

## Personal Information

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## Educational Background

Degree	Institution	Field	Date
Ph.D.	University of Putra Malaysia, Malaysia	Molecular Biology/ Microbiology (3.97, out of 4)	2011
Post-Doctorate Fellow	University of Putra Malaysia, Malaysia	Molecular Biology/ Microbiology	2014

## Professional and Academic Scientific Experience

- **2020-Present:** Associate Professor, Department of Biology, Faculty of Science, Azad University, Gachsaran branch, Iran.
- **1999-2020:** Assistant Professor, Department of Biology, Faculty of Science, Azad University, Gachsaran branch, Iran.
- **2015-present:** Head of Department of Biology.
- **2014-2015:** Research Director of Islamic Azad University of Kohgiluyeh & Boyer-Ahmad.
- **2013-2014:** Post Doctoral Researcher, Unit of Biochemistry and Biomolecular sciences, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, University of Putra Malaysia.
- **2011-2013:** Member of Research Committee, Azad University, Gachsaran branch, Iran.

- **2007-2012:** Lab Researcher, Unit of Biochemistry and Biomolecular Sciences, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, University of Putra Malaysia.
- **2001-2002:** Head of Department of Paramedical Sciences, Faculty of Medicine, Azad University, Gachsaran branch, Iran.

### **Subjects Taught**

- Biotechnology (Medical, Molecular and Microbial) [M.Sc.and Ph.D.]
- Molecular Genetics [Ph.D.]
- Genetic Engineering [M.Sc.]
- Antibiotics and Molecular Mechanisms [M.Sc.]
- Biology (General, Cellular and Molecular) [Theoretical and practical] [B.Sc., M.Sc. and Ph.D.]
- Microbiology (General, Medical) [Theoretical and practical] [B.Sc., M.Sc. and Ph.D.]
- Mycology [Theoretical and practical] [M.Sc.]
- Medical Biochemistry [B.Sc., M.Sc. and Ph.D.]
- Immunology [B.Sc., M.Sc. and Ph.D.]
- Cellular Microbiology [Ph.D.]

### **Research Interest**

- Molecular investigation of the mechanisms of action of the new antifungal agents and some biological products with antimicrobial activity on pathogens.
- Molecular investigation of microbes in infectious diseases.
- Applications of -omics technologies in understanding host-pathogen interactions.
- Development and application of rapid molecular diagnostic techniques for microbial infections.
- Production of nanoparticles by microorganisms.

### **Research Projects**

- Study of the prevalence of herpes virus infections in patients with transient bone marrow suppression, Azad University, 2017.
- Study the relationship between TLR-4 polymorphism and BK polyomavirus infection in transplant patients, Azad University, 2017.
- Production of silver nanoparticles from *Candida albicans* and its antibacterial activity, Azad University, 2016.
- Evaluation of GBVC/HGV infection in patients with non-Hodgkin's lymphoma, Azad University, 2011.
- Epidemiologic study of candidiasis in Kohgiluyeh and Boyer Ahmad province Azad University, 2005.
- Antibacterial effect of some *Aceraceae* and *Cucurbitaceae* extracts against *Enterobacteriaceae* species, Azad University, 2005.

- Synthesis of 4-choloro- 2, 6-bis (2-hydroxy- $\alpha$ -toloyl) phenol from microwave radiation in solid phase and investigation of antibacterial effects, Azad University, 2002.
- *In vitro* and *in vivo* investigation of anticandidal effects of some edible plant extracts, Iran research of industrial and scientific organization, 1998.

