

Curriculum Vitae

Dr. Ebrahim Faghihloo

Associate Professor of Medical Virology
Department of Microbiology, School of Medicine
Shahid Beheshti University of Medical Sciences

PERSONAL INFORMATION:

Name: Ebrahim Faghihloo

Nationality: Iranian

Address: Department of Medical Microbiology, School of Medicine,
Shahid Beheshti University of Medical Sciences, Tehran, Iran.

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UNIVERSITY EDUCATIONS:

- Ph.D. in Medical Virology, Department of Virology, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran, 2010-2015.
- M.Sc. in Medical Virology, Department of Virology, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran, 2007-2010.

AWARDS:

- Being the **top Ph.D. student** in First Avicenna Student Festival, Tehran University of Medical Sciences (2014).
- Ranking the **first in PhD** entrance national exam of Medical Virology (2010).
- Ranking the **fourth in M.Sc.** entrance national exam of Medical Virology (2007).

H-Index:

Google Scholar: 24

Scopus: 21

PUBLICATIONS:

1. Human Viral Oncoproteins and Ubiquitin–Proteasome System. ZR Atani, SS Hosseini, H Goudarzi, **E Faghihloo**. Global Medical Genetics 11 (04), 285-296
2. The evaluation of human endogenous retroviral env expression in normal and cancerous tissues of the breast. S Tavakolian, H Goudarzi, **E Faghihloo** Journal of Research in Medical Sciences
3. Role of the VEGF in virus-associated cancers. S Tavakolian, SP Tabaeian, A Namazi, **E Faghihloo**, A Akbari. Reviews in Medical Virology 34 (1), e2493
4. The prevalence of varicella zoster virus, herpes simplex virus type 2, and human papillomavirus in breast cancerous tissues and their adjacent ones in Iran. S Tavakolian, **E Faghihloo**. Journal of Research in Medical Sciences 28 (1), 65
5. Low presence of papillomavirus and its lack of correlation with clinicopathological factors in breast cancer: a case control study. M Makvandi, M Rashno, **E Faghihloo**, S Bagheri, S Hesam, H Mirzaei, Iranian Journal of Microbiology 15 (4), 585
6. Human Respiratory Syncytial Virus and Coronavirus Rates in Iranian Elderly Patients More than 60 Years Old with Acute Respiratory Symptoms S Tavakolian, H Goudarzi, IA Darazam, **E Faghihloo**. Advanced Biomedical Research 12 (1), 180
7. Detection of HSV-1, HSV-2 and VZV isolated from cerebrospinal fluid samples of children suspected to encephalitis. G Dehghan, H Goudarzi, S Saket, MK Aghdam, MG Mofrad, **E Faghihloo**. Advanced Biomedical Research 12 (1), 141
8. The evaluation of HERV-K np9, rec, gag expression in isolated human peripheral blood mononuclear cell (PBMC) of gastric and colon cancer. S Tavakolian, M Iranshahi, **E Faghihloo**. Advanced Biomedical Research 12 (1), 131

9. Detection of major human herpesviruses in Iranian patients with suspected encephalitis using multiplex polymerase chain reaction. M Golrokh Mofrad, S Samie, R Lak, **E Faghihloo**. European Neurology 85 (2), 142-147
10. Detection of human papillomavirus genotypes, herpes simplex, varicella zoster and cytomegalovirus in breast cancer patients M Golrokh Mofrad, ZA Sadigh, S Ainechi, **E Faghihloo**. Virology Journal 18 (1), 1-10
11. Analysing the HERV-K env, np9, rec and gag expression in cervical tissues. S Tavakolian, H Goudarzi, A Moridi, **E Faghihloo**. New Microbes and New Infections 44, 100936
12. Evaluation of association between the frequency of Epstein–Barr virus and cytomegalovirus infection in healthy and tumoral breast samples. F Torfi, F Kamani, S Tavakolian, MR Hosseini, NSB Nazar, S Alvandi, **E Faghihloo**. Gene Reports 24, 101208
13. The evaluation of Human papilloma virus and human herpes viruses (EBV, CMV, VZV HSV-1 and HSV-2) in semen samples S Tavakolian, H Goudarzi, H Nazarian, P Raee, S Niakan, **E Faghihloo**. Andrologia 53 (6), e14051
14. Prevalence of HSV, Varicella-Zoster, CMV, EBV and HPV in the oral cavity and the larynx carcinoma in Iran F Dayyani, S Tavakolian, H Goudarzi, FY Biucki, **E Faghihloo**. Future Virology 16 (2), 141-151
15. The role of viruses in adenocarcinoma development. M Nakhaie, J Charostad, GA Kaydani, **E Faghihloo**. Infection, Genetics and Evolution 86, 104603
16. The interplay between EBV and KSHV viral products and NF-κB pathway in oncogenesis. J Charostad, M Nakhaie, A Dehghani, **E Faghihloo**. Infectious agents and cancer 15, 1-12
17. Evaluating the expression level of miR-9-5p and miR-192-5p in gastrointestinal cancer: introducing novel screening biomarkers for patients S Tavakolian, H Goudarzi, **E Faghihloo**. BMC Research Notes 13 (1), 1-6

