



Dr. Behzad Pourhossein

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Current Position at PSRC/SBMU:

I have been working in Pharmaceutical Sciences Research Center (PSRC) since 06.02.2023. My positions in the center are as a health researcher and a journal technical manager ([IJPS](#) and [IPA](#)).

Academic Background:

Ph.D.: Department of Virology, Public health Faculty, Tehran University of Medical Sciences, Tehran, Iran.

Graduated with excellent degree (19.97) (August 2018)

Supervisors: Dr. Shohreh Shahmahmoudi, Dr. Amir Ghaemi

Thesis topic: Evaluation of therapeutic effect of DNA vaccine encoding HPV-16 E7 gene adjuvanted by cytokines genes IL-18 and mda-7 / IL-24 in C57BL/6 tumor mouse

MSc: Department of Virology, Faculty of Medicine, Tarbiat Modares University, Tehran, Iran.

Graduated with excellent degree (20) (September 2011)

Supervisors: Dr. Hoorieh Soleimanjahi

Thesis topic: Application of LAMP and PCR Tests for Diagnosis of Herpes Virus Type One

High school: Shahid Babaii high school, Tabriz, Iran (**July 1999**).

Work Experience:

- *Jan 2009 – April 2015* Department of Epidemiology, Pasteur Institute of Iran (IPI), Tehran, Iran (**Project co-worker**).
- *Jan 2011 – May 2012* Laboratory of Arboviruses and Viral Hemorrhagic Fevers (National Reference Laboratory), Pasteur Institute of Iran (IPI), Tehran, Iran (**Project co-worker**).
- *May 2015-August 2015* WHO Collaborating Center for Reference and Research on Rabies, Pasteur Institute of Iran (IPI), Tehran, Iran (**Project co-worker**).
- *September 2011-July 2018* Department of Virology, Tehran University of Medical Sciences, School of Public Health, Tehran, Iran (**Ph.D. candidate**).
- *July 2018- October 2020* PersisgenPar Co., Tehran, Iran (**QC Department**).
- *October 2020- January 2023* Department of Medical Virology, Faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran (**Faculty Member**).
- *January 2023- until now* Pharmaceutical Sciences Research Center, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Skills:

- **Languages:** Persian, Azerbaijani, English
- **Computer skills:** ICDL, Photoshop, SPSS, ...
- **Laboratory skills:** Gel Electrophoresis, Molecular Diagnostics, Vaccinology, Medical Virology, IFA, Viral Immunology, Biosafety, Zoonoses, Zoonotic Diseases, Microbial Molecular Biology, Nucleic Acid Extraction, Immunology of Infectious Diseases, Tumor

Virology (HPV), Molecular Cloning, SDS-PAGE, Virology Methods, Cell Culture, DNA Amplification, PCR, Primer, Virus Diseases, Virus Replication, Seroepidemiologic Studies, Molecular Virology, Biosafety and Biosecurity, Infectious Disease Diagnostics, RNA Extraction, DNA Extraction, Loop-Mediated Isothermal Amplification, DNA Vaccines, Viral Cell Culture, Cell Culture, In vivo/vitro expression, Animal model study, Molecular detection unit develops, Cell culture unit develop, Flow Cytometry, Genomics, Proteomics & bioinformatics.

- **Communication/ administrative skills**
 - Design project
 - Writing scientific proposal
 - Planning and management of project

- **Books:**
 - Medical Microbiology, Murray, Eighth Edition (Translator)
 - Basic Method Validation; by James Patricia L. Barry BS and O Westgard (Translator)

- **Patent:**
 - Instruction of a new kit for diagnosis of rabies virus infection using the RT-LAMP (Reverse Transcription Loop-Mediated Isothermal Amplification) technique.
 - Design of kit containing 2 new primers for rabies virus RNA detection by qRT-PCR technique in circulating strains in Iran

Publications:

- 2023 Masoumeh Navidinia, Samira Zamani, Anis Mohammadi, Shahram Araghi, Chakameh Amini, **Behzad Pourhossein**, Mehdi Goudarzi. *Hospital-Related Lineage of USA300 Methicillin-Resistant Staphylococcus aureus (MRSA) to Cause Bacteremia in Iran*. BioMed Research International. 8335385. Doi:[10.1155/2023/8335385](https://doi.org/10.1155/2023/8335385)
- 2022 Fateme Taheri, Ali Hashemi, Mehrdad Haghighi, Masoud Dadashi, Mohammad Javad Nasiri, Saeed Khoshnood, Bahareh Hajikhani, Mirmohammad Miri, **Behzad Pourhossein**, Mehdi Goudarzi. *Characterization of Staphylococcus Aureus Isolated from Burn Wound; Strong Antibacterial Activity of Phage Cocktail Against Vancomycin Intermediate-Resistant Staphylococcus Aureus*. Journal of microbiology, biotechnology and food sciences. 12(2): e5366-e5366. Doi:[10.55251/jmbfs.5366](https://doi.org/10.55251/jmbfs.5366)
- 2022 Mahsa Jalili, Nastaran Ansari, **Behzad Pourhossein**, Maryam Fazeli, Farid Azizi Jalilian. *An Overview of Antiviral Properties of Bacteriophages with Emphasis on the Treatment*

of COVID-19 Infection. Infect Disord Drug Targets. e240122200472.
Doi:[10.2174/1871526522666220124110547](https://doi.org/10.2174/1871526522666220124110547)

•2022 Farid Azizi Jalilian, Gheisar Keshavarz, Salman Khazaei, Manije Nezamdoost, Seyed Hamid Hashemi, Mojgan Mamani, Nastaran Ansari, Razieh Amini, Aref Khalkhali, Arghavan Keshavarz, Erfan Ayubi, Maryam Fazeli, Rashid Heidari Moghadam, Saeid Alizadeh, **Behzad Pourhossein**, Ali Teimouri, Fariba Keramat, Sajad Karampour, Mohammadreza Khakzad. *The effects of nutrition bio-shield superfood powder on immune system function: A clinical trial study among patients with COVID-19*. Frontiers in immunology. 919402. Doi:[10.3389/fimmu.2022.919402](https://doi.org/10.3389/fimmu.2022.919402)

•2022 M. Jalili, K. Sayehmiri, N. Ansari, **B. Pourhossein**, M. Fazeli, F. Azizi Jalilian. *Association between Influenza and COVID-19 Viruses and the Risk of Atherosclerosis: Meta-Analysis Study and Systematic Review*. Advances in Respiratory Medicine. 90(4): 338-348. Doi:[10.3390/arm90040043](https://doi.org/10.3390/arm90040043)

•2022 Seyed Mohammad Miri, **Behzad Pourhossein**, Seyed Younes Hosseini, Mohsen Keshavarz, Shohreh Shahmahmoodi, Mohammad Reza Zolfaghari, Seyed Reza Mohebbi, Ali Gorji, Amir Ghaemi. *Enhanced synergistic antitumor effect of a DNA vaccine with anticancer cytokine, MDA-7/IL-24, and immune checkpoint blockade*. Virology Journal.19(1): 19. Doi:[10.1186/s12985-022-01842-x](https://doi.org/10.1186/s12985-022-01842-x)

•2022 Sima Sadat Seyedjavadi, Mehdi Razzaghi-Abyaneh, Mohammad Javad Nasiri, Ali Hashemi, Hossein Goudarzi, Mehrdad Haghghi, Masoud Dadashi, Mehdi Goudarzi, Hadi Zare-Zardini, **Behzad Pourhossein**. *Isolation and Chemical Characterization of an Alpha-Helical Peptide, Dendrocina-ZM, Derived from Zataria multiflora Boiss with Potent Antibacterial Activity*. Probiotics and Antimicrobial Proteins. DOI: 10.1007/s12602-022-09907-7. Doi:[10.1007/s12602-022-09907-7](https://doi.org/10.1007/s12602-022-09907-7)

•2022 Mohammadamin Farhangnasab, **Behzad Pourhossein**, Mahsa Golahdouz, Mahsa Taherizadeh, Sara Sharifi, Narges Rostami, Narjes Morovati Moez, Mehran Mahouti, Maryam Fazeli. *The effect of different types of climate on the spread of COVID-19*. Novelty in Biomedicine Journal. Doi:[10.22037/nbm.v10i1.36598](https://doi.org/10.22037/nbm.v10i1.36598)

•2022 N. Shabansalmani, **B. Pourhossein**, MS. Khosravy, F. Farahtaj, SF. Alavian. *A Review of Rabies Treatment Methods in Ancient Iran*. J Virol Viral Dis.2(3). Doi:[10.54289/JVVD2200111](https://doi.org/10.54289/JVVD2200111)