## Publications

### Journal Articles

- Alizadeh, H., **Khodavandi, A.**, Alizadeh, F., Bahador, N. (2021). Molecular characteristics of carbapenem-resistant *Klebsiella pneumoniae* isolates producing blaVIM, blaNDM and blaIMP at clinical centers in Isfahan, Iran. *Jundishapur Journal of Microbiology*.
- Norouzi, N., Alizadeh, F., **Khodavandi, A.**, Jahangiri, M. (2021). Differential transcriptional response of *Candida albicans* biofilm genes to combined menthol with conventional antifungal agents. *Submitted*.
- Ghaderinia, P., Rostamizadeh, K., Shapouri, R., **Khodavandi, A.**, Mahdavi, M., (2021). Capsular K-antigen-PLGA nanoconjugate vaccine against *Klebsiella pneumoniae* K2O1 infection. *Journal of Advances in Medical and Biomedical Research*.
- Noshadi, S., **Khodavandi, A.** (2021). Expression analysis of drug-resistant gene (*blaOXA-51*) in carbapenemases producing *Acinetobacter baumannii* treated with imipenem/sulbactam combination. *Brazilian Journal of Pharmaceutical Sciences*.
- Hosseini, F., **Khodavandi, A.**, Alizadeh, F. (2021). Differential expression of *blaCTX-M-33* in extended spectrum  $\beta$ -lactamase-producing *Escherichia coli* treated with vancomycin/trimethoprim combination. *Brazilian Journal of Pharmaceutical Sciences*.
- Alizadeh, F., **Khodavandi, A.** (2020). Systematic review and meta-analysis of the efficacy of nanoscale materials against coronaviruses-Possible potential antiviral agents for SARS-CoV-2. *IEEE Transactions on NanoBioscience*, 19(3):485-497.
- Hosseini, SMK., Alizadeh, F., Nouripour-Sisakht, S., **Khodavandi, A.** (2020). Synergistic interaction of fluconazole/sodium bicarbonate on inhibition of *Candida glabrata* phospholipase gene. *Brazilian Journal of Pharmaceutical Sciences*.
- **Khodavandi, A.**, Alizadeh, F., Abdull Razis, A.F. (2020). Association between dietary intake and risk of ovarian cancer: a systematic review and meta-analysis. *European Journal of Nutrition*.
- Beheshtirooy, F., Alizadeh, F., Panahi Kokhdan, E., **Khodavandi, A.** (2020). Synergistic interaction of carvacrol and fluconazole on growth inhibition of *Candida albicans* *in vitro* and *in vivo* mouse model. *Sydowia*, 72: 207-214.
- Feridoniy, M., Alizadeh, F., Panahi Kokhdan, E., **Khodavandi, A.** (2020). Study of the antifungal potential of carvacrol on growth inhibition of *Candida krusei* in a systemic candidiasis. *Advances in Traditional Medicine*.
- Jam Shahriari, S. Alizadeh, F., **Khodavandi, A.** (2020). Interaction of *Candida albicans* with combination of fluconazole/clotrimazole: effect on hyphae

- formation and expression levels of hyphal wall protein 1 (*HWPI*). *International Journal of Medical Laboratory*, 7(2): 110-120.
- Zare-Khafri, M., Alizadeh, F., Nouripour-Sisakht, S., **Khodavandi, A.**, Gerami, M (2020). Inhibitory effect of magnetic iron oxide nanoparticles on the pattern of expression of lanosterol 14 $\alpha$ -demethylase (*ERG11*) in fluconazole-resistant colonizing isolate of *Candida albicans*. *IET Nanobiotechnology*, 14(5):375-381.
  - Hakim, Z., Alizadeh, F., Panahi Kokhdan, E., **Khodavandi, A.** (2020). Microbiological and histological characteristics of interactions between carvacrol and fluconazole in a systemic candidiasis animal model. *Acta Pharmaceutica Scientia*, 58(2):180-191.
  - Khodavandi, P., Alizadeh, F., **Khodavandi, A.** (2020). Multidrug resistant, extended-spectrum beta-lactamases *ctx-m*, *per* and *ver* producing *Escherichia coli* isolated from raw dairy. *Nova Biologica Reperta*, 7(1):45-54.
  - Alizadeh, F., **Khodavandi, A.**, Ahmadsomalia, S. (2019). Expression of lanosterol 14-demethylase (*ERG11*) gene of three-drug combinations in *Candida albicans*. *Iranian Journal of Pharmaceutical Sciences*, 15(1):75-88.
  - Neamati, S. **Khodavandi, A.**, Alizadeh, F., (2019). Inhibitory effect of fluconazole combined with amphotericin b on fluconazole-resistant *Candida albicans* biofilm formation. *Journal of Advances in Medical and Biomedical Research*, 27(122):1-8.
  - **Khodavandi, A.**, Alizadeh, F., Abdolahi, M., Jahangiri, M. (2019). Differential expression levels of *ALS*, *LIP*, and *SAP* genes in *Candida tropicalis* treated with fluconazole alone and in combination with clotrimazole. *Journal of Reports in Pharmaceutical Sciences*, 8(1):28-33.
  - Ireji, E., **Khodavandi, A.** (2019). Evaluation of antibiotic resistance pattern of pathogenic bacteria in the Yasooj municipal wastewater treatment plant. *Journal of Health*, 10(2):216-227.
  - Shaygan, S., **Khodavandi, A.** (2019). Inhibitory effect of menthol on the expression of fluconazole-resistant *Candida albicans* secreted aspartyl proteinase 1 (*SAPI*). *Journal of Herbmmed Pharmacology*, 8(1):35-40.
  - Abdolahi, A., **Khodavandi, A.** (2019). Antibacterial effects of vancomycin in combination with methicillin against methicillin-resistant and methicillin-sensitive *Staphylococcus aureus*. *Journal of Shahrekord University of Medical Sciences*, 20(2):57-63.
  - Majidi Poya, M., **Khodavandi, A.** (2018). Comparison of the antifungal activity of honey and fluconazole against *Candida albicans* infection in a mouse model. *Journal of Fasa University of Medical Sciences*, 8(3):967-978.
  - **Khodavandi, A.**, Alizadeh, F., Khezrian, F. (2018). Inhibition of *Candida albicans* yeast– hyphal transition by combination of fluconazole with amphotericin B. *Physiology and Pharmacology*, 22(3):195-204.
  - **Khodavandi, A.**, Alizadeh, F., Alizadeh, E. (2018). Antifungal activity of carvacrol in combination with fluconazole or amphotericin B against *Candida albicans*. *Malaysian Journal of Microbiology*, 14(5):356-363.
  - **Khodavandi, A.**, Alizadeh, F., Zaboli zadeh, S. (2018). Inhibitory effect of carvacrol on the expression of *Candida albicans* hyphae-specific gene (*HWPI*). *Journal of Babol University of Medical Sciences*, 20(10):63-70.

