

Curriculum Vitae

PERSONAL DATA

Name: Maryam Fazeli
Date of Birth: March 10, 1980
Place of Birth: Ahvaz / Iran
Gender: Female
Nationality: Iranian
Native Language: Persian
Marital Status: Married
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Education

- **September 2010- January 2015: Ph.D. Candidate**, Department of Virology, Faculty of Medicine, Modares University, Tehran, Iran.
- **Supervisors:** Dr. Hoorieh Soleimanjahi, Dr. Taravat Bamdad
- **Research Area:** Design and construction of nanolipoplex, therapeutic DNA vaccine, Diagnostic methods of Rabies virus.
- **Advanced course experiences during Ph.D.:** Advanced Medical Virology, Advanced Systematic Virology, Viral Pathogenesis, Molecular genetics, Advanced Molecular Biology, Advance genetic engineering, Advanced Immunology, Electron Microscopy.

Work Experience

- **September 2021-present:** Member of the Papillomavirus Task Force of the Medical Council, Tehran, Iran.
- **January 2023-present:** Head of the papillomavirus consultation, diagnosis and screening center, Tehran, Iran.
- **September 2022-present:** Faculty Member of ATMP Department, Breast Cancer Research Center, Motamed Cancer Institute, ACECR, P.O. BOX: 15179/64311, Tehran, Iran.
- **January 2021-October 2022:** Consultant of Papilloma Clinic of Lolagar Hospital, Tehran, Iran.
- **October 2020 – October 2021:** Corona Lab Supervisor of Hamadan Province, Department of Medical Virology, Faculty of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran.
- **April 2015 - October 2020:** Deputy Director of the National Center for Reference and Research on Rabies, Assistant professor, Pasteur Institute of Iran, WHO-CC for Reference and Research on Rabies, Tehran, Iran.
- Member of the National Committee for the Elimination of Rabies

- **Member of the Policy Committee of the International Papillomavirus Society (IPVs)**
- **Member of the Knowledge enrichment committee of Pasteur Institute of Iran For two years, from 2020**
- Responsible for quality control of rabies national reference laboratory
- **November 2011- September 2013:** Neuroscience Research Center, Khatam Hospital, Tehran, Iran.

Research and Technical Skills

1. Basic molecular biology and recombinant DNA technology (DNA/RNA extraction, PCR, RT-PCR).
2. Mammalian cell culture (adherent and suspension)
3. Virus Culture and virus Isolation
4. Humoral immune response analysis (ELISA, Immunofluorescence)
5. Molecular epidemiology and phylogenetic tree analysis
6. **Bioinformatics (DNA and protein alignments, Blast analysis, first structure, secondary structure, and spatial structure)**
7. Handling and working with Lab. animals (bleeding, injection, euthanasia)
8. Medical Lab. diagnosis tests (Serology, Microbiology)
9. Western-blot analysis
10. Construction of Liposome and Lipoplex
11. Traditional viral laboratory diagnostic methods (HA, HI, plaque assay, Shell vial, TCID50, RFFIT, and ...)
12. **Molecular docking simulation**
13. **CRISPR/Cas9** gene-editing technology

Research Interests

1. **CRISPR-Cas9**
2. **Next-Generation Sequencing using Pyrosequencing**
3. Bioinformatics
4. CRISPR-Cas9
5. Neuroscience
6. Oncolytic Virus Therapy
1. Emerging and re-emerging viruses
2. Diagnostic of Rabies
3. Molecular Epidemiology of Rabies
4. Viral Immunology
5. DNA vaccine
6. Therapeutic vaccine
7. Reverse genetic
8. Oncolytic Virotherapy

Teaching Experiences

1. Lecturer (2 hrs, with the title of “SPSS”) for MSc students and PhD of Industrial engineering, Modares University, Tehran, Iran, 2011.
2. Cell and Mol Biology. 2016. PhD students of Medical Biotechnology. Pasteur Institute of Iran
3. Cell and Mol Biology. 2016. PhD students of Pharma Biotechnology. Pasteur Institute of Iran