18. Comparison of Snail1, ZEB1, E-Cadherin Expression Levels in HPV-Induced Cervical Cancer. M Farzanehpour, **E Faghihloo**, V Salimi, S Jalilvand, S Akhavan, Iranian Journal of Public Health 49 (11), 2179
19. Evaluation of genotypes of human papilloma virus in cervical cancer samples collected from 2010 to 2020. Kakavandi, S., Goudarzi, H., **Faghihloo, E**. Gene Reports, 2022.
20. Transcriptional regulation of E-cadherin, Snail, ZEB 1, DNMT1, DNMT 3A and DNMT 3B expression in normal and breast cancer tissues. Tavakolian SH, Goudarzi H, **Faghihloo E**. Acta Biochimica Polonica. 2019.
21. Evaluating the expression level of HERV-K env, np9, rec and gag in breast tissue. Tavakolian SH, Goudarzi H, **Faghihloo E**. Infectious Agents and Cancer. 2019.
22. Histone deacetylases in virus-associated cancers. Mirzaei H, Ghorbani S, Khanizadeh S, Namdari H, **Faghihloo E***, Abolfazl Akbari. Rev Med Virol. 2019.
23. The evaluation of microRNA-9 and -192 expressions as an alarming biomarker in patients, suffering from breast cancer. Tavakolian SH, Goudarzi H, Torfi F, **Faghihloo E***. Biomedical Reports. 2019.
24. Prevalence of Human Papilloma Virus in Patients with Colorectal Cancer: A Systematic Review and Meta-Analysis. Dadashi M, Tavakolian SH, **Faghihloo E***. International Journal of Enteric Pathogens. 2019.
25. P16INK4 immunochemistry as gold standard for cervical cancer and precursor lesions screening. Farzanehpour M, Muhammdnejad A, Mozhgani SH, Jalilvand S, **Faghihloo E**, Akhavan S, Salimi V, Azad TM. Iranian Journal of Public Health. 2019.
26. LPS Induces microRNAs -9, -192, and -205 Overexpression in Colorectal Cell Lines SW480, HCT116. Tavakolian SH, Goudarzi H, **Faghihloo E***. Middle East Journal of Cancer; January 2020; 11(1): 70-77.

27. Prevalence of Epstein–Barr virus (EBV) in Iranian Breast Carcinoma patients. Golrokh Mofrad M, Kazeminezhad B, **Faghihloo E***. Asian Pacific Journal of Cancer Prevention. 2019.
28. Serum and tissue miRNAs: potential biomarkers for the diagnosis of cervical cancer. Farzanehpour M, Mozhgani SH, Jalilvand S, **Faghihloo E**, Akhavan S, Salimi V, Azad TM. Virol J. 2019 Oct 7; 16(1):116.
29. Aneuploidy and Oncoviruses. Taheri F, Goudarzi H, **Faghihloo E***. Rev Med Virol. 2019.
30. Transcriptional regulation of epithelial to mesenchymal transition related genes by lipopolysaccharide in human cervical cancer cell line HeLa. Tavakolian SH, Goudarzi H, Eslami G, **Faghihloo E***.Asian Pac J Cancer Prev. 2019 Aug 1;20(8):2455-2461.
31. Exploiting yoeB-yefM toxin-antitoxin system of Streptococcus pneumoniae on the selective killing of miR-21 overexpressing breast cancer cell line (MCF-7). Houri H, Ghalavand Z, **Faghihloo E**, Fallah F, Mohammadi-Yeganeh S. J Cell Physiol. 2019 Sep 20.
32. Molecular characterization of the glycoprotein and fusion protein in human respiratory syncytial virus subgroup A: Emergence of ON-1 genotype in Iran. Malekshahi SS, Razaghipour S, Samieipoor Y, Hashemi FB, Manesh AAR, Izadi A, **Faghihloo E**, Ghavami N, Mokhtari-Azad T, Salimi V.Infect Genet Evol. 2019 Jul; 71:166-178.
33. Cytotoxic activity of Rosa damascene mill, Alliumsativum, Allium hirtifolium Boiss, and Prosopis farcta extracts on human cervical carcinoma cell line. E Khadem, **E Faghihloo**, T Mokhtari-Azad, M Kamalinejad, M Norouzi. Novelty in Biomedicine 7 (3).
34. The roles of FOX proteins in virus-associated cancers. Ramezani A, Nikravesh H, **Faghihloo E***. J Cell Physiol. 2019 Apr; 234(4):3347-3361.
35. Viral infections in ICU patients. Taghizadeh Maleki D, Goudarzi AM, Golrokh Mofrad AM, **Faghihloo E***. Novelty in Biomedicine 7 (2), 24501-24501