•2022 Mohammad Saeid Emadi, Saber Soltani, Bezhan Noori, Milad Zandi, Zainab Shateri, Alireza Tabibzadeh, Emad Behboudi, Yousef Erfani, Seidamir Pasha Tabaeian, **Behzad Pourhossein**, Mojtaba Didehdar. *Highly Conserve Sequences in Envelope, Nucleoprotein and RNA-Dependent RNA Polymerase of SARS-CoV-2 in Nasopharyngeal Samples of the COVID-19 Patients; a Diagnostic Target for Further Studies*. Journal of Cellular & Molecular Anesthesia.7(2):78-83. Doi:[10.22037/jcma.v7i2.36963](https://doi.org/10.22037/jcma.v7i2.36963)

- 2021 Malihe Soltani, Bahareh Hajikhani, Samira Zamani, Mehrdad Haghghi, Ali Hashemi, Mohammad Javad Nasiri, Masoud Dadashi, **Behzad Pourhossein**, Mehdi Goudarzi. *Molecular characterization of Staphylococcus aureus strains isolated from hospitalized patients based on coagulase gene polymorphism analysis: High frequency of vancomycin-intermediate S. aureus and the emergence of coagulase type II in Iran.* Gene Reports.23:101078. Doi:[10.1016/j.genrep.2021.101078](https://doi.org/10.1016/j.genrep.2021.101078)
- 2021 Saman Pazira, Mahsa Golahdouz, Mahsa Taherizadeh, **Behzad Pourhossein**, Seyed Masoud Hosseini, Farid Azizi Jalilian, Rouzbeh Bashar, Maryam Fazeli. *Investigation of the frequency of rabies in EMRO countries: A review study.* Journal of Clinical Images and Medical Case Reports. [[Link](#)]
- 2021 Maryam Fazeli, Saman Pazira, **Behzad Pourhossein**, Azadeh Rasooli, Nastaran Ansari, Farid Azizi Jalilian. *Positive Result for SARS-CoV-2 RNA Test after a Long Time for the Patient with COVID-19 even after Discharge from the Hospital.* Novelty in Biomedicine Journal. 9(3):152-5. Doi:[10.22037/nbm.v9i3.35376](https://doi.org/10.22037/nbm.v9i3.35376)
- 2021 Milad Zandi, Maryam Fazeli, Parnian Ghadimi, Saber Soltani, Farid Azizi Jalilian, Aryan Banai Shahani, Emad Behboudi, **Behzad Pourhossein**. *Autophagy Role as a Double-Edged Sword in Anesthesiology and Critical Care.* Journal of Cellular & Molecular Anesthesia (JCMA).6(1):39-49. Doi:[10.22037/jcma.v6i1.32381](https://doi.org/10.22037/jcma.v6i1.32381)
- 2020 Samira Sanami, Milad Zandi, **Behzad Pourhossein**, Gholam-Reza Mobini, Mohsen Safaei, Atena Abed, Pooria Mohammadi Arvejeh, Fatemeh Amini Chermahini, Morteza Alizadeh. *Design of a multi-epitope vaccine against SARS-CoV-2 using immunoinformatics approach.* International journal of biological macromolecules.164:871-883. Doi:[10.1016/j.ijbiomac.2020.07.117](https://doi.org/10.1016/j.ijbiomac.2020.07.117)
- 2020 **Behzad Pourhossein**, Ali Dabbagh, Maryam Fazeli. *Insights into the SARS-CoV2 Outbreak; the great global challenge: A mini review.* Journal of Cellular & Molecular Anesthesia.5(1):23-26. Doi:[10.22037/jcma.v5i1.29718](https://doi.org/10.22037/jcma.v5i1.29718)
- 2020 Milad Zandi, Samira Rashid, Sepide Nasimzade, **Behzad Pourhossein**, Maryam Fazeli. *A Snapshot of Different Types of Under Research Vaccines against COVID-9: A Review.* Arch Med Lab Sci.6:e7. Doi:[10.22037/amls.v6.32379](https://doi.org/10.22037/amls.v6.32379)
- 2020 Rasooli A, **Pourhossein B**, Bashar R, Shirzadi MR, Amiri B, Vadaye Kheiri E, et al. *Investigating Possible Etiologies of Post- Exposure Prophylaxis Failure and Deaths From Rabies Infection: Case Reports.* International Journal of Medical Toxicology and Forensic Medicine.10(3):27378. Doi:[10.32598/ijmtfm.v10i3.27378](https://doi.org/10.32598/ijmtfm.v10i3.27378)
- 2019 Sara Nouri Basirat, **Behzad Pourhossein**, Nasim Niknam, Rouzbeh Bashar, Mojtaba Sanji Rafsanjani, et al. *Acute and Critical Care for Rabies Bitten Patients and the Different Outcomes in a Family: A Post Exposure Prophylaxis (PEP) Failure Report.* Journal of Cellular & Molecular Anesthesia.4(4):148-5. Doi:[10.22037/jcma.v4i4.29172](https://doi.org/10.22037/jcma.v4i4.29172)