- **Khodavandi, A.**, Alizadeh, F., Sanaee, T. (2018). Antifungal activity of carvacrol on ergosterol synthesis in multidrug resistant *Candida albicans*. *Hormozgan Medical Journal*, 22(2):113-121.
- **Khodavandi, A.**, Alizadeh, F., Jafarzadeh, M. (2018). Synergistic interaction of fluconazole/ amphotericin B on inhibition of enzymes contributes to the pathogenesis of *Candida tropicalis*. *Pharmaceutical Sciences*, 24(4):280-290.
- Alizadeh, F., **Khodavandi, A.**, Esfandyari, S., Nouripour-Sisakht, S. (2018). Analysis of ergosterol and gene expression profiles of sterol  $\Delta^{5,6}$ -desaturase (*ERG3*) and lanosterol 14 $\alpha$ -demethylase (*ERG11*) in *Candida albicans* treated with carvacrol. *Journal of Herbmmed Pharmacology*, 7(2):79-87.
- **Khodavandi, A.**, Alizadeh, F., Hakimizadeh, S. (2018). Effect of aqueous and ethanol extracts of Chavil leaf and stem on the inhibition of *Candida albicans* secreted aspartyl proteinase. *Journal of North Khorasan University of Medical Sciences*, 9(4):90-98.
- **Khodavandi, A.**, Alizadeh, F., Marashi, N. (2018). Antibiofilm activity of fluconazole/terbinafine combination in *Candida albicans* *HWP1* gene expression. *Arak Medical University Journal*, 20(128):22-33.
- **Khodavandi, A.**, Alizadeh, F., Abraheh, Z. (2018). Comparison of *ERG11* gene expression profiles of *Candida albicans* treated with *Thymus vulgaris* extracts alone and in combination with *Mentha spicata*. *Biological journal of Microorganism*, 25.
- Yaghobi, R., Alizadeh, F., **Khodavandi, A.** (2018). Counteraction between herpes virus infections and IL-10 and risk of bone marrow suppression *International Journal of Organ Transplantation Medicine*, 9(3):119-125.
- **Khodavandi, A.**, Alizadeh, F., Zalakian, S. (2017). Quantitation of ergosterol content and gene expression profile of lanosterol 14 $\alpha$ -demethylase (*ERG11*) gene in clinical isolate of fluconazole-resistant *Candida albicans*. *Current Medical Mycology*, 3(1):13.
- **Khodavandi, A.**, Rahimi, G. (2017). Intelligence antibiogram test for targeted antibiotic use to prevent microbial resistance. *Micro & Nano Biomedicine*, 2(1):16-17.
- Keshavarz, E.S., **Khodavandi, A.**, Alizadeh, F., Rahimi, G. (2017). The microbial quality of drinking water in Kohgiluyeh and Boyer-Ahmad province, Iran (2013-2014). *Micro & Nano Biomedicine*, 2(1):1-7.
- Yaghobi, R., **Khodavandi, A.**, Alizadeh, F. (2017). Association of TLR4 polymorphisms and polyomavirus BK infection in liver transplant patients. *Tropical Biomedicine*, 34(4):886-894.
- Sadri, F., **Khodavandi, A.**, Shamsazar, A., Negahdari, M., Rahimi, G. (2017). Nano-biological modification of the electrodes in microbial fuel cell. *Fresenius Environmental Bulletin*, 26(7):4561-4567.
- **Khodavandi, A.**, Alizadeh, F., Sadat Faraji, F. (2017). *Malva sylvestris* inhibits *Candida albicans* biofilm formation. *Journal of Herbmmed Pharmacology*, 6(2):62-68.
- Bahrami Abdehgah, I., **Khodavandi, A.**, Shamsazar, A., Negahdary, M., Jafarzadeh, M., Rahimi, G. (2017). *In vitro* antifungal effects of biosynthesized

