



Hossein Zarrinfar, Ph.D.,

Position: Associate professor of Medical Mycology,
Department of Medical Mycology and Parasitology,
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Mashhad University of Medical Sciences

Date of birth: 7/1/1978

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Education

Feb 2007 – Aug **Tehran University of Medical Sciences**

2012 **Ph.D.**, Department of Medical Parasitology and Mycology, School of Public Health; National Institute of Health Research, Tehran University of Medical Sciences, Tehran, Iran

Thesis

Research Experience

Feb 2007 – Aug **Conventional techniques for diagnosis of fungal infections, Aspergillosis, PCR, Nested PCR, Real time PCR**

2012 Department of Medical Parasitology and Mycology, School of Public Health; National Institute of Health Research, Tehran University of Medical Sciences, Tehran, Iran

Feb 2011 – Aug **Aspergillosis, PCR, Nested PCR, Real time PCR**

2011 Department of Molecular Biology and Gene Diagnosis, Teikyo University Institute of Medical mycology, Tokyo, Japan

Sep 2001 – Sep 2004

Candidiasis, Antifungal susceptibility testing

Tarbiat Modares University, Department of Medical Mycology

M.Sc., Medical Mycology

Tehran, Iran

Skills & Activities

Skills Nested PCR, Cloning, Diagnostic Methods, Aspergillosis, Candida albicans, Candidiasis, Pulmonary Aspergillosis, Real-time PCR, Antifungal, Mycology, Molecular Biology, Yeasts, Diagnostic molecular methods

Languages English; Persian

Scientific ISHAM

Memberships ISMM; ESCMID

Interests Aspergillosis; Candidiasis; Antifungal susceptibility testing; Diagnostic molecular methods

Journal Publications

1. Molecular Epidemiology and Antifungal Susceptibility Profile in *Nakaseomyces glabrata* Species Complex: A 5-Year Countrywide Study. Journal of Clinical Laboratory Analysis. 2024; In Press.
2. Inappropriate treatment of pulmonary aspergillosis caused by *Aspergillus flavus* in susceptible pediatric patients: A case series in the subtropical region of the MiddleEast. Neginsadat hosseinikargar, **Hossein Zarrinfar**✉, Seyed Javad Seyedi, Seyedeh Sabereh Mojtahedi. Journal of Medical Case Reports. 2024; In Press.
3. Neginsadat Hosseinikargar, **Hossein Zarrinfar**✉, Seyed Javad Seyedi, Hassan Mehrad-Majd, Mohammad Javad Najafzadeh. The prevalence, predisposing factors, and outcomes of *Pneumocystis jirovecii* pneumonia among pediatric inpatients, Northeastern Iran. Journal of Pediatric Infectious Diseases. 2024; In Press.
4. Batoul Jannati, Arash Pourdad, Ali Izadjoo, **Hossein Zarrinfar**✉, Mohammad Javad Najafzadeh, Abdolmajid Fata. The Prevalence of Non-*albicans Candida* and *Candida* Mixed-species in Vulvovaginal Candidiasis in Northeast Iran. Clin. Exp. Obstet. Gynecol. 2024; 51(3): 77.
5. Mohammad Javad Najafzadeh, Tahmineh Shaban, **Hossein Zarrinfar**, Alireza Sedaghat, Neginsadat Hosseinikargar, Fariba Berenji, Mahsa Jalali, Michaela Lackner, Jasper Elvin James, Macit Ilkit, Cornelia Lass-Flörl. COVID-19 associated candidemia: From a shift in fungal epidemiology to a rise in azole drug resistance. Medical Mycology. 2024; 62(4): myae031.
6. Seyedeh Sabereh Mojtahedi, **Hossein Zarrinfar**✉, Mehdi Bakhshaei. Hematological Indices in COVID-19 Patients with Rhinosinusitis Mucormycosis. Iranian Journal of Otorhinolaryngology. 2024; 36(2): 399-405.