36. DNA methyltransferases in virus-associated cancers. Charostad J, Astani A, Goudarzi H, **Faghihloo E***. Rev Med Virol. 2018 Dec 3:e2022.
37. The role of Nrf2 transcription factor in viral infection. Ramezani A, Nahad MP, **Faghihloo E***. J Cell Biochem. 2018 Aug; 119(8):6366-6382.
38. Oxamflatin Induces E-cadherin Expression in HeLa Cervical Carcinoma Cells. **Faghihloo E***, Hakemi Vala M, Eslami G, Goudarzi H. Arch Clin Infect Dis. 2018; 13(5):e66977.
39. Silibinin upregulates E-cadherin expression in MKN-45 human gastric cancer cells. **Faghihloo E***, Mirzaei H, Akbari A, Goudarzi H. Research Journal of Pharmacognosy (RJP) 5(3), 2018: 41-46.
40. The Role of MicroRNA Signature as Diagnostic Biomarkers in Different Clinical Stages of Colorectal Cancer. Eslamizadeh S, Heidari M, Agah S, **Faghihloo E**, Ghazi H, Mirzaei A, Akbari A. Cell J. 2018 Jul;20(2):220-230.
41. Viruses as key modulators of the TGF- β pathway; a double-edged sword involved in cancer. Mirzaei H, **Faghihloo E***. Rev Med Virol. 2018 Mar; 28(2).
42. Snail1 as a potential biomarker in manifestation of HPV carcinogenesis. Farzanehpour M, **Faghihloo E**, Salimi V, Jalilvand S, Akhavan S, Muhammdnejad A, Mahmoudi M, Emami Rzavi AN, Kakavandi E Azad TM. Transylvanian Review.2018.
43. Role of viruses in gastrointestinal cancer. Mirzaei H, Goudarzi H, Eslami G, **Faghihloo E***. J Cell Physiol. 2018 May; 233(5):4000-4014.
44. Anoikis resistance and oncoviruses. Kakavandi E, Shahbahrami R, Goudarzi H, Eslami G, **Faghihloo E***. J Cell Biochem. 2018 Mar; 119(3):2484-2491.

45. Prevalence of human respiratory syncytial virus in Iran: a systematic review and meta-analysis. Dadashi M, Goudarzi H, Owlia P, **Faghihloo E***. Future Virol. 2018, 13, 1.
46. Relationship of human herpes virus 6 and multiple sclerosis: A systematic review and meta-analysis. Pormohammad A, Azimi T, Falah F, **Faghihloo E***. J Cell Physiol. 2018 Apr;233(4):2850-2862.
47. The Inhibitory Effects of Lactobacillus Reuteri's Cell Wall on Cell Proliferation in the HCT-116 Colorectal Cancer Cell Line. Rafiei Atani Z, **Faghihloo E**, Ghalavand Z, Eslami G. Novelty in Biomedicine, 2018, 6,3,126-130.
48. Homeodomain Protein Transforming Growth Factor Beta-Induced Factor 2 Like, X-Linked Function in Colon Adenocarcinoma Cells. Akbari A, Agah S, Heidari M, Mobini GR, **Faghihloo E**, Sarveazad A, Mirzaei A. Asian Pac J Cancer Prev. 2017 Aug 27;(18):2101-2108.
49. Detection of Human Papilloma Virus Type 16 in Epithelial Ovarian Tumors Samples. Dadashi M, Eslami G, **Faghihloo E**, Pourmohammad A, Hosseini J, Taheripanah R, Arab-Mazar Z. Arch Clin Infect Dis. 2017 January; 12(1):e39666.
50. Molecular Epidemiology of Human Respiratory Syncytial Virus in Iranian ≥ 60 Years Old Hospitalized Patients with Acute Respiratory Symptoms. Arjeyni Y, **Faghihloo E**, Samimi Rad K, Salimi V, Mahmoudi M, Mokhtari-Azad T. Arch Iran Med. 2017 Jun;20(6):368-375.
51. Evaluation of Differential Expression of MiR-18a and MiR-34a in Plasma Samples of Colorectal Cancer Patients. Eslamizadeh S, Heidari M, Ghazi H, **Faghihloo E**, Akbari A. Journal of Knowledge & Health, 2017. 12.2.
52. Transcriptional Suppression of E-Cadherin by HPV-16 E6 and E7 Oncogenes is Independent of Hypermethylation of E -Cadherin Promoter. **Faghihloo E**, Sadeghizadeh M, Shahmahmoodi S, Mokhtari-Azad T. Iran Red Crescent Med J. 2017 February; 19(2):e30434.
53. Viral Respiratory Infections in Patients with Cancer. Arjeyni Y, Goudarzi H, Eslami G, **Faghihloo E**. Iran J Cancer Prev. 2017 February; 10(2):e8084.