- silver nanoparticle by *Candida albicans* against *Candida*. ***Biomedical Research***, 28(7):2870-2876.
- Rakebizadeh, M. **Khodavandi, A.**, Alizadeh, F. (2017). Isolation, molecular identification and antibiotic resistance of *Escherichia coli* from patients with urinary tract infections of Kohgiluyeh & Boyer-Ahmad province. ***Micro & Nano Biomedicine***, 1(1):35-41.
  - Rahimi, G., **Khodavandi, A.**, Yaghobi, R. (2016). Antimycotic effect of copper oxide nanoparticles on *Candida albicans* biofilm. ***Micro & Nano Biomedicine***, 1(1):7-12.
  - **Khodavandi, A.**, Alizadeh, F., Sadri, A. (2016). *Allium sativum*, *Allium hirtifolium* and *Allium cepa*: The probable quorum-sensing quenching compounds against *Candida albicans*. ***Biosciences Biotechnology Research Asia***, 13(3):1457-1468.
  - Hamdi, E., **Khodavandi, A.** (2016). Evaluation of the anti-*Candida* effect of garlic, shallot and onion to inhibit the quorum sensing activity. ***Advances in BioResearch***, 7(1):125-132.
  - Rahimi, G., Alizadeh, F., **Khodavandi, A.** (2016). Mycosynthesis of silver nanoparticles from *Candida albicans* and its antibacterial activity against *Escherichia coli* and *Staphylococcus aureus*. ***Tropical Journal of Pharmaceutical Research***, 15(2):371-375.
  - **Khodavandi, A.**, Alizadeh, F., Shahinipour, M. (2016). Relative quantitation of hyphae-specific gene *hwp1* expression in inhibition of *Candida albicans* biofilm. ***Journal of Microbial World***, 9(1):22-33.
  - Karimi, G., Sabran, MR., Jamaluddin, R., Parvaneh, K., Mohtarrudin, N., Ahmad, Z., Khazaai, H., **Khodavandi, A.** (2015). The anti-obesity effects of *Lactobacillus casei* strain Shirota versus Orlistat on high fat diet-induced obese rats. ***Food & Nutrition Research***, 59:29273.
  - **Khodavandi, A.**, Alizadeh, F., (2015). Gene expression profiling of fatty acid biosynthetic pathway during interaction of oil palm (*Elaeis guineensis* Jacq.) with the mutualistic fungus *Glomus etunicatum*. ***Acta Physiologiae Plantarum***, 37:221.
  - Rahimi, G., **Khodavandi, A.**, Jannesar, R., Alizadeh, F., Yaghobi, R., Sadri, A. (2014). Evaluation of antifungal effects of ethanolic and aqueous extracts of *Zataria Multiflora* herb in the pathogenic yeast *Candida albicans* biofilm inhibition. ***Journal of Pure and Applied Microbiology***, 8(6):4559-4564.
  - Alizadeh, F., Jannesar, R., **Khodavandi, A.**, Sadri, A., Keshavarz, E.S. (2014). Inoculation technology for *Trichoderma harzianum* during interaction with oil palm *Elaeis guineensis* Jacq. ***Journal of Pure and Applied Microbiology***, 8(6):4541-4547.
  - **Khodavandi, A.**, Alizadeh, F., Namvar, F., Mohamad, R., Chong, P.P. (2014). Anti-*Candida* potential of *Allium ascalonicum* Linn: antibiofilm activity and biomolecular mechanism of action. ***Journal of Pure and Applied Microbiology***, 8(Spl. Edn. 2):349-356.
  - Namvar, F., **Khodavandi, A.**, Alizadeh, F., Baharara, J., Bayat, S., Soltani, M., Mohamad, R., Azizi, S., Rahman, H.S. (2014). Antimicrobial activity and bioactive compounds of Persian Gulf sea cucumber (*Holothuria leucospilota*). ***Journal of Pure and Applied Microbiology***, 8(6):4455-4463.