7. Ardalan Ghiaee Shamloo, Mohammad Hossein Yadegari, Shahla Roudbar Mohammadi, Mahmoodreza Jaafari, **Hossein Zarrinfar**. Designing and Synthesis of an *Anti-Candida parapsilosis* Thymoquinone Lipid Formulation. Jundishapur Journal of Microbiology. 2023; 16 (10); e141934.
8. Mohammad Javad Javid-Naderi, **Hossein Zarrinfar**✉, Tahany Al-Shemary. *In silico* analysis and molecular docking of curcumin analogs and antifungal compounds against critical proteins of *Aspergillus* species: a comparative investigation. Journal of Population Therapeutics and Clinical Pharmacology. 2023; 30 (19): 1345 – 1365.
9. Bahar Banasaz, Sara Saadat, Davood Kalantar-Neyestanaki, **Hossein Zarrinfar**, Fahimeh Shakeri, Mahmood Barani, Reza Mohammadinejad, Firoozeh Mirzaee, Masumeh Ghazanfarpour. The Association Between *Helicobacter pylori* Infection With Different Types of Colon Cancer and Children's Diseases: An Overview of Meta-analyses. *Crescent Journal of Medical and Biological Sciences*. 2023; 10(4): 153–160.
10. Shaghayegh Moghadam, Behnam Azari, Roghayeh Rashidi, Mahdi Hosseini Bafghi, Hassan Rakhshandeh, Selman Mohammed Selman and **Hossein Zarrinfar**✉. Antifungal activity of three different varieties of *Capsicum annuum* against clinical isolates of *Candida* species. *Tropical Diseases, Travel Medicine and Vaccines*. 2023; 9: 1-9.
11. Mohammad Javad Javid-Naderi, Zahra Sabouri, Amin Jalili, **Hossein Zarrinfar**, Saeed Samarghandian, Majid Darroudi. Green synthesis of copper oxide nanoparticles using okra (*Abelmoschus esculentus*) fruit extract and assessment of their cytotoxicity and photocatalytic applications. *Environmental Technology & Innovation*. 2023; 32: 103300.

12. Robabeh Dehghani, Shirin Mohammadi, **Hossein Zarrinfar**✉, Lida Jarahi, Mohammad Javad Najafzadeh, Husam Salah. The Emergence Of Decreased Activity Of Amphotericin B And Voriconazole Against Clinical Isolates Of *Aspergillus* Species: A Subtropical Region Of The Middle East. *Journal of Population Therapeutics and Clinical Pharmacology*. 2023; 30(17):146-154.
13. Shaghayegh Moghadam, Behnam Azari, Majid Darroudi, **Hossein Zarrinfar**✉, Zahra Sabouri, Selman Mohammed Selman, Shirin Mohammadi. Comparison of antifungal activities of zinc, copper, cerium oxide, silver, gold, and selenium nanoparticles against clinical isolates of *Aspergillus*. *Nanomedicine Journal*. 2023; 10(3):227-233.
14. Mohsen Nosratabadi, Leila Faeli, Iman Haghani, Rasoul Mohammadi, Sadegh Khodavaisy, Reza Kachuei, Farzad Katiraei, Seyed Reza Aghili, Tahereh Shokohi, Mohammad Taghi Hedayati, Mehdi Nazeri, Mohammad Javan-Nikkhah, **Hossein Zarrinfar**, Javad Javidnia, Mohammad-Javad Najafzadeh, Maryam Salimi, Abdullah M.S. Al Hatmi, Hamid Badali, Mahdi Abastabar. In vitro antifungal susceptibility profile of Iranian *Fusarium* isolates: Emphasising on the potent inhibitory effect of efinaconazole compared to other drugs. *Mycoses*. 2023; 66: 258-275.
15. Mahsa Vaezi, Sahar Ravanshad, Mina Akbari Rad, **Hossein Zarrinfar**, Mona Kabiri. The effect of synbiotic adjunct therapy on clinical and paraclinical outcomes in hospitalized COVID-19 patients: A randomized placebo-controlled trial. *J Med Virol*. 2023; 95:e28463.
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- on Tinea Capitis: Antifungal Susceptibility Profile, Epidemiological Characteristics, and Report of Two Strains with a Novel Mutation in SQLE Gene with Homology Modeling. *Mycopathologia*. 2023; 188:449–460.
18. Hamid Sadeghian, **Hossein Zarrinfar**, Hadi Safdari, Mohammad Hossein Ahmadi, Maedeh Tahan, Mahdi Hosseini Bafghi. Enhancing the Antifungal Effect of Biosynthesized Selenium Nanoparticles Using *Aspergillus Fumigatus*. *Journal of Knowledge & Health in Basic Medical Sciences*. 2022; 17(3): 40-51.
19. Reza Saberi, Maryam Nakhaei, Mahdi Fakhar, **Hossein Zarrinfar**, Ali Sharifpour, Hajar Ziaei, Hezarjaribi. Molecular identification and genotyping of *Acanthamoeba* spp., in bronchoalveolar lavage fluid from immunocompetent patients with chronic respiratory disorders (CRD). *Parasitology Research*. 2022; 121:3013–3017.
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27. Seyedeh Sabereh Mojtahedi, **Hossein Zarrinfar**✉. Evaluation of Hematological Parameters in Coronavirus Disease 2019 Patients with *Aspergillus* Rhinosinusitis, Northeastern Iran. *Journal of Patient Safety and Quality Improvement*. 2022; 10(1): 35-40.