54. Evaluation of the expression level of 12/15 lipoxygenase and the related inflammatory factors (CCL5, CCL3) in respiratory syncytial virus infection in mice model. Salimi V, Ramezani A, Mirzaei H, Tahamtan A, **Faghihloo E**, Rezaei F, Naseri M, Bont L, Mokhtari-Azad T, Tavakoli-Yaraki M. Microb Pathog. 2017 Aug; 109:209-213.
55. Prevalence of adeno-associated virus and human papillomavirus DNA in Iranian women with and without cervical cancer. Shafiei-Jandaghi NZ, Yavarian J, **Faghihloo E**, Ghavami N, Ghalejoogh ZY, Kiani SJ, Malekshahi SS, Shahsiah R, Jahanzad E, Hosseini M, Azad TM. Pathol Res Pract. 2017 May; 213(5):457-460.
56. Transcriptional regulation of E-cadherin and oncoprotein E7 by valproic acid in HPV positive cell lines. **Faghihloo E**, Akbari A, Adjaminezhad-Fard F, Mokhtari-Azad T. Iran J Basic Med Sci. 2016 Jun; 19(6):601-7.
57. Modulation of transforming growth factor- β signaling transducers in colon adenocarcinoma cells induced by staphylococcal enterotoxin B. Akbari A, Mobini GR, Maghsoudi R, Akhtari J, **Faghihloo E**, Farahnejad Z. Mol Med Rep. 2016 Jan;13(1):909-14.
58. Detection of Epstein-Barr virus in synovial fluid of rheumatoid arthritis patients. Mahabadi M, **Faghihloo E**, Alishiri GH, Ataee MH, Ataee RA. Electron Physician. 2016 Mar 25;8(3):2181-6.
59. Identification of Azole Resistance Markers in Clinical Isolates of *Candida tropicalis* Using cDNA-AFLP Method. Kanani A, Zaini F, Kordbacheh P, Falahati M, Rezaie S, Daie R, Farahyar S, Safara M, Fateh R, **Faghihloo E**, Fattahi A, Heidari M. J Clin Lab Anal. 2016 May; 30(3):266-72.
60. Genetic characterization of the wboA gene from the predominant biovars of *Brucella* isolates in Iran. Etemady A, Mohammadi M, Esmaelizad M, Alamian S, Vahedi F, Aghaeipour K, Behrozikhah AM, **Faghihloo E**, Afshar D, Firuzyar S, Rahimi A. Electron Physician. 2015 Oct 19; 7(6):1381-6.
61. Prevalence and characteristics of Epstein-Barr virus-associated gastric cancer in Iran. **Faghihloo E**, Saremi MR, Mahabadi M, Akbari H, Saberfar E. Arch Iran Med. 2014 Nov;17(11):767-70.