- **Khodavandi, A.**, Alizadeh, F., Aghai Vanda, N., Karimi, G., Chong, P.P. (2014). The possible mechanisms of the antifungal activity of fluconazole in combination with terbinafine against *Candida albicans*. *Pharmaceutical Biology*, 52(12):1505-1509.
- Namvar, F., Jawaid, M., Tanir, P.M.D., Mohamad, R., Azizi, S., **Khodavandi, A.**, Rahman, H.S., Dehghan Nayeri, M. (2014). Potential use of plant fibers and their composites for biomedical applications. *BioResources*, 9(3):5688-5706.
- Rahimi, G., **Khodavandi, A.**, Yaghobi, R. (2014). Bioelectric generation using microbial fuel cell and modified grafit electrode with biological synthesis of silver nanoparticles. *Journal of Pure and Applied Microbiology*.
- Alizadeh, F., Abdullah, S.N.A., **Khodavandi, A.**, Chong, P.P. (2013). Improvement in in vitro growth rates of *Ganoderma* species with industrial wood waste supplements. *African Journal of Microbiology Research*, 7(29): 3772-3788.
- Harmal, N.S., **Khodavandi, A.**, Alshawsh, M.A., Jamal, F., Sekawi, Z., Peng, N.G., Chong, P.P. (2013). Identification and differentiation of *Candida* species using specific polymerase chain reaction (PCR) amplification of the phospholipase B gene. *African Journal of Microbiology Research*, 7(20): 2159-2166.
- **Khodavandi, A.**, Alizadeh, F. (2013). Expression analysis of hyphae-involved genes in *Candida albicans* treated by allicin originated from garlic. *Jundishapur Journal of Microbiology*, Special Edition(2):10-11.
- **Khodavandi, A.**, Alizadeh, F. (2013). Investigation the potential of allicin to inhibit the growth of *Candida albicans in vitro* and in a systemic candidiasis mouse model. *Jundishapur Journal of Microbiology*, Special Edition(2):10-11.
- **Khodavandi, A.**, Tahzir, N.A.B., Poh, W.C., Yong, P.V.C., Alizadeh, F., Harmal, N.S., Chong, P.P. (2013). Antifungal activity of *Rhizome coptidis* and *Alpinia galangal* against *Candida* species. *Journal of Pure and Applied Microbiology*, 7(3):1725-1730.
- Alizadeh, F., Abdullah, S.N.A., **Khodavandi, A.** (2013). Influence of oil palm-fungi interactions on soil microfungus community and growth profile of plant. *Journal of Pure and Applied Microbiology*, 7(4): 2577-2590.
- Harmal, N.S., **Khodavandi, A.**, Alshawsh, M.A., Jamal, F., Sekawi, Z., Ng, K.P., Chong, P.P. (2012). Simplex and triplex polymerase chain reaction (PCR) for identification of three medically important *Candida* species. *African Journal of Biotechnology*, 11(65):12895-12902.
- **Khodavandi, A.**, Harmal, N.S., Alizadeh, F., Scully, O.J., Sidik, S.M., Othman, F., Ng, K.P., Sekawi, Z., Chong, P.P. (2011). Comparison between allicin and fluconazole in *Candida albicans* biofilm inhibition and in suppression of *HWPI* gene expression. *Phytomedicine*, 19(1):56-63.
- **Khodavandi, A.**, Harmal, N.S., Alizadeh, F., Sidik, S.M., Othman, F., Ng, K.P., Sekawi, Z., Chong, P.P. (2011). Expression analysis of *SIR2* and *SAPs1-4* gene expression in *Candida albicans* treated with allicin compared to fluconazole. *Tropical Biomedicine*, 28(3):589-598.

