

Curriculum Vitae (CV)

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Dr. Alireza neshani

BIOGRAPHICAL DETAILS

Name	Alireza
Surname	Neshani
Gender	Male
Address	Department of Laboratory Sciences, School of Paramedical Sciences, Mashhad, Iran
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EDUCATION

2019-2020	Postdoc in Antimicrobial peptides Antimicrobial Resistance Research Center, Mashhad University of Medical Sciences, Mashhad, Iran
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Dissertation:

- 1- Synthesis of two anti-microbial peptides, melittin and nisin, and their antibacterial effects on mycoplasmas and other common pathogens.
- 2- Formulation and therapeutic evaluation of several antimicrobial peptides produced in the Department of Microbiology in Mashhad University of Medical Sciences on skin and soft tissue infections.

2015 – 2019	Ph.D. in Medical Bacteriology Mashhad University of Medical Sciences, Faculty of Medicine, Mashhad, Iran
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Dissertation: " construction of antimicrobial peptide (Pexiganan and TP4) and anti-helicobacter assay in-vitro and in-vivo and study the antimicrobial activity against other common pathogens specially mycobacterium"

2012 – 2015	M.Sc. in Medical Microbiology Mashhad University of Medical Sciences, Faculty of Medicine, Mashhad, Iran
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Dissertation: "Development of a novel method for simple and reliable detection of LAMP reaction products in a closed system compared to available detection methods for rapid detection of Mycobacterium tuberculosis complex in clinical specimens"

2008 – 2012 **B.Sc. in medical Laboratory Sciences**
Department of Laboratory Sciences, School of Paramedical Sciences, Mashhad
University of Medical Sciences, Mashhad, Iran

EDUCATIONAL EXPERIENCES

2014 Microbiology, Theoretical and Practical Courses, **Operating room Students**, Mashhad University of Medical Sciences, School of Nursing and Midwifery, Mashhad, Iran

2016-Present Medical Bacteriology: Practical Course. Medical Students, Dental Students, Pharmacy students, Mashhad University of Medical Sciences, Faculty of Medicine. Mashhad, Iran

2018-Present Microbiology, Theoretical and Practical Courses, **Public Health Students**, Mashhad University of Medical Sciences, School of Public Health. Mashhad, Iran

2019-2020 Medical microbiology: Theoretical Course, MS in food safety and hygiene Students, Mashhad University of Medical Sciences, Faculty of Medicine. Mashhad, Iran

PUBLICATIONS

1. **Neshani, A.**, Zare, H., Akbari Eidgahi, M. R., Hooshyar Chichaklu, A., Movaqar, A., & Ghazvini, K. (2019). Review of antimicrobial peptides with anti-Helicobacter pylori activity. *Helicobacter*, 24(1), e12555.
2. **Neshani, A.**, Eidgahi, M. R. A., Zare, H., & Ghazvini, K. (2018). Extended-Spectrum antimicrobial activity of the Low cost produced Tilapia Piscidin 4 (TP4) marine antimicrobial peptide. *J Res Med Dent Sci*, 6(5), 327-34.
3. **Neshani, A.**, Zare, H., Eidgahi, M. R. A., Khaledi, A., & Ghazvini, K. (2019). Epinecidin-1, a highly potent marine antimicrobial peptide with anticancer and immunomodulatory activities. *BMC Pharmacology and Toxicology*, 20(1), 33.
4. **Neshani, A.**, Kakhki, R. K., Sankian, M., Zare, H., Chichaklu, A. H., Sayyadi, M., & Ghazvini, K. (2018). Modified genome comparison method: a new approach for identification of specific targets in molecular diagnostic tests using Mycobacterium tuberculosis complex as an example. *BMC infectious diseases*, 18(1), 517..