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29. Ali Sharifpour, **Hossein Zarrinfar**, Mahdi Fakhar, Zakaria Zakariaei, Mostafa Soleymani, Elham Sadat Banimostafavi, Maryam Nakhaei. First report of *Lophomonas* infection in a patient with AML-2 from Qeshm Island, Persian Gulf, southern Iran. Respiriology Case Reports. 2022. 10(2): e0906.
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31. **Hossein Zarrinfar**, Zahra Kord, Abdolmajid Fata. High incidence of azole resistance among *Candida albicans* and *C. glabrata* isolates in Northeastern Iran. Current Medical Mycology. 2021, 7(3): 18-21.
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39. Adéla Čmoková, Ali Rezaei-Matehkolaei, Ivana Kuklová, Miroslav Kolařík, Forough Shamsizadeh, Saham Ansari, Maral Gharaghani, Viera Miňovská, Mohammad Javad Najafzadeh, Sadegh Nouripour-Sisakht, Takashi Yaguchi, Kamiar Zomorodian, **Hossein Zarrinfar**, Vit Hubka. Discovery of New Trichophyton Members, *T. persicum* and *T. spiraliforme* spp. nov., as a Cause of Highly Inflammatory Tinea Cases in Iran and Czechia. Microbiology Spectrum. 2021; 9(2): e00284-21.

40. Elham Kashefi, Seyed Javad Seyedi, Kamiar Zomorodian, Zahra Zare Shahrabadi, **Hossein Zarrinfar**✉. Successful treatment of pulmonary aspergillosis due to *Aspergillus fumigatus* in a child affected by systemic lupus erythematosus: A case report from Northeastern Iran. *Clinical Case Reports*. 2021;9(5):1–9. e04248.
41. Forough Shamsizadeh, Saham Ansari, Ali Zarei Mahmoudabadi, Vít Hubka, Adéla Čmoková, Jacques Guillot, Abdollah Rafiei, Kamiar Zomorodian, Sadegh Nouripour-Sisakht, Kambiz Diba, Tooba Mohammadi, **Hossein Zarrinfar**, Ali Rezaei-Matehkolaei. In vitro antifungal susceptibility patterns of *Trichophyton benhamiae* complex isolates from diverse origin. *Mycoses*. 2021; 64:1378–1386.
42. Simin Taghipour, Mahdi Abastabar, Fahimeh Piri, Elham Aboualigalehdari, Mohammad Reza Jabbari, **Hossein Zarrinfar**, Sadegh Nouripour-Sisakht, Rasoul Mohammadi, Bahram Ahmadi, Saham Ansari, Farzad Katiraei, Farhad Niknejad, Mojtaba Didehdar, Mehdi Nazeri, Koichi Makimura and Ali Rezaei-Matehkolaei. Diversity of Geophilic Dermatophytes Species in the Soils of Iran; The Significant Preponderance of *Nannizzia fulva*. *J. Fungi* 2021, 7, 345.
43. **Hossein Zarrinfar**, Mahsa Behnam, Mahdi Hatamipour, and Amirhossein Sahebkar. Antifungal Activities of Curcuminoids and Difluorinated Curcumin Against Clinical Dermatophyte Isolates. *Advances in Experimental Medicine and Biology*. 2021; 1308:101-107.
44. Amir Arastehfar, Tahmineh Shaban, **Hossein Zarrinfar**, Maryam Roudbary, Mona Ghazanfari, Mohammad-Taghi Hedayati, Alireza Sedaghat, Macit Ilkit, Mohammad Javad Najafzadeh, and David S. Perlin. Candidemia among Iranian Patients with Severe COVID-19 Admitted to ICUs. *J. Fungi* 2021, 7(4), 280.
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50. Amir Arastehfar, Farnaz Daneshnia, Mohammad Javad Najafzadeh, Ferry Hagen, Shahram Mahmoudi, Mohammadreza Salehi, **Hossein Zarrinfar**, Zahra Namvar, Zahra Zare Shahrabadi, Sadegh Khodavaisy, Kamiar Zomorodian, Bart Theelen¹, Weihua Pan, Markus Kostzewa, Teun Boekhout, Cornelia Lass-Flörl. Evaluation of molecular epidemiology, clinical characteristics, antifungal susceptibility profiles, and molecular mechanisms of antifungal resistance of Iranian *Candida parapsilosis* species complex blood isolates. *Frontiers in Cellular and Infection Microbiology*. 2020; 10:206.

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53. Monireh Kazemi, Alireza Akbari, **Hossein Zarrinfar**, Saman Soleimanpour, Zahra Sabouri, Mehrdad Khatami, Majid Darroudi. Evaluation of Antifungal and Photocatalytic Activities of Gelatin-Stabilized Selenium Oxide Nanoparticles. *Journal of Inorganic and Organometallic Polymers and Materials*. 2020; 30:3036-3044.
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