- **Khodavandi, A.**, Yaghobi, R., Alizadeh, F., Mirzaee, M., Roshan Nia, M., Ramzi, M. (2011). Evaluation of GBVC/HGV infection in patients with non-Hodgkin's lymphoma. *African Journal of Microbiology Research*, 5(24):4143-4149.
- Alizadeh, F., Abdullah, S.N., **Khodavandi, A.**, Abdullah, F., Yusuf, U.K., Chong, P.P. (2011). Differential expression of oil palm pathology genes during interactions with *Ganoderma boninense* and *Trichoderma harzianum*. *Journal of Plant Physiology*, 168(10):1106-1113.
- **Khodavandi, A.**, Alizadeh, F., Harmal, N.S., Sidik, S.M., Othman, F., Sekawi, Z., Farboodniaye Jahromi, M.A., Ng, K.P., Chong, P.P. (2011). Comparison between efficacy of allicin and fluconazole against *Candida albicans* *in vitro* and in a systemic candidiasis mouse model. *FEMS Microbiology Letters*, 315(2):87-93.
- **Khodavandi, A.**, Alizadeh, F., Aala, F., Sekawi, Z., Chong, P.P. (2010). *In vitro* investigation of antifungal activity of allicin alone and in combination with azoles against *Candida* species. *Mycopathologia*, 169(4):287-295.
- Aala, F., Yusuf, U.K., Jamal, F., **Khodavandi, A.** (2010). *In vitro* antifungal activity of allicin alone and in combination with two medications against *Trichophyton rubrum*. *World Journal of Microbiology and Biotechnology*, 26(12):2193-2198.
- Aala, F., Yusuf, U.K., **Khodavandi, A.**, Jamal, F. (2010). *In vitro* antifungal activity of allicin alone and in combination with two medications against six dermatophytic fungi. *African Journal of Microbiology Research*, 4(5):380-385.
- Mohammad Hossini, S., Nadafi, M., Hossini, N., Gholizade, L., Afrasiabiyfar, A., **Khodavandi, A.** (2006). Atherosclerosis in patient with dialysis. *Atherosclerosis*, 7(3):127.

#### List of Papers Presented In Congress and Seminars

- Shaygan, S., **Khodavandi, A.** Antimycotic effect of menthol on expression of *SAP1*- encoding gene in *Candida albicans*. Iran's 19<sup>th</sup> International Congress of Microbiology. 2018, Tehran, Iran.
- Hosseini, F., **Khodavandi, A.** Antibacterial evaluation of vancomycin/trimethoprim combination on beta lactamase-resistant of *Escherichia coli* isolated from patients with urinary tract infection referring to the Shahid Rajai. 2<sup>nd</sup> International Congress on Biomedicine, 21-24 Des 2018, Tehran, Iran.
- Noshadi, S., **Khodavandi, A.**, Hosseini, F. Antibacterial evaluation of imipenem/sulbactam combination on beta lactamase-resistant of *Acinetobacter baumannii* isolated from patients admitted to the intensive care units to the Shahid Rajai hosp. 2<sup>nd</sup> International Congress on Biomedicine, 21-24 Des 2018, Tehran, Iran.
- Nemati, S., **Khodavandi, A.** The antifungal influence of fluconazole and amphotericin B in combination and singly on the *HWPI* gene expression of fluconazole-resistant *Candida albicans* biofilm. International and Iranian Congress of Microbiology, 29-31 August 2017, Tehran, Iran.
- Nemati, S., **Khodavandi, A.** Combination therapy of fluconazole/amphotericin B against fluconazole resistant *Candida albicans*. International and Iranian Congress of Microbiology, 29-31 August 2017, Tehran, Iran.