- Golahdooz M, Eybpoosh S, Bashar R, Taherizadeh M, **Pourhossein B**, Shirzadi MR, et al. *Comparison of immune responses following intradermal and intramuscular rabies vaccination methods*. Journal of Microbial Medicine and Infectious Disease. Doi:[10.29252/JoMMID.6.4.77](https://doi.org/10.29252/JoMMID.6.4.77)
- 2019 Taherizadeh M, Bashar R, Golahdooz M, **Pourhossein B**, Fazeli M. *Rabies wonderful strategies to escape the immune system*. Journal of Dairy and Veterinary Sciences.11(1):1-4. Doi:[10.19080/JDVS.2019.11.555801](https://doi.org/10.19080/JDVS.2019.11.555801)
- 2018 Fazeli M, Golahdooz M, Bashar R, Arab Baferani M, Doosti Irani A, **Pourhossein B**, et al. *Design and validation of a Persian knowledge, attitude, and practice questionnaire for rabies (PKAP-Rabies) in the general population of Iran*. Journal of Medical Microbiology and Infectious Diseases.6(2 and 3):67-71. Doi:[10.29252/JoMMID.6.2.3.67](https://doi.org/10.29252/JoMMID.6.2.3.67)
- 2018 **Pourhossein B**, Ghaemi A, Fazeli M, Azadmanesh K, Mahmoodi M, Mirshafiey A, et al. *Evaluation of therapeutic potency of human papillomavirus-16 E7 DNA vaccine alone and with interleukin-18 as a genetic adjuvant*. Scientia Medica.28(3):ID30555. Doi:[10.15448/1980-6108.2018.3.30555](https://doi.org/10.15448/1980-6108.2018.3.30555)
- 2017 Mostafavi E, **Pourhossein B**, Esmaeili S, Bagheri Amiri F, Khakifirouz S, Shah-Hosseini N, et al. *Seroepidemiology and risk factors of Crimean-Congo hemorrhagic fever among butchers and slaughterhouse workers in southeastern Iran*. International Journal of Infectious Diseases.64:85-9. Doi:[10.1016/j.ijid.2017.09.008](https://doi.org/10.1016/j.ijid.2017.09.008)
- 2017 Mostafavi E, Shahraki AH, Japoni-Nejad A, Esmaeili S, Darvish J, Sedaghat MM, et al. *A field study of plague and tularemia in rodents, western Iran*. Vector Borne Zoonotic Diseases.17(4):247-53. Doi:[10.1089/vbz.2016.2053](https://doi.org/10.1089/vbz.2016.2053)
- Esmaeili S, Naddaf SR, **Pourhossein B**, Hashemi Shahraki A, Bagheri Amiri F, et al. *Seroprevalence of brucellosis, leptospirosis, and Q fever among butchers and slaughterhouse workers in south-eastern Iran*. PLoS ONE. 11(1): e0144953. Doi:[10.1371/journal.pone.0144953](https://doi.org/10.1371/journal.pone.0144953)
- 2015 **Pourhossein B**, Esmaeili S, Gyuranecz M, Mostafavi E. *Tularemia and plague survey in rodents in an earthquake zone in southeastern Iran*. Epidemiology and Health.37:e2015050. Doi:[10.4178/epih/e2015050](https://doi.org/10.4178/epih/e2015050)
- 2015 **Pourhossein B**, Irani AD, Mostafavi E. *Major infectious diseases affecting the Afghan immigrant population of Iran: a systematic review and meta-analysis*. Epidemiology and Health.37:e2015002. Doi:[10.4178/epih/e2015002](https://doi.org/10.4178/epih/e2015002)
- 2014 **Pourhossein B**, Yaghmaei F, Esmaeili S, Banafshi O, Afrasiabian S, Shirzadi MR, et al. *Acute human cytomegalovirus infection with bleeding in Iran*. Osong Public Health Research Perspectives.5(6):383-6. Doi:[10.1016/j.phrp.2014.10.003](https://doi.org/10.1016/j.phrp.2014.10.003)
- 2013 Esmaeili S, **Pourhossein B**, Gouya MM, Bagheri Amiri F, Mostafavi E. *Seroepidemiological survey of Q fever and brucellosis in Kurdistan province, western Iran*. Vector Borne and Zoonotic Diseases.4(1). Doi:[10.1089/vbz.2013.1379](https://doi.org/10.1089/vbz.2013.1379)