62. Evaluation of antitumor activity of a TGF-beta receptor I inhibitor (SD-208) on human colon adenocarcinoma. Akbari A, Amanpour S, et al, **Faghihloo E**, Karimi A, Heidari M. Daru. 2014 Jun 5; 22:47.
63. Genotype circulation pattern of human respiratory syncytial virus in Iran. **Faghihloo E**, Yavarian J, Jandaghi NZ, Shadab A, Azad TM. Infect Genet Evol. 2014 Mar; 22:130-3.
64. Molecular epidemiology of human respiratory syncytial virus in Iran. **Faghihloo E**, Rezaie F, Salimi V, Naseri M, Mamishi S, Mahmoodi M, Mokhtari-Azad T. Acta Virol. 2011; 55(1):81-3.
65. Genetic Diversity in the G Protein Gene of Human Respiratory Syncytial Virus among Iranian Children with Acute Respiratory Symptoms. **Faghihloo E**, Salimi V, Rezaei F, Naseri M, Mamishi S, Mahmoodi M, Mokhtari-Azad T. Iran J Pediatr. 2011 Mar; 21(1):58-64.
67. Phylogenetic Analysis of Human Astrovirus Infection among Children Suffering from Gastroenteritis Referred to Aboozar Hospital, Ahvaz, Iran. Mozhgani SHR, **Faghihloo E**, et al, Mousavi-Nasab SD, Borhani K. Iranian Journal of Virology 2012;6(3): 32-35.
68. Molecular epidemiology of human respiratory syncytial virus in Iranian children less than 5 years in 2007: A study on 72 cases. **Faghihloo E**, Rezaei F, Salimi V, Naseri M, Mamishi S, Mahmoodi M, Mokhtari-Azad T. Tehran University Medical Journal. 2010. 68(3):194-199.
69. A Study of Human Respiratory Syncytial Virus Genotypes in Children Less Than 5 Years of Age with Acute Respiratory Symptoms in 2007 and 2009. **Faghihloo E**, Rezaei F, Salimi V, Naseri M, Mamishi S, Mahmoodi M, Mokhtari-Azad T. Scientific Journal of Ilam University of Medical Sciences. 2010. 18(3): 69-78.
70. Deregulation of the Hippo Signaling Pathway in Virus-Associated Cancer. Behboudi, E; Hashemzadeh, MS, **Faghihloo E**. Romanian Journal of Military Medicine, 172-184

RESEARCH PROJECTS LEADER OR CO-WORKER:

1. Frequency of Herpes Simplex Virus Type 1 and 2 and Cytomegalovirus from csf in Patients Suffering from Viral Encephalitis at Loghman hospital in 2017-8. (Leader)
2. Frequency of Varisla zoster virus, human Herpes Virus 6 and Epstein-bar Virus from the spinal cord fluid in patients suspected of viral encephalitis in Loghman hospital in 8-2017. (Leader)
3. Prevalence of high risk Human Papilloma Virus type 16, 18 among women with Breast Cancer in Modarres hospital since 2011-2017. (Leader)
4. Expression of PTEN regulating microRNA17, 20,214,217 in healthy and cancerous cervical samples. (Leader)
5. Expression of Human Endogenous Retrovirus K env in normal and tumor tissues of bladder cancer. (Leader)
6. Expression of Human Endogenous Retrovirus K gag and env in normal and tumor tissues of gastric cancer. (Leader)
7. Prevalence of herpes simplex and varicella zoster virus infection in meningitides suspected patients with Real-Time PCR in tree triterial Tehran hospitals in 1396-1395. (Leader)
8. Frequency of Human papillomavirus and Epstein–Barr virus in Healthy and Cancer Samples of Colorectal collected from Tehran Modares Hospital Between 2011 and 2017. (Leader)
9. Study of the effect of Escherichia coli O111:B4 lipopolysaccharide on cell invasion and expression of E7 human papillomavirus, E-cadherin and microRNA-9 in cervical cancer cell line (hela). (Leader)
10. Effects of Fusobacterium nucleatum on Expression of miRNAs 17-5P, 21 and 155 on SW480 Colorectal Cancer Cell Line. (Leader)
11. The study of effects of histone deacetylase inhibitor Oxamflatin on E-cadherin and Human papillomavirus E6 and E7 mRNA expression in cervical cancer cell line HeLa. (Leader)

12. A study of prevalence and genotypes of human respiratory syncytial virus in hospitalized patients over 60 years of age with acute respiratory symptoms in 2014-2015. (Leader)
13. The Effects of E7 protein of human papilloma virus type 16 on E-cadherin promoter methylation and CDC6 and E-cadherin expression in cell line HCT116. (Leader)
14. A study of prevalence and human respiratory syncytial virus genotypes in respiratory samples were collected from children below 2 years old with acute respiratory symptoms in 2011-2012. (Leader)
15. Evaluation of the frequency of EBV in healthy and breast cancer samples collected from taleghani hospital in 2018-2019. (Co-worker)
16. Detection of Carbapenemase among hypervirulent *Klebsiella pneumoniae* isolates isolated from hospitalized patients in Iran hospitals. (Co-worker)
17. Investigation of the effect of natural nisin and recombinant modified nisin on the way of apoptosis in the Sw480 colorectal cancer cell line. (Co-worker)
18. Investigating the inhibitory effect of bacteriophages on growth and biofilm formation of *Staphylococcus aureus* strains isolated from burn patients. (Co-worker)
19. Prevalence of *Porphyromonas gingivalis* Bacteria, Papiloma virus and Epstein-Barr virus in oral squamous cell carcinoma paraffin-embedded tissue samples. (Co-worker)
20. Evaluation of the effectiveness of immunization with the help of recombinant protein OprF-OprI-PopB *Pseudomonas aeruginosa* on humoral immune responses in rat models. (Co-worker)
21. Expression and purification recombinant protein produced from fusion of *Clostridium perfringens* type A alpha toxin gene and *Clostridium septicum* alpha toxin gene and study its immunization. (Co-worker)