5. **Neshani, A.**, Sedighian, H., Mirhosseini, S. A., Ghazvini, K., Zare, H., & Jahangiri, A. (2020). Antimicrobial peptides as a promising treatment option against *Acinetobacter baumannii* infections. *Microbial Pathogenesis*, 104238.
6. **Neshani, A.**, Zare, H., Eidgahi, M. R. A., Kakhki, R. K., Safdari, H., Khaledi, A., & Ghazvini, K. (2019). LL-37: Review of antimicrobial profile against sensitive and antibiotic-resistant human bacterial pathogens. *Gene Reports*, 17, 100519.
7. Kakhki, R. K., **Neshani, A.**, Sankian, M., Ghazvini, K., Hooshyar, A., & Sayadi, M. (2019). The short-chain dehydrogenases/reductases (SDR) gene: A new specific target for rapid detection of *Mycobacterium tuberculosis* complex by modified comparative genomic analysis. *Infection, Genetics and Evolution*, 70, 158-164.
8. Aryan, E., **Neshani, A.**, Sadeghian, H., & Safdari, H. (2016). Visual detection of mycobacterium tuberculosis by loop-mediated isothermal amplification. *European Respiratory Journal* 2016 48: OA1509.
9. Aryan, E., Sayadi, M., Meshkat, Z., **Neshani, A.**, & Safdari, H. (2018). Evaluation of new biomarkers for laboratory diagnosis of tuberculosis. *European Respiratory Journal*.
10. Safdari, H., **Neshani, A.**, Sadeghian, A., Ebrahimi, M., Iranshahi, M., & Sadeghian, H. (2014). Potent and selective inhibitors of class A β -lactamase: 7-prenyloxy coumarins. *The Journal of antibiotics*, 67(5), 373.
11. Kholoujini, M., Karami, P., Khaledi, A., **Neshani, A.**, Matin, P., & Alikhani, M. Y. (2016). Identification of pathogenic bacteria in blood cultures and susceptibility testing of isolates with various antibiotics.
12. Khaledi, A., Esmaili, D., Jamehdar, S. A., Esmaili, S. A., **Neshani, A.**, & Bahador, A. (2016). Expression of MFS efflux pumps among multidrug resistant *Acinetobacter baumannii* clinical isolates. *Der. Pharm. Lett*, 8, 262-267.
13. Esmaili, D., Daymad, S. F., **Neshani, A.**, Rashki, S., Marzhoseyni, Z., & Khaledi, A. (2019). Alerting prevalence of MBLs producing *Pseudomonas aeruginosa* isolates. *Gene Reports*, 16, 100460.
14. Kakhki, R. K., Kakhki, M. K., & **Neshani, A.** (2020). COVID-19 target: A specific target for novel coronavirus detection. *Gene Reports*, 100740.
15. Moghaddam, A. S., Mansouri, S., **Neshani, A.**, Firoozeh, F., Matinpur, A., Khaledi, A., & Ghazalibina, M. (2020). Construction, Cloning, and Expression of CagA Recombinant Protein of *Helicobacter pylori*. *Avicenna Journal of Medical Biotechnology*, 12(2), 135.
16. Mansuri, S., Taraghian, M., Pirouzi, A., **Neshani, A.**, & Rashki, S. (2020). Pulmonary Nocardiosis in Suspected Tuberculosis Patients. *Ethiopian Journal of Health Sciences*, 30(2), 293-300.
17. K. Moridi, M. Hemmaty, M.R.A. Eidgahi, M.F. Najafi, H. Zare, K. Ghazvini, **A. Neshani**, Construction, cloning, and expression of Melittin antimicrobial peptide using *Pichia pastoris* expression system, *Gene Reports*. (2020) 100900.

18. Zare, H., Meshkat, Z., Hatamluyi, B., Rezayi, M., Ghazvini, K., Derakhshan, M., ... & Aryan, E. (2022). The first diagnostic test for specific detection of *Mycobacterium simiae* using an electrochemical label-free DNA nanobiosensor. *Talanta*, 238, 123049.
19. Zare, H., Rezayi, M., Aryan, E., Meshkat, Z., Hatamluyi, B., Neshani, A., ... & Sankian, M. (2021). Nanotechnology-driven advances in the treatment of diabetic wounds. *Biotechnology and Applied Biochemistry*, 68(6), 1281-1306.
20. ARYAN, E., MESHKAT, Z., Gheybi, F., **NESHANI, A.**, GHAZVINI, K., Rezayi, M., 2021. Development of biosensors for the detection of COVID-19 Hosna Zare1, 2, 3, (review paper). *NANOMEDICINE RESEARCH JOURNAL*,
21. Jahangiri, **A.**, **Neshani, A.**, Mirhosseini, S. A., Ghazvini, K., Zare, H., & Sedighian, H. (2021). Synergistic effect of two antimicrobial peptides, Nisin and P10 with conventional antibiotics against extensively drug-resistant *Acinetobacter baumannii* and colistin-resistant *Pseudomonas aeruginosa* isolates. *Microbial Pathogenesis*, 150, 104700.

books

1. Published in Iran 2015 -----Oral microbiology
2. Published in Iran 2018-----Practical bacteriology
3. Published in Iran 2021-----Basic principles of medical laboratory

Patents

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| 1. | Registered in Iran- 2019 | Diagnostic kit for mycobacterium tuberculosis complex identification and differentiation from Nontuberculous mycobacteria (NTM) using Multiplex PCR technique. |
| 2. | Registered in Iran- 2019 | Diagnostic kit for tuberculosis identification and differentiation from nocardiosis using Multiplex PCR technique. |
| 3. | Registered in Iran- 2019 | Diagnostic kit for tuberculosis identification and differentiation from Nontuberculous mycobacteria (NTM) infections by simultaneous detection of two diagnostic biomarkers, using LAMP technique |
| 4. | Registered in Iran- 2021 | Optimization process for the production of tilapia piscidin 4 |
| 5. | Registered in Iran- 2021 | Optimization process for the production of pexiganan |

RESEARCH INTERESTS

Antimicrobial Peptides, Recombinant proteins, Mycobacteriology (New diagnostic methods, Drug resistance, Molecular epidemiology, immunology and Vaccines),
Antibiotic Resistance, Molecular Diagnosis of Human Pathogens,