4. Virology, 2016. PhD by research students. Pasteur Institute of Iran
5. Virology, 2016. MSc of Microbiology. Pasteur Institute of Iran
6. Virology, 2015. MSc of Microbiology. Pasteur Institute of Iran
7. Protein engineering, 2017. PhD students of Medical Biotechnology. Pasteur Institute of Iran
8. Cell and Mol Biology. 2017. PhD students of Pharmaceutical Biotechnology. Pasteur Institute of Iran
9. Protein engineering, 2018. PhD students of Medical Biotechnology. Pasteur Institute of Iran
10. Cell and Mol Biology. 2018. PhD students of Pharmaceutical Biotechnology. Pasteur Institute of Iran
11. Virology, 2018. MSc of Microbiology. Pasteur Institute of Iran
12. Cell and Mol Biology. 2019. PhD students of Biotechnology. Pasteur Institute of Iran
13. Cell and Mol Biology. 2020. PhD students of Pharmaceutical Biotechnology. Pasteur Institute of Iran
14. Cell and Mol Biology. 2020. PhD students of Medical Biotechnology. Pasteur Institute of Iran
15. Cell and Mol Biology. 2021. PhD students of Medical Biotechnology. Pasteur Institute of Iran
16. Cell and Mol Biology. 2021. PhD students of Pharmaceutical Biotechnology. Pasteur Institute of Iran
17. Cell and Mol Biology. 2021. PhD students of Medical Biotechnology. Pasteur Institute of Iran
18. Cell and Mol Biology. 2021. PhD students of Pharmaceutical Biotechnology. Pasteur Institute of Iran

Language Skills

English

Computer Knowledge

1. Windows-based programs
2. Internet tools, PubMed and Blast search
- 3. Bioinformatics Programs**
4. Sequence alignment and phylogenetic tree analysis (MEGA6.0 software)
- 5. Excel and SPSS**
6. EndNote
7. Photoshop

PROJECTS

- 1. Disruption of E7 and E6 Gene Expression of HPV 16 Using CRISPR-Cas9 for the Treatment of Cervical Cancer in C57BL/6 Tumor Mouse Model**
- 2. Acquiring technical knowledge of viral therapy in the treatment of advanced cancers (Clinical Trial 1 and 2).** In progress
- 3. Design and synthesis of oncolytic adenovirus encoding HSP70 adjuvant fused to E6 and E7 antigenic sequences of human papillomavirus types 16 and 18 and investigating its therapeutic effect in cervical cancer tumor mouse model.** In progress

- 4. BALYRAN: Bat lyssaviruses in Iran: Detection, characterization and evolution dynamics of bat lyssaviruses in Hamedan province, Iran;** In collaboration with Institut Pasteur, Paris, French. In progress
5. Evaluation of the predictive value of serum amyloid A (SAA) level in the diagnosis of COVID-19. In progress
- 6. Investigation of the protective effect of rabies vaccine against COVID-19 disease in Tehran and Qom provinces.** In collaboration with Institut Pasteur, Tehran, Iran. In progress
7. Detection of SARS-Cov-2 virus RNA in respiratory tract specimens of patients suspected to COVID-19 disease using RT-LAMP method.
8. Association between influenza virus (IV-A, IV-B) and COVID-19 with atherosclerosis (atherosclerosis): A systematic review and meta-analysis.
9. Mass production of anti-rabies immunoglobulin conjugated with fluorescein isothiocyanate. In progress
10. Evaluation of the effect of NBS powder on immune system function and clinical manifestations in patients with COVID-19.
11. Study on the Molecular and Spatial Epidemiology of Rabies Virus in Iran in 2000-2019 in Comparison with Neighboring Countries in order to improve rabies surveillance system in Iran
12. Evaluation of cerebral expression level of pro-inflammatory and anti-inflammatory cytokines in rabies virus (CVS11 Strain) infected rat
13. Adjuvanticity evaluation of cerium nanoparticles in veterinary rabies vaccine
14. Evaluation of changes in catalase, nitric oxide, superoxide dismutase enzymes and NF-kB gene activity, oxidative stress responses in brain tissue of rabies infected mice
15. Examination of dexamethasone effect on apoptosis changes in mouse neuroblastoma cells (N2a) infected with a rabies virus in the substrate of neuroblastoma cell line
16. Determination of the state of knowledge and attitudes of the general population of selected provinces in the field of rabies prevention in year 2019
17. Designing, developing and evaluating educational software for detection, prevention and control of rabies based on cell phone with the aim of increasing awareness and knowledge of the social strata
18. Evaluation of Rabies Tissue Culture Infection Test (RTCIT) for diagnosis of rabies compare to Mouse Inoculation Test (MIT) in Fluorescent Antibody Test (FAT)- negative samples
19. Evaluation of time-course of synaptic transmission changes in the hippocampus of rats infected with the rabies virus
20. Evaluation of changes in catalase, nitric oxide, superoxide dismutase enzymes and NF-kB gene activity, as biomarkers of oxidative stress response in brain tissue of street rabies infected mice
21. Design and construction of uE6/uE7/uHSP70 chimeric gene expression plasmid and its use with expression plasmid containing Heat Shock Protein 70 (HSP70) as a therapeutic vaccine model in C57BL/6 tumor mouse

