayatollahi Mosavi. Antifungal susceptibility pattern of *Candida* species causing primary and recurrent vulvovaginal candidiasis in Kerman, southeast Iran. The 14th International Congress of Medical Lab. and Clinic, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2-4 Feb 2023. (Poster Presentation).
- **S. Agha Kuchak Afshari**, M. Bamorovat, S. Salari, A. Amanizadeh. Molecular discrimination of cryptic *Candida albicans* species complex isolated from patients in southeastern Iran. 23rd Congress of Microbiology, Tehran, Iran. August 30 to September 1st 2022, (Poster Presentation).
- **S. Agha Kuchak Afshari**, A. Khaksar Baniasadi, M. Bamorovat, S. Salari. Antifungal Resistance in Clinical Isolates of *Candida albicans* species complex in Southeastern Iran.

23rd Congress of Microbiology, Tehran, Iran. August 30 to September 1st, 2022. (Poster Presentation).

- **Setareh Agha Kuchak Afshari**, Sanaz Aghaei Gharehbolagh, Seyed Jamal Hashemi, Roshanak Daie Ghazvini, Sassan Rezaie. Simultaneous Identification of Medically Important Molds Using PCR- Reverse Line Blot Hybridization Assay. 5th Iranian Congress in Medical Mycology, Tehran, Iran. (Oral Presentation)
- Zainab Bandlizadaeh, Tahereh shokohi, Hamid Badali, Masoud Mardani, Sadegh Khodavaais, **Setareh Agha Kuchak Afshari**, Kazem Ahmadikia. Genotyping and antifungal susceptibility profile of clinical *Cryptococcus neoformans* species complex. 5th Iranian Congress in Medical Mycology, Tehran, Iran. (Oral Presentation)
- Khodavaaisy, Sh. Hashemi Fesharaki, H. Badali, M. Boroumand, M. Sotoudeh Anvari, M. Gramishoar, Z. Abtahian, **S. Agha Kuchak Afshari**, E. Sasani. Coexistence of aspergilloma and pulmonary hydatid cyst 1st IFRC International Conference on Clinical Mycology: *Aspergillus* and *Aspergillosis*. November 8-10, 2016. Sari, Mazandaran, Iran. (Poster Presentation).
- **S. Agha Kuchak Afshari**, T. Shokohi, SR. Aghili, H. Badali. Mating type and variety identification of *Cryptococcus neoformans* isolates. 2nd Iranian Congress on Medical Mycology. 12-14 February 2013, Ahwaz, Iran. (Poster Presentation).
- T. Shokohi, **S. Agha Kuchak Afshari**, R. Aghili, H. Badali. Epidemiology and molecular characterization of *Cryptococcus neoformans* isolated from pigeon excreta in Mazandaran province, northern Iran. 18th Congress of International Society for Human and Animal Mycology (ISHAM). 11-15 June 2012, Berlin, Germany. *Mycoses* 55 (Suppl. 4). (Poster Presentation).
- **S. Agha Kuchak Afshari**, T. Shokohi. Review of distribution of *Cryptococcus neoformans* in Iran. Annual Student _ Research Congerece of Mazandaran University of Medical Sience, Sari , Iran. 7-9 February 2011. (Poster Presentation).
- **S. Agha Kuchak Afshari**, T. Shokohi, R. Aghili, S. Mayahi. Isolation of *cryptococcus neoformans* from pigeon excreta in Mazandaran province, Iran. 1st International Congress of Iranian Medical Mycology, 3-5 may, 2011 Sari, Iran. (Poster Presentation).
- M. Nabili, **S. Agha Kuchak Afshari**. Laboratory Diagnosis of Invasive Candidiasis. Second seminar on enteric pathogens. 1-2 November, 2010. Sanandaj, Iran. (Poster Presentation).

➤ **Workshops & Conferences:**

- ✓ Microscopic diagnosis of superficial and cutaneous fungal diseases at the 3rd International &

- 8th National Congress on Quality Improvement in Clinical Laboratories, 2010.Tehran, Iran.
- ✓ Research, 2009, Mazandaran University of Medical Science, Sari, Iran.
- ✓ Primer designing, Scientific Research Center of Tehran University of Medical Sciences, 2014.Tehran, Iran.
- ✓ Endnote, Iranian Society of Medical Mycology, 2016. Tehran, Iran.
- ✓ Attended at the 3rd International & 8th National Congress on Quality Improvement in Clinical Laboratories, 20-23 May 2010.Tehran, Iran.
- ✓ Attended at the 1st International Congress of Iranian Medical Mycology, 3-5 may, 2011 Sari, Iran.
- ✓ Attended at the 2nd International and 4th Iranian Congress in Medical Mycology, from Bench to Bed, 18-20 Nov 2015. Shiraz, Iran.
- ✓ Attended at the 8th International Congress of Laboratory & Clinic and 1th National Congress of Basic Medical Sciences and the Knowledge-based production. 6-8 Feb 2016. Tehran, Iran.
- ✓ Attended at the 4nd Congress on Novel & Innovative Laboratory Technologies, 2016.
- ✓ Attended at the 5th Iranian Congress of Medical Mycology. 2019. Tehran, Iran.
- ✓ Attended at the 11th International Congress of Laboratory & Clinic. 16-18 Jan 2019. Tehran, Iran.
- ✓ Attended at the 14th International Congress of Medical Lab. and Clinic, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2-4 Feb 2023.

➤ Extracurricular activities:

- Participated in organizing a conference as an Executive Committee member.1st International Congress of Iranian Medical Mycology, 3-5 May, 2011 Sari, Iran.
- Participated in organizing a conference as an Executive Committee member. 8th International Congress of Laboratory & Clinic and 1th National Congress of Basic Medical Sciences and the Knowledge-based production. 6-8 Feb 2016. Tehran, Iran.
- Selected as Referee Committee in 8th International Congress of Laboratory and Clinic, and 1th National Congress of Basic Medical Sciences and the Knowledge-based production. 6-8 Feb 2016. Tehran, Iran.
- Participated in organizing a conference as an Executive Committee member. The 5th Iranian Congress of Medical Mycology. 2019. Tehran, Iran.
- Participated as a Referee Committee Member of Medical Mycology abstracts in 11th International Congress of Laboratory & Clinic. 16-18 Jan 2019. Tehran, Iran.
- Participated as an Executive Committee member at the 20th International Congress of Microbiology, Kerman, Iran (27-29 August 2019).
- Participated as referee to review the submitted abstracts at the 20th International Congress of Microbiology, Kerman, Iran (27-29 August 2019).

➤ **Skills:**

- ✓ Microsoft Office (Excel, PowerPoint, Word)
- ✓ Reference manager software (EndNote)
- ✓ Familiar with SPSS
- ✓ Working knowledge of major molecular biology primary and secondary databases.
- ✓ Primer or probe designing programs (Gene Runner, primer3, and etc)
- ✓ Sequence alignment techniques (single and multiple) and programs (BLAST, Clustal, MEGA).
- ✓ Familiar with some software's; Chromas, Jalview, Geneious
- ✓ PCR-based methods; conventional PCR, RFLP, PCR-based reverse line blot hybridization assays, etc.
- ✓ Molecular biology techniques such as RNA/DNA extraction, DNA quantification, and Gel-Electrophoresis.
- ✓ Primer and probe design.
- ✓ Antifungal susceptibility test.

➤ **Research Interests:**

- Nosocomial Infections.
- Molecular Epidemiology of Fungal Infection.
- New Molecular Diagnostic Methods in Mycology.
- Antifungal Susceptibility and Drug Resistance Mechanisms.