22. Effects of *Fusobacterium nucleatum* FadA Protein on MLH1, MSH2, MSH6 Genes of Mismatch Repair System on SW480 Colorectal Cancer Cell Line. (Co-worker)
23. Investigating the effect of heterologous expression of *Streptococcus pneumoniae* yefm-yoeb toxin-antitoxin System in apoptosis induction and selective killing of breast cancer cell line, MCF-7. (Co-worker)
24. Investigating the effect of heterologous expression of *Streptococcus pneumoniae* yefm-yoeb toxin-antitoxin System on expression of p53, BAK, caspase-7, and caspase-9 in breast cancer cell line, MCF-7. (Co-worker)
25. Heterologous expression of *Streptococcus pneumonia* toxin YoeB and antitoxin YefM in breast cancer cell line, MCF-7. (Co-worker)
26. Design and construction of expression vector pBudCE4.1 containing *Streptococcus pneumoniae* yefm-yoeb toxin-antitoxin system. (Co-worker)
27. The inhibitory effects of the cell wall of *Lactobacillus reuteri* on cell proliferation in the colon cancer HCT-116 cell line. (Co-worker)
28. Effect of histone deacetylase inhibitor, oxamflatin, on tumor suppressor protein E-cadherin expression in gastric cancer cell line MKN-45. (Co-worker)
29. A Study of Human Respiratory Syncytial Virus Genotypes in Children Less Than 5 Years of Age with Acute Respiratory Symptoms in 1386 and 1387. (Co-worker)
30. A Study of relationship between CNR2 receptor polymorphism from children below 2 years old with acute respiratory symptoms in Imam Khomeini hospital. (Co-worker)
31. The study of Lipid Oxidative Enzymes expression in cervical tissue from persons with cervical cancer and controls. (Co-worker)
32. The study of Prevalence and Characteristics of Epstein-Barr virus associated Gastric Cancer in Iran. (Co-worker)

TEACHING EXPERIENCES:

1. Lecture on “Virology” for medical students, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
2. Lecture on “Virology” for dental students, School of Dentistry, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
3. Lecture on “Virology” for pharmacy students, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
4. Lecture on “Virology” for B.Sc. students of Prosthodontics, School of Dentistry, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
5. Lecture on “Virology” for B.Sc. students of Optometry, School of Rehabilitation, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
6. Lecture on “Virology” for MSc students of Microbiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
7. Lecture on “Virology” for PhD students of Microbiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
8. Lecture on “Virology” for dental residents, School of Dentistry, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2017-2023.
9. Lecture on “bioinformatics” for MSc students of Microbiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
10. Lecture on “bioinformatics” for PhD students of Microbiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2018-2023.

11. Lecture on “Practical Virology” for medical students, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
12. Lecture on “Practical Virology” for dental students, School of Dentistry, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
13. Lecture on “Practical Virology” for pharmacy students, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
14. Lecture on “Practical Virology” for B.Sc. students of Optometry, School of Rehabilitation, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
15. Lecture on “Practical Virology” for MSc students of Microbiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
16. Lecture on “Practical Virology” for PhD students of Microbiology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
17. Lecture on “Practical Virology” for PhD students of Parasitology, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.
18. Lecture on “Practical Virology” for resident of infectious disease, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran. 2015-2023.

THESIS:

1. Prevalence of high risk Human Papilloma Virus type 16, 18 among women with Breast Cancer in Modarres hospital since 2011-2017.
2. Study of the effect of Escherichia coli O111:B4 lipopolysaccharide on cell invasion and expression of E7 human papillomavirus, E-cadherin and microRNA-9 in cervical cancer cell line (hela).
3. Effects of Fusobacterium nucleatum on MLH1, MSH2, MSH6 Genes of Mismatch Repair System and miRNAs 17-5P, 21 and 155 on SW480 Colorectal Cancer Cell Line.
4. Prevalence of human papilloma virus in CRC samples.
5. Evaluation of the frequency of EBV in healthy and breast cancer samples collected from taleghani hospital in 2018-2019.
6. Detection of Carbapenemase among hypervirulent Klebsiella pneumoniae isolates isolated from hospitalized patients in Iran hospitals.
7. Systematic and meta-analysis of the prevalence of HTLV in Iran.
8. Investigation of the effect of natural nisin and recombinant modified nisin on the way of apoptosis in the Sw480 colorectal cancer cell line.
9. Investigating the inhibitory effect of bacteriophages on growth and biofilm formation of Staphylococcus aureus strains isolated from burn patients.
10. Frequency of Epstein-Barr virus in samples of colorectal cancer.
11. Systematic and meta-analysis of the prevalence of EBV in esophageal cancer.
12. Prevalence of Papiloma virus and Epstein-Barr virus in oral squamous cell carcinoma paraffin-embedded tissue samples.
13. Evaluation of the effectiveness of immunization with the help of recombinant protein OprF-OprI-PopB Pseudomonas aeruginosa on humoral immune responses in rat models.