22. Using engineered stem cells as apoptosis genes and heat shock proteins (HSP) as a new method of treatment in a mouse model Spreading depression (SD). Neurosciense Research. Khatam Hospital.
23. 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 and WHO gold standard method. Pasteur Institute of Iran.
24. Qualitative detection rabies virus RNA in brains of suspected rabid tissue samples using two molecular methods, Real Time qRT-PCR and heminested RT-PCR compare to DFA.
25. Fractionation of the native Iranian snake venom (*Naja naja oxiana*) proteins by FPLC, and study of their effects on the rabies virus infectivity in cell culture model and evaluation of their mechanisms.
26. Cloning, expression and purification of rabies virus matrix protein (M) and nucleoprotein (N) in prokaryotic expression system.
27. Evaluation of therapeutic effects of expression plasmid containing rabies glycoprotein adjuvanted with cytokines genes, IL-18 and mda-7 / IL-24, on infectivity of rabies virus in mouse model.
28. Study on Rabies virus protein interactions and rat brain tissue using Far West 2DE Western blot / mass spectrometry.

PUBLICATIONS & PRESENTATIONS

1. In silico comparison between human and mouse adenovirus 5 receptor binding with adenovirus 5 fiber protein. Behzad Pourhossein, Zahra Talashan, Samira Sanami, Zahra Sadat Hashemi, Mahdieh Shokrollahi Barough, ***Maryam Fazeli****, Ramin Sarrami Forooshani. IPA. 2024. In press.
2. Expression analysis of the protein produced by a novel T-cell epitope-driven DNA vaccine with therapeutic effect against cervical cancer in eukaryotic cells. ***Maryam Fazeli***, Hesamoddin Ahmadi Afzadi, Zahra Ziafati Kafi, Zahra Sadat Hashemi, Behzad Pourhossein, Ramin Sarrami Forooshani. Journal of Clinical Medicine. 2024. In press.
3. Evaluation of HPV-Associated Health Indicators Between Low, Middle, and High-Income Countries: A Systematic Review. Azadeh Rasooli, ***Maryam Fazeli***, Behzad Pourhossein. 2024. In press
4. Autophagy and unfolded protein response induction: a crosstalk between street rabies virus and the host. Poorghobadi, S., Baesi, K., Gharibzadeh, S., ...***Fazeli, M.***, Sheikholeslami, F. Cell Stress and Chaperones, 2023, 28(4), pp. 423–428.
5. Ph. D. students' expectations from their supervisors: A sequential exploratory mixed methods study in Pasteur Institute of Iran. Rouzbeh Bashar, Reza Ahangari Cohan, Hadi Ranjbar, Masoumeh Arab, Maliheh Abedi, Sana Eybpoosh, ***Maryam Fazeli***, Kayhan Azadmanesh. International Journal of Travel Medicine and Global Health. 11(3):311-9.

6. The predictors of occupationally related injury in employees of Pasteur Institute of Iran. Bashar, KH Nayini, R Mehrdad, **M Fazeli**, M Arab, N Shabansalmani. 7(1): 17-23.
7. In silico design and immunoinformatics analysis of a universal multi-epitope vaccine against monkeypox virus. Samira Sanami; Shahin Nazarian; Sajjad Ahmad; Elham Raeisi; Muhammad Tahir ul Qamar; Shahram Tahmasebian; Hamidreza Pazoki-Toroudi; **Maryam Fazeli**. Travel Medicine and Infectious Disease. 2022. PLoS One 18 (5), e0286224.
8. Molecular Characteristics of Staphylococcus aureus Strains to Carry Panton-Valentine Leukocidin Genes Isolated from Hospitalized Patients in Tehran, Iran. Amini, C, **Fazeli, M**, Nasiri, M.J, ...Miri, M, Goudarzi, M. Archives of Clinical Infectious Diseases, 2023, 18(2), e135699.
9. A Notable Increase in Human Rabies Mortality After Ten Years in Iran in 2022: A Case Series Study. Shabansalmani, N., Pourhosein, B., Khosravy, M., ...**Fazeli, M.** Bashar, R. *Epidemiology and Health System Journal*, 2023, 10(4), pp. 187–190.
10. Characteristics of Streptococcus agalactiae causing urinary tract infections: Emergence of new sequence types ST74 and ST38 in Iran. Razeghi, M., Amini, C., **Fazeli, M.** Goudarzi, M. Iranian Journal of Basic Medical Sciences, 2023, 26, pp. 1416–1422.
11. A Review of Rabies Treatment Methods in Ancient Iran. Nazanin Shabansalmani¹, Behzad Pourhossein, Mohammad Sadeq Khosravy, Firouzeh Farahtaj, Seyed Ehsan Alavian, Rouzbeh Bashar, **Maryam Fazeli***. Journal of Virology and Viral Diseases. 2(3).
12. Association between Influenza and COVID-19 Viruses and the Risk of Atherosclerosis: Meta-Analysis Study and Systematic Review. Mahsa Jalili, Kourosh Sayehmiri, Nastaran Ansari, Behzad Pourhossein, **Maryam Fazeli** and Farid Azizi Jalilian. Advance in respiratory medicine. 2022; 90:338-348.
13. Prevalence of Helicobacter felis and helicobacter heilmannii and Co-infection With Helicobacter pylori in Gastric Biopsy Specimens in Endoscopy Ward of Shahid Beheshti Hospital, Hamadan City, Iran. Alireza Khalilian, Pezhman Karami, Somayeh Bakhtyari, Razieh Ezati, Sara Khosravi, Razieh Amini, Seyed aman Talebi, Fatemeh Torkaman Asadi, **Maryam Fazeli**, Somayeh Soleimani, Shahab Mahmoudvand, Hadi Ghasemi, Shadi Baniardalan, Farid Azizi Jalilian, International Journal of Medical Toxicology. 2022;12(2). Doi: 10.32598/ijmtfm.vi.33088
14. The Effect of Different Types of Climates on the Spread of COVID-19. Mohammadamin Farhangnasab, Behzad Pourhossein, Mahsa Golahdouz, Mahsa Taherizadeh, Sara Sharifi, Narges Rostami, Narjes Morovati Moez, Mehran Mahouti, **Maryam Fazeli**, Novelty in Biomedicine. 2022;10(1):76-88.
15. Preparation of Cerium Oxide Nanoparticles and Their Cytotoxicity Evaluation In vitro and In vivo. Milad Zandi, **Maryam Fazeli**, Razieh Bigdeli, Vahid Asgary, Reza Ahangari Cohan, Rouzbeh

- Bashar , Shohreh Shahmahmoodi. International Journal of Medical Toxicology and Forensic Medicine, Vol. 12 No. 1 (2022), Page 35374.
16. An Overview of Antiviral Properties of Bacteriophages with Emphasis on the Treatment of COVID-19 Infection. Mahsa Jalili, Nastaran Ansari, Behzad Pourhossein, **Maryam Fazeli**, Farid Azizi Jalilian Infect Disord Drug Targets. 2022 Jan 24;e240122200472.
 17. Mupirocin-Resistant Staphylococcus aureus in Iran: A Biofilm Production and Genetic Characteristics. Samira Zamani , Anis Mohammadi, Bahareh Hajikhani, Parnaz Abiri, **Maryam Fazeli**, Mohammad Javad Nasiri, Masoud Dadashi , Mehdi Goudarzi , Mehrdad Haghghi. BioMed Research International. 2022; Volume 2022, Article ID 7408029, 9 pages.
 18. The effects of nutrition bio-shield superfood powder on immune system function: A clinical trial study among patients with COVID-19., **Fazeli M**,Frontiers in immunology. 2022; Frontiers in Immunology, 2022, 13, 919402.
 19. Nehzati AslA, RasooliA, **FazeliM**, SaffarpourM.The Effect of Rosuvastatin on the Liver Enzyme of NMRI Mouse.Novel Biomed.2022;10(2):101-6.
 20. The National Center for Reference & Research on Rabies. Pasteur Institute of Iran: An Unforgettable Name in the Health History and Control of Rabies in the World. Salmani N, **Fazeli M**, Bashar R. Med Hist Res. 2021;10(4):205-14.
 21. First Molecular Detection of Saffold Virus in Children with Acute Gastroenteritis in Iran. Tabasom Sadat Yaghoobi, Hamed Bahrami, Naser Harzandi, Ava Asadi, Mitra Shareghi, Mohammad Hasan Firouzjani, Abas Akbari, **Maryam Fazeli**, Seyed Dawood Mousavi Nasab, Nasrin Majidi Gharenaz, Reza Arjmand, Mostafa Ghaderi. Novelty in Biomedicine Journal. 2021;9(1):11-6.
 22. Investigation of the frequency of rabies in EMRO countries: A review study. Saman Pazira; Mahsa Golahdouz; Mahsa Taherizadeh; Behzad Pourhossein; Seyed Masoud Hosseini; Farid Azizi Jalilian; Rouzbeh Bashar; **Maryam Fazeli***. Journal of Clinical Images and Medical Case Reports. 2021
 23. High prevalence of spa type t790, coa type III and the emergence of spa types t309, t571 and t127 in community-acquired methicillin-susceptible Staphylococcus aureus isolated from wound, Tehran- Iran. Masoumeh Navidinia, Anis Mohammadi, Samira Ghaderi Afshari, **Maryam Fazeli**, Ramin Pouriran, Mehdi Goudarzi. Gene Report. 2021; <https://doi.org/10.1016/j.genrep.2021.101349>
 24. Positive Result for SARS-CoV-2 RNA Test after a Long Time for the Patient with COVID-19 even after Discharge from the Hospital. **Maryam Fazeli**, Saman Pazira, Behzad Pourhossein, Azadeh Rasooli, Nastaran Ansari, Farid Azizi Jalilian. Novelty in Biomedicine Journal.

