



**Curriculum Vitae
Somayeh Jalilvand**

Personal Information:

Name: Somayeh Jalilvand

Marital Status: Married, 2 child

Nationality: Iranian

Date of Birth: 14 February, 1979

Place of Birth: Tehran, Iran

Native language: Persian

Second language: English

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Current position:

Associate Professor at Virology Department, School of Public Health, Tehran University of Medical Sciences.

Executive experience:

1. Member of Educational Deputy, School of Public Health, Tehran University of Medical Sciences. 2020-2022.
2. Member of Evaluation Committee, School of Public Health, Tehran University of Medical Sciences. 