- Nemati, S., **Khodavandi, A.** Antifungal activity of fluconazole/amphotericin B against isolated of fluconazole-resistant *Candida albicans*. International Congress of Laboratory and Clinic, National Congress on Medical Basic Sciences and Knowledge- Based Production, 21-24 February 2017, Tehran, Iran.
- Bahrami Abdehghah, I., **Khodavandi, A.** Antibacterial effects of piperacillin/gentamicin and imipenem/ gentamicin on resistant isolates of *Pseudomonas aeruginosa*. The 9<sup>th</sup> International & 14<sup>th</sup> National Congress on Quality Improvement in Clinical Laboratories. 19-22 April 2017, Tehran, Iran.
- Alinejad, M., **Khodavandi, A.** *In vitro* antifungal susceptibility patterns of the *Candida* species isolated from patients with vaginitis of Gachsaran. International Congress of Laboratory and Clinic, National Congress on Medical Basic Sciences and Knowledge- Based Production, 5-8 February 2016, Tehran, Iran.
- Alinejad, M., **Khodavandi, A.** Investigate the relationship between vulvovaginal candidiasis with predisposing factors and clinical evidence in city of Gachsaran. International Congress of Laboratory and Clinic, National Congress on Medical Basic Sciences and Knowledge- Based Production, 5-8 February 2016, Tehran, Iran.
- Sadri, A., **Khodavandi, A.** Investigation of the inhibitory effect of *Zataria Multiflora* extract on *Candida albicans* yeast. International Congress of Laboratory and Clinic, National Congress on Medical Basic Sciences and Knowledge- Based Production, 5-8 February 2016, Tehran, Iran.
- Rahimi, G., **Khodavandi, A.** Evaluation of the effect of copper oxide and aluminum oxide nanoparticles on the formation of biofilm in *Candida albicans*. Asian Nano Forum Conference, 2015, Kish, Iran.
- Rahimi, G., **Khodavandi, A.** Myco-synthesis of silver nanoparticles using the yeast *Candida albicans* and evaluation of the antibacterial effect. Asian Nano Forum Conference, 2015, Kish, Iran.
- Rahimi, G., **Khodavandi, A.** Bioelectric generation using microbial fuel cell and modified grafit electrode with biological synthesis of silver nanoparticles. International Conference in emerging trends in energy conservation. International Conference in Emerging Trends in Energy Conservation. 18-19 February 2015, Tehran, Iran.
- Keshavarz, E.S. **Khodavandi, A.** Evaluation of intestinal bacteria and determination of their antibiotic susceptibility in drinking water of Boyer Ahmad city in 2013-2014. 23<sup>th</sup> Iranian Congress on Infectious Diseases and Tropical Medicine. 12-16 January 2015 Tehran, Iran.
- Sadat Faraji, F., Alizadeh, F., **Khodavandi, A.** The inhibitory effects of extracts of *Malva sylvestris* and *Ferulago angulata* against *Candida krusei* and *Candida albicans*. 23<sup>th</sup> Iranian Congress on Infectious Diseases and Tropical Medicine. 12-16 January 2015 Tehran, Iran.
- Hamdi, E., **Khodavandi, A.** Yaghoobi, R. Evaluation of the antifungal activity of *Amaryllidaceae* to inhibit the growth of *Candida albicans*. 3<sup>th</sup> National Congress on Medicinal Plants. 7 April 2015 Mashhad, Iran.
- Rahimi, G., **Khodavandi, A.** Yaghoobi, R. Evaluation of the effect of copper oxid and Aluminum oxid nanoparticles on the formation of biofilm in *Candida*

- albicans*. 3<sup>th</sup> Iranian Congress in Medical Mycology. 15-16 May 2014 Tehran, Iran.
- Hamdi, E., **Khodavandi, A.** Yaghobi, R. Evaluation of the antifungal activity of *Garlic, Shallot, Onion* to inhibit the growth of *Candida albicans*. 3<sup>th</sup> Iranian Congress in Medical Mycology. 15-16 May 2015 Tehran, Iran.
  - Keshavarz, E.S. **Khodavandi, A.** Isolation and identification of intestinal bacteria from drinking water in Kohgiloye and Boyer-Ahmad province. 8<sup>th</sup> International Congress on Microbiology, 30 Sep - 2 Oct 2014. Tabriz, Iran.
  - Rakebizadeh, M. **Khodavandi, A.** Isolation and identification of *Escherichia coli* in patients with urinary tract infection in Kohgiluyeh and Boyer Ahmad province. 8<sup>th</sup> International Congress on Microbiology, 30 Sep - 2 Oct 2014. Tabriz, Iran.
  - Javeri, M., **Khodavandi, A.**, Yaghobi, R. Frequency of *Candida* species isolated from blood cultures in burn patients. National Congress of Antimicrobial-Resistant Infections, 2014 Sari Iran.
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### Book

1. Antifungal Agents and Their Mechanism of Action
2. Modern Techniques in Susceptibility Tests of Antifungal Agents

### Thesis Under Supervision

- Evaluation of the effect of copper oxid and aluminum oxid nanoparticles on the formation of biofilm in *Candida albicans*.
- *In vitro* investigation of synergistic effects of some anti-*Candida* drugs.
- *In vitro* Investigation of antifungal activity of fluconazole/ terbinafine combination against *Candida albicans*.
- *In vitro* antifungal susceptibility patterns of the *Candida* species isolated from patients with vaginitis of Gachsaran.
- Evaluation of wastewater treatment of Yasouj in the eliminating of gram negative bacterial pathogens including *Escherichia coli*, *Listeria monocytogenes* and *Pseudomonas aeruginosa*.
- Microbial synthesis of silver and iron nanoparticles by *Bacillus* sp. And *Fusarium* sp. and evaluation of their anti-biofilm activities in *Candida albicans* and *Pseudomonas aeruginosa*.
- The effects of antibacterial activities of piperacillin/ gentamicin and imipenem/ gentamicin against resistant isolates of *Pseudomonas aeruginosa*.

- Frequency of genes involved on hyphae formation of *Candida albicans* in patients with multiple sclerosis.
- Evaluation of antifungal effects of *Prangos ferulaceae*, *Trigonella foenum-graecum* and *Plantago major* against fluconazole- resistant *Candida* species.
- Detection and identification of blood-infectious agents in hospitalized patients with wound infection in Esfahan during 2012 and 2013.
- Evaluation of molecular mechanisms of action of shallot against *Pseudomonas aeruginosa* biofilm production
- Evaluation of the anti-*Candida* effect of garlic, shallot and onion to inhibit the quorum sensing activity.
- Alizadeh, The prevalence and molecular evaluation of enteric bacteria producing metallo- $\beta$ -lactamases (carbapenemase group 4) in clinical isolates of Isfahan health centers using rep-PCR and MLST methods.
- Isolation and identification of microbial biofilms from drinking water of Yasouj.
- The effects of antibacterial activities of garlic and shallot plants to inhibit the growth of resistant isolates of *Staphylococcus aureus* and *Pseudomonas aeruginosa*.
- Isolation and molecular identification of *Escherichia coli* from patients with urinary tract infections in Kohgiluyeh and Boyer-Ahmad.
- Evaluation of the effect of antimicrobial activity of *Lactobacillus* isolated from raw milk against *Candida albicans*, *Staphylococcus aureus* and *Pseudomonas aeruginosa*.
- Phenotypic and genotypic investigation of betalactam genes; *CTX-M*, *VEB*, *PER* in *Escherichia coli* isolated from raw dairy products.
- Evaluation the effects of anti-fungal activities of menthol against *Candida albicans in vitro*.
- Evaluation of shallot action against *Candida albicans* hyphae production.
- Evaluation of the effect of aqueous shallot extract on *Candida albicans* biofilm.
- Evaluation of antibacterial effects of vancomycin/methicillin combination against methicillin-resistant *Staphylococcus aureus*.
- Identification of beta lactam- resistant fecal coliform and heterotrophic bacteria from drinking water of Yaouj.
- Anti-biofilm activity of azole compounds against *Candida* species isolated from immunocompromised patients in Darab.
- Frequency of *BasD*, *BauA*, *OmpA* genes in resistant *Acinetobacter baumannii* isolated from patients in hospital intensive care Namazi of Shiraz.
- Isolation and identification of intestinal bacteria from drinking water in Kohgiluyeh and Boyer-Ahmad province.
- Evaluation of anticandidal effect of native honeys from Kohgiluyeh and Boyer-Ahmad province.
- Distribution of genes *sfa*, *pap*, *fim-H*, *afa*, *aer* in uropathogenic *Escherichia coli* isolated from diabetic women with urinary tract infection.
- Antifungal activity of fluconazole/amphotericin B in biofilm inhibition of *Candida albicans* fluconazole – resistant.

- Assessment of the frequency of beta-lactamase resistance genes *TEM*, *CTX\_M*, and *SHV* in uropathogenic *Escherchia coli* isolates from diabetic women with urinary tract infection.

### **Honors**

- International Conference on Crop Improvement, Issues and Prospects for Biotechnology Intervention. 25-26 November 2013 Bangi, Malaysia. Best Poster Awards
- Investigation of the effect of allicin on biofilm growth and gene expression in *Candida albicans*. PRPI 2010, University Putra Malaysia, Malaysia. Silver Medal.
- The selected researcher of Azad University, Gachsaran branch, Iran, 2010.
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### **Editorial Board of Scientific Indexed Journals**

- The Open Biology Journal
- Journal of Applied Oral Science

### **Evaluation Activities**

- Review 100 M.Sc. and Ph.D. Thesis
- African Journal of Microbiology Research
- Molecular Biology Reports
- Tropical Biomedicine
- Advancement in Medicinal Plant Research
- MethodsX
- Journal of Applied Oral Science
- Proceedings of the National Academy of Sciences, India Section B: Biological Sciences
- Molecular Biology Reports
- IEEE Journal of Biomedical and Health Informatics (3)
- Nanomedicine: Nanotechnology, Biology, and Medicine
- Journal of Fasa University of Medical Sciences
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- International Journal of Molecular and Clinical Microbiology



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