2021;9(3):152-5.

25. The role of assaying recombinant Beclin1 by In vitro and In vivo tests. Homeira Prizad, Farzaneh Sheikholeslami, Minoos Mahmoudi, ***Maryam Fazeli***, ZohrehFadajan. Gene Report. 2020; Volume 24, September 2021, 101221. <https://doi.org/10.1016/j.genrep.2021.101221>

26. Autophagy Role as a Double-Edged Sword in Anesthesiology and Critical Care. Milad Zandi, ***Maryam Fazeli***, Parnian Ghadimi, Saber Soltani, Farid Azizi Jalilian, Aryan Banai Shahani, Emad Behboudi, Behzad Pourhossein. Journal of Cellular & Molecular Anesthesia (JCMA). 2021;6(1):39-49. <https://doi.org/10.22037/jcma.v6i1.32381>

27. Molecular characterization of invasive Staphylococcus aureus strains isolated from patients with diabetes in Iran: USA300 emerges as the major type. Zahra Tayebi, ***Maryam Fazeli***, Ali Hashemi, Saeed Abdi, Masoud Dadashi, Mohammad Javad Nasiri, Mehdi Goudarzi. Gene Report. Volume 87, January 2021, 104679. <https://doi.org/10.1016/j.meegid.2020.104679>

28. Case Report: Investigating Possible Etiologies of Post- Exposure Prophylaxis Failure and Deaths From Rabies Infection: Case Reports. Azadeh Rasooli, Behzad Pourhossein, Rouzbeh Bashar, Mohammad Reza Shirzadi, Behzad Amiri, Elmira Vadaye Kheiri, Babak Mostafazadeh, ***Maryam Fazeli****. International Journal of Medical Toxicology and Forensic Medicine, 2020; 10(3):27378 <https://doi.org/10.32598/ijmtfm.v10i3.27378>

29. Characteristics of methicillin-resistant Staphylococcus aureus carrying the toxic shock syndrome toxin gene: high prevalence of clonal complex 22 strains and the emergence of new spa types t223 and t605 in Iran. M. Goudarzi , M. Razeghi, A. Salimi Chirani , ***M. Fazeli***, Z. Tayebi and R. Pouriran. New Microbes and New Infections, 2020.

30. Evaluation of Changes in Biomarkers of Oxidative Stress Response in the Brain of Mice Infected with Street Rabies Virus. F. Shirghasemi Alalan, R. Hajihosseini, A. Rasooli, ***M. Fazeli****. J Babol Univ Med Sci. 2021;23:38-45.

31. Emergence and spread of coagulase type III and staphylococcal cassette chromosome mec type IV among mupirocin-resistant Staphylococcus aureus isolated from wound infections. Mirmohammad Miri, ***Maryam Fazeli***, Anahita Amirpour, Mohammad Javad Nasiri, Ramin Pouriran, Mehdi Goudarzi. Gene Report. Volume 21, December 2020, 100858. <https://doi.org/10.1016/j.genrep.2020.100858>

32. Genetic analysis of methicillin-susceptible Staphylococcus aureus clinical isolates: High prevalence of multidrug-resistant ST239 with strong biofilm-production ability. Hossein Goudarzi, Mehdi Goudarzi, Fattaneh Sabzehali, Maryam Fazeli, Alireza Salimi Chirani. 2020. <https://doi.org/10.1002/jcla.23494>

33. Expression of the rabies virus nucleoprotein and matrix protein in a prokaryotic system at high-levels: an efficacious production method. Zohreh Fadajan, **Maryam Fazeli**^C. Gene Report. 2020; 21. <https://doi.org/10.1016/j.genrep.2020.100799>.
34. Insights into the SARS-CoV2 Outbreak; the Great Global Challenge: A Mini Review. Behzad Pourhossein, **Maryam Fazeli**^{*}. Journal of Cellular & Molecular Anesthesia (JCMA). 2020;5(1):23-6.
35. Characteristics of community-acquired methicillin-resistant Staphylococcus aureus associated with wound infections in Tehran, Iran: High prevalence of PVL+ t008 and the emergence of new spa types t657, t5348, and t437 in Iran. Mehdi Goudarzia, Zahra Tayebib, Masoud Dadashic , Mirmohammad Mirid , Anahita Amirpoure , **Maryam Fazeli**.Gene rept. 2020. <https://doi.org/10.1016/j.genrep.2020.100603>
36. Different Rabies Outcomes in a Family Bitten by a Rabid Dog in Iran: A Post Exposure Prophylaxis (PEP) Failure report. Sara Nouri Basirat, Behzad Pourhossein, Nasim Niknam, Rouzbeh Bashar, Mojtaba Sanji Rafsanjani, Mohammad Reza Shirzadi, Zeinab Seyedkhan, **Maryam Fazeli**^{*}. Indian Journal of Medical Research. 2020. Accepted.
37. Genetic analysis of methicillin-susceptible Staphylococcus aureus clinical isolates: High prevalence of multidrug-resistant ST239 with strong biofilm-production ability. Hossein Goudarzi, Mehdi Goudarzi, Fattaneh Sabzehali, **Maryam Fazeli**, Alireza Salimi Chirani. J Clin Lab Ana. 2020;1-9. Doi: [10.1002/jcla.23494](https://doi.org/10.1002/jcla.23494).
38. Prevalence, Genetic Diversity, and Temporary Shifts of Inducible Clindamycin Resistance Staphylococcus aureus Clones in Tehran, Iran: A Molecular–Epidemiological Analysis From 2013 to 2018. Ilana L B C Camargo, Kiiyukia Matthews Ciira, Artur J Sabat, ..., **Maryam Fazeli**. Frontiers in Microbiology. 2020;11. Doi: doi.org/10.3389/fmicb.2020.00663
39. Insights into the SARS-CoV-2 Outbreak; the Great Global Challenge: A Mini Review. Behzad Pourhossein, Ali Dabbagh, **Maryam Fazeli**^{*}. Journal of Cellular & Molecular Anesthesia (JCMA). 2020;5(1):23-26.
40. Tricistronic Plasmid Expressing the T7 RNA Polymerase and Measles Virus N and P Proteins for Rescue of Measles Virus AIK-C Strain. Seyed AmirHosein Hoseini, Mostafa Ghaderi*, Alireza Gholami, Seyed Dawood Mousavi Nasab, Payam Purnoor, MohammadHassan Firouzjani, Nasrin Gharenaz, Ava Asadi, **Maryam Fazeli**, Nayebali Ahmadi. Archives of Pediatric Infectious Diseases. 2020;8(2).
41. Molecular Characterization, Drug Resistance and Virulence Analysis of Constitutive and Inducible Clindamycin Resistance Staphylococcus aureus Strains Recovered from Clinical Samples, Tehran – Iran. Mehdi Goudarzi, Zahra Tayebi, **Maryam Fazeli**, Mirmohammad Miri,

Mohammad Javad Nasiri. Infection and Drug Resistance. 2020;13:1155-62.

42. A phylogenetic study of new rabies virus strains in different regions of Iran. Fatemeh Hosseini Heydarabadi, Kazem Baessi, Rouzbeh Bashar, Maryam Fazeli, Farzaneh Sheikholeslami. Virus gene. 2020;56(3):361-8.

43. Genetic diversity and biofilm formation analysis of Staphylococcus aureus causing urinary tract infections in Tehran, Iran. Goudarzi M, Mohammadi A, Amirpour A, Fazeli M, Nasiri MJ, Hashemi A, et al. The Journal of Infection in Developing Countries. 2019;13(09):777-85.

44. Comparison of Reverse Transcription Loop-Mediated Isothermal Amplification Method with SYBR Green Real-Time RT-PCR and Direct Fluorescent Antibody Test for diagnosis of rabies. Naji E, Fadajan Z, Afshar D, Fazeli M*. Japanese journal of infectious diseases. 2019:JJID. 2019.009

45. Distribution of SCCmec types, tetracycline and aminoglycoside resistance genes in hospital-associated methicillin-resistant Staphylococcus aureus strains. Goudarzi M, Razeghi M, Dadashi M, Miri M, Hashemi A, Amirpour A, Fazeli M. Gene Reports. 2019;16:100454.

46. Genetic Variability of Methicillin Resistant Staphylococcus Aureus Strains Isolated from Burns Patients. Goudarzi M, Kobayashi N, Hashemi A, Fazeli M, Navidinia M. Osong public health and research perspectives. 2019;10(3):170.

47. Genetic Diversity Analysis of Mupirocin-Resistant *Staphylococcus aureus* Clinical Isolates in Tehran Hospitals, Iran. Mehdi Goudarzi, Maryam Fazeli, Gita Eslami, Ramin Pouriran. MICROBIAL DRUG RESISTANCE. 2018. DOI: 10.1089/mdr.2018.0146.

48. Genetic Diversity Analysis of Methicillin-resistant Staphylococcus aureus Strains Isolated from Intensive Care Unit in Iran. Mehdi Goudarzi, Maryam Fazeli, Gita Eslami, Ramin Pouriran, Bahareh Hajikhani and Masoud Dadash. Oman Medical Journal [2019], Vol. 34, No. 2: 118-125.

49. Genotype Distribution of Panton-Valentine Leukocidin (PVL)-Positive Staphylococcus aureus Strains Isolated from Wound-Related Infections: a Three-Year Multi-Center Study in Tehran, Iran. Goudarzi M, Fazeli M, Pouriran R, Eslami G. Japanese journal of infectious diseases. 2019:JJID. 2018.406.

50. Ante-mortem Diagnosis of Human Rabies Cases Using SYBR Green Real-Time PCR. Khashei, Behnoush; Baferani, Masoumeh Arab; Bashar, Rouzbeh; Gholami, Alireza; Jahanbakhsh, Fatemeh; Shirzadi, Mohammad Reza; Fazeli, Maryam. Archives of Iranian Medicine (AIM) . 2018, Vol. 21 Issue 10, p473-477. 5p.

51. Genetic Variability and Integron Occurrence in Methicillin Resistant Staphylococcus aureus Strains Recovered from Patients with Urinary Tract Infection. Goudarzi M, Mohammadi

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52. Natural Infection with Rabies Virus: A Histopathological and Immunohistochemical Study of Human Brains. Farahtaj F, Alizadeh L, Gholami A, Tahamtan A, Shirian S, Fazeli M, Nejad ASM, Gorji A, Niknam HM, Ghaemi A. Osong Public Health Res Perspect. 2019;10(1):6-11. DOI: 10.24171/j.phrp.2019.10.1.03.
53. Development and validation of Molecular technique, Heminested RT-PCR and qRT-PCR assays, for comprehensive detection of rabies virus in the suspected rabid brain tissues. Fereshteh Amiri, Azadeh Rasouli, Iman Salahshourifar, Rouzbeh Bashar, Masoumeh Arab Baferani, Maryam Fazeli*. Archive of Clinical Infectious Diseases. 2018. 14(2):e85790. DOI: 10.5812/archcid.85790
54. Molecular characterization of vancomycin-resistant Staphylococcus aureus strains isolated from clinical samples: A three year study in Tehran, Iran. Shekarabi M, Hajikhani B, Salimi Chirani A, Fazeli M, Goudarzi M. PLoS ONE 12(8): e0183607. <https://doi.org/10.1371/journal.pone.0183607>.
55. Design and Validation of a Persian Knowledge, Attitude, and Practice Questionnaire for Rabies (PKAP-Rabies) in the General Population of Iran. Maryam Fazeli, Mahsa Golahdouz, Rouzbeh Bashar, Masoumeh Arab Baferani, Amin Doosti-Irani, Behzad Pourhossein, Sana Eybpoosh. J Med Microbiol Infec Dis, 2018, 6 (2-3): 67-71.
56. Evaluation of therapeutic potency of human papillomavirus-16 E7 DNA vaccine alone and with interleukin-18 as a genetic adjuvant. Pourhossein, Behzad; Ghaemi, Amir; Fazeli, Maryam; Azadmanesh, Kayhan; Mahmoodi, Mahmood; Mirshafiey, Abbas; Shahmahmoodi, Shohreh. Sci Med. 2018;28(3):ID30555. DOI: 10.15448/1980-6108.2018.3.30555
57. Applying Time Series Sir Model To Investigate Epidemiology And Calculate Minimum Vaccination Coverage Against Seamless In Iran. S. Falahi, I. Pakzad, A. Kenar Koohi, H. Mohammadipour, Z. Kohzadi, T. Hashempour, B. Dehghani, M. Fazeli. Journal of Fundamental and Applied Sciences. 2017. <http://www.jfas.info/index.php/jfas/article/view/2813>
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II) Presentations in International Meetings:

- 1.** Construction of a recombinant bacmid containing papillomavirus type16-L1 gene. 2008. 18th ECCMID. Poster.
- 2.** Mesenchymal stem cells for epilepsy therapy. 2011. Razavi International Neurotrauma Congress. Poster.
- 3.** Diagnosis of HSV-1 infection in cerebrospinal fluid samples of encephalitis in infants using Loop-Mediated Isothermal Amplification and PCR. 2011. Razavi International Neurotrauma Congress. Poster
- 4.** 'Further Stimulation of Cellular Immune system arm through Association of HPV-16 E6, E7 and L1 Genes in order to Produce more Effective Therapeutic DNA Vaccines in Cervical Cancer Model. 2014. 15th International Iranian Congress of Microbiology. Oral
- 5.** Design and Construction of Nanolipoplex Containing uE6/uE7/uL1 Chimeric Gene Plasmid as a Therapeutic Vaccine Model. 2015. 7th Iranian Congress of Virology. Oral
- 6.** Design, construction and expression of recombinant vector containing the rabies virus nucleoprotein in prokaryotic expression system. Zohreh Fadajan, Gholam Reza Javadi, Fatah Sotoodehnejadnematalahi, Alireza Gholami, **Maryam Fazeli**. International Congress of Microbiology. 2016. <http://health.barakatks.com/seminar-article/363530/design-construction->

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III) Presentations in National Meetings:

1. 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 Elahe Naji , Jamileh Nowroozi , Alireza Gholami , Behzad Pourhossein , Maryam Fazeli. The 17 th International and Iranian Congress of Microbiology. 23 till 25 August 2016 , Tehran - Iran
2. Design, in prokaryotic expression system. Zohreh Fadajan , Gholam Reza Javadi , Fatah Sotoodehnejadnematalahi , Alireza Gholami , Maryam Fazeli. International Congress of Microbiology. 2016. <http://health.barakatks.com/seminar-article/363530/design-construction-and-expression-of-recombinant-vector-containing-the-rabies-virus-nucleoprotein-i>
3. Tc-1, the tumor cell line, as comprehensive tumoric models for evaluation of cervical cancer vaccines. 2008. 4th Iranian Congress of students of medical science, Birjand. Oral
4. Enhancement of therapeutic DNA Vaccine Potency against Human Papillomavirus 16 tumor by Coadministration of a HPV-16 E7 and L1 genes. 2009. 5th Iranian Congress of Virology & 1st Congress of Vaccine. Oral
5. Construction and expression of a recombinant bacmid containing papillomavirus type16-L1 gene in Sf-9/insect cells. 2009. 5th Iranian Congress of Virology & 1st Congress of Vaccine. Oral
6. Application of Passive Haemagglutination (PHA) assay in comparison to serum neutralization test (SNT) for determination of the prevalence of Genital Herpes Virus (HSV-2) antibodies in Tehranian Pregnant Women. Clinical Microbiology Shiraz. 2011. Poster
7. Seroprevalence of Cytomegalovirus infection in pregnant Women referred to a health care center of Khorramabad. 2012. 6th Iranian Congress of Virology. Poster

BOOK TRANSLATION

1. Preparation and development of educational pamphlets on Papillomavirus for the general public

2. Translation of Medical Microbiology, Murray, Eighth Edition
3. Basic Method Validation; by James Patricia L. Barry BS and O Westgard

The National Patents

- Instruction of a new kit for diagnosing 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

- The best offer of the country in 2018, MOH

International Journal Theqncial manager, Reviewer or Editor

- Journal of Clinical and Medical Images, Case Reports
- Applied Microbiology and Biotechnology
- Iranian Journal of Virology
- Iranian Journal of Microbiology
- Iranian Journal of Cancer Prevention
- Iranian Journal of Novelty Biomedicine
- Herbal Medicine Journal
- Regeneration, Reconstruction, and Restoration
- Archives of Medical Laboratory Sciences
- Journal of Cellular & Molecular Anesthesia
- Vaccine Research Journal

Workshop Holding

- **International Workshop of Rabies Surveillance; Cambodia; 2015. Acceptance certificate from the University of Lausanne, Switzerland**
- **International Workshop of Rabies Surveillance; Iran, Amol; 2017. speaker**
- Theoretical and Practical Workshop Introduction to Virus Proliferation and Identification Methods; 2017. **speaker**
- Prevention of rabies and animal bites workshop; 2017, 2018 and 2019. **speaker**
- Theory and Practical Workshop on Viral Titration, Plaque Assay and Direct Immunofluorescence Methods; 2017, 2018 and 2019. **speaker**
- Theory and Practical Workshop on Cell culture and transfection; 2016, 2017, 2018 and 2019. **speaker**
- Animal Laboratory Workshop; Shahid Beheshti University of Medical Sciences; 2022. **Speaker**
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