- 2014 Mostafavi E, **Pourhossein B**, Chinikar S. *Clinical symptoms and laboratory findings supporting early diagnosis of Crimean-Congo hemorrhagic fever in Iran*. Journal of Medical Virology.86(7):1188-92. Doi:[10.1002/jmv.23922](https://doi.org/10.1002/jmv.23922)
- 2012 Alborzi A, Bamdad T, Ghaderi M, Salimi H, Davoodian P, Merat Sh, et al. *Comparison of HCV plus-and minus-strand RNA in PBMCs of responders and non-responders of chronically infected patients receiving ribavirin and interferon therapy*. Iranian Journal of Virology.6(2):18-25. Doi:[10.21859/isv.6.2.18](https://doi.org/10.21859/isv.6.2.18)
- 2011 **Pourhossein B**, Soleimanjahi H, Behzadian F, Khansarinejad B. *Loop-mediated isothermal amplification (LAMP) for the rapid diagnosis of herpes simplex virus type 1 (HSV-1)*. Iranian journal of virology.5(1):1-5. Doi:[10.21859/isv.5.1.1](https://doi.org/10.21859/isv.5.1.1).
- 2011 Nejati M, Soleimanjahi H, Roostae MH, **Pourhossein B**. *Comparison of passive haemagglutination and neutralization tests to demonstrate genital herpes virus (HSV 2) antibodies in pregnant women*. Iranian journal of virology.5(4):1-5. Doi:[10.21859/isv.5.4.1](https://doi.org/10.21859/isv.5.4.1)

Congresses/Abstracts:

- 2016 Elahe Naji , Jamileh Nowroozi , Alireza Gholami , **Behzad Pourhossein**, Maryam Fazeli: RNA detection of rabies virus in the brains of suspected rabid animals using RT-LAMP method compare to Real Time RT-PCR test as a quantitative molecular technique and DFA as a serologic method The 17 th International and Iranian Congress of Microbiology. Iran
- 2013 Mostafavi Ehsan, Esmaeili Saber, Esfandiari Behzad, **Pourhossein Behzad**, Fahimeh Bagheri Amiri, Seyed Mehdi Tabatabaei: *Seroprevalence of Brucellosis among butchers and slaughterhouse workers in south-eastern Iran*. 5 th National Iranian congress of Brucellosis, Shahid Beheshti University of medical Sciences. Iran.
- 2013 Mostafavi E., Esmaeili S., **Pourhossein B.**, Gouya M.M., Bagheri Amiri F., Banafshi O.: *Seroprevalence of Q fever and brucellosis in Kurdistan*. 14th international Iranian congress of microbiology. Iran.
- 2013 Mostafavi E, Esmaeili S, Naddaf SR, Gouya M.M, Shirzadi M.R, **Pourhossein B**, Esfandiari B, Yousefi Behzadi M, Bagheri Amiri F: *Seroprevalence of Brucellosis, Leptospirosis and Q fever among butchers and slaughterhouse workers in southeastern Iran in 2011*. The 21th Iranian congress on infectious disease and tropical medicine. Iran.
- 2013 Mostafavi E., Esfandiari B., Gouya M.M., Esmaeili S., Hanifi H., **Pourhossein B.**, Hossein Pour M., Rajabi M., Yousefi Behzadi M.: *A survey on rodent's fauna and their plague infection in Bandar Abbas, 2011*. The 21th Iranian congress on infectious disease and tropical medicine. Iran.

- 2012 Mostafavi E, ***Pourhossein B***, Azadmanesh K, Gooya M.M, Shirzadi MR, Chinikar S, Naddaf S, Esmaeili S: *A challenging case of cytomegalovirus infection in western Iran*. 6th Iranian congress of Virology. Iran.
- 2011 ***Behzad Pourhossein***, Maryam Fazeli: Diagnosis of HSV-1 infection in cerebrospinal fluid samples of encephalitis in infants using Loop-Mediated Isothermal Amplification and PCR.. Razavi International Neurotrauma Congress. Iran