14. Frequency of EBV in samples of breast cancer.
15. Expression and purification recombinant protein produced from fusion of *Clostridium perfringens* type A alpha toxin gene and *Clostridium septicum* alpha toxin gene and study its immunization.
16. Systematic and meta-analysis of the prevalence of HPV in cervical cancer in Iran.
17. Frequency of John Cunningham virus in samples of colorectal cancer.
18. Investigating the effect of heterologous expression of *Streptococcus pneumoniae* yefm-yoeb toxin-antitoxin System in apoptosis induction and selective killing of breast cancer cell line, MCF-7.
19. The inhibitory effects of the cell wall of *Lactobacillus reuteri* on cell proliferation in the colon cancer HCT-116 cell line.

RESEARCH EXPERIENCES:

1. Cell culture
2. Viral culture
3. Serological methods: HI, HA, IF, ELISA, NT
4. PCR, RT-PCR
5. Multiplex PCR
6. Real-time PCR
7. Methylation specific-PCR
8. Cloning
9. MTT assay
10. DNA and RNA extraction
11. ShRNA applications
12. SDS-PAGE
13. Western Blot
14. Bioinformatics software: BioEdit, Treecon, Clustal X, Mega, ImageJ
15. Primer design software: Oligo Ver.7, Gene Runner, Primer design
16. Statistical analysis software: SPSS, GraphPad Prism 5
17. Reverse genetics
18. Production of recombinant protein

BOOK:

1. Persian translated and summarized of Zinsser microbiology. Akbari A, **Faghihloo** E, Reza big Verdi.
2. BIOCHEMISTRY TO NURSING STUDENTS. Heidari H, Haghighi L, Faghihloo E.

WORKSHOPS ORGANIZER:

1. Teaching in small group. School of Medicine, Shahid Beheshti University of Medical Sciences.
2. Interactive lecture. School of Medicine, Shahid Beheshti University of Medical Sciences.
3. Gene expression analysis by Real-time PCR. School of Medicine, Shahid Beheshti University of Medical Sciences.
4. Teaching in small group. School of Medicine, Shahid Beheshti University of Medical Sciences
5. PCR Principals and Troubleshooting. 8th International Iranian Congress of Laboratory and Clinic. Tehran, Iran.
6. RNA Extraction for Gene Expression Analysis. 8th International Iranian Congress of Laboratory and Clinic. Tehran, Iran.
7. Interactive lecture. School of Medicine, Shahid Beheshti University of Medical Sciences.
8. Real-time PCR. 14th International Congress of Immunology and Allergy. Tehran, Iran.

PRESENTATIONS:

1. **Faghihloo E**, Silibinin upregulates E-cadherin expression in MKN-45 human gastric cancer cells. Oral Presentation, 4th International Congress of Gastrointestinal Cancer.
2. Faghihloo E, Global Study of Viral Meningitis: A Systematic Review and Meta-Analysis. Oral Presentation, 7th International Congress of Laboratory and Clinic. Tehran-Iran.
3. Faghihloo E, Epstein–Barr Virus and Human Papilloma Virus Detection In Iranian Patients With Colorectal Cancer. Oral Presentation, 7th International Congress of Laboratory and Clinic. Tehran-Iran.
4. Faghihloo E, Anoikis resistance and oncoviruses. Oral Presentation, 5thNational & 1st International Congress on Novel & Innovative Laboratory Technologies. Tehran-Iran.
5. Faghihloo E, Relationship of Human Herpes Virus 6 and Multiple Sclerosis: A Systematic Review and Meta-analysis. Oral Presentation, 5thNational & 1st International Congress on Novel & Innovative Laboratory Technologies. Tehran-Iran.
6. Faghihloo E, E-cadherin expression is down regulated by Oxamflatinin HeLa cervical carcinoma cells. Oral Presentation, 5thNational & 1st International Congress on Novel & Innovative Laboratory Technologies. Tehran-Iran.
7. Faghihloo E, Prevalence of Human Respiratory Syncytial Virus (HRSV) in Iran: A Systematic Review and Meta-Analysis. Oral Presentation, 9th International Congress of Laboratory and Clinic and 1st Congress of Clinical Virology. Tehran-Iran.
8. Faghihloo E, Prevalence of Human Papilloma Virus in Patients with Colorectal Cancer: A Systematic Review and Meta-Analysis. Poster Presentation, the 18th International Congress of Microbiology of Iran.
9. Faghihloo E, Sadeghizadeh M, Mokhtari-Azad T. Human papillomavirus E6 and E7 proteins repress expression of tumor suppressor protein E-cadherin in HCT-116 cell line. Oral Presentation, 7th International Congress

of Laboratory and Clinic and 1st Congress of Clinical Virology. Tehran-Iran.

10. Faghihloo E, Sadeghizadeh M, Mokhtari-Azad T. Cdc6 overexpression is induced by HPV16 E6 and E7 oncogenes represses E-cadherin expression. Poster Presentation, 6th International Congress of Newest Research Achievements in Medical Science. Tehran-Iran.

11. Faghihloo E. Prevalence and Characteristics of Epstein-Barr virus-associated Gastric Cancer in Iran. Poster Presentation, 7th International Congress of Laboratory and Clinic and 1st Congress of Clinical Virology. Tehran-Iran.

12. Faghihloo E, Mokhtari-Azad T. Valproic acid reduces HPV E7 oncoprotein expression and restores E-cadherin in HPV positive cell lines. Poster Presentation, 7th International Congress of Laboratory and Clinic and 1st Congress of Clinical Virology. Tehran-Iran.

13. Faghihloo E, Mokhtari-Azad T. Pattern of HRSV epidemics in Iran. Oral Presentation, 25th International Congress of Pediatrics. Tehran-Iran.

14. Faghihloo E. Molecular epidemiology of human respiratory syncytial virus in Iran. Oral Presentation, 6th Iranian Congress of Virology. Tehran-Iran.

15. Faghihloo E, Yavarian J. Genotype circulation pattern of respiratory syncytial virus in Iran. Oral Presentation, the First International Congress of Clinical Microbiology. Mashhad-Iran.

16. Faghihloo E, Naseri M, Mokhtari-Azad T. Genetic characteristics associated with the severity of acute viral bronchiolitis by respiratory syncytial virus. Oral Presentation, 4th Congress of Laboratory and Clinic. Tehran-Iran.

17. Faghihloo E, Naseri M, Mokhtari-Azad T. Prevalence and Characteristics of RSV. Oral Presentation, 3th Congress of Laboratory and Clinic. Tehran-Iran.

18. Faghihloo E, Mokhtari-Azad T. Genetic Diversity in the G Protein Gene of Human Respiratory Syncytial Virus among Iranian Children with Acute

Respiratory Symptoms. Oral Presentation, 22nd International Congress of Pediatrics. Tehran-Iran.

19. Faghihloo E, Mokhtari-Azad T. Phylogenetic Analysis of human respiratory syncytial virus in Iranian children less than 5 years in 2007: A study on 72 cases. Oral Presentation, 21st International Congress of Pediatrics. Tehran-Iran.

CONFERENCES/ WORKSHOPS ATTENDED:

1. The member of executive committee at 8th International Iranian Congress of Laboratory and Clinic.
2. Secretary of workshops at 7th International Congress of Laboratory and Clinic and 1st Congress of Clinical Virology.
3. The member of executive committee at 7th International Congress of Laboratory and Clinic and 1st Congress of Clinical Virology.
4. The member of judgment committee at 6th International Congress of Laboratory and Clinic.
5. The member of executive committee at 6th International Congress of Laboratory and Clinic.
6. The member of executive committee at 5th Iranian Congress of Virology.
7. The member of executive committee at 2nd International Student Congress of Biotechnology.
8. Attended at 7th International Congress of Laboratory and Clinic and 1st Congress of Clinical Virology.
9. Attended at 6th International Congress of Laboratory and Clinic.
10. Attended at 5th Iranian Congress of Virology.
11. Attended at 2th Congress of Laboratory and Clinic.
12. Attended at Workshop of Gene Transfer.
13. Attended at Workshop of New technology on CD4 Counting in patients with HIV.
14. Attended at Workshop of Laboratory analysis of oncogenes as determinant of the course of cancer therapy.
15. Attended at Workshop of Cancer stem cells: Laboratory techniques and their role in causation and treatment of human cancers.
16. Attended at Workshop of How to write an internationally competitive grant proposal.
17. Attended at Workshop of Principle in phylogenetic analysis.
18. Attended at Workshop of Next Generation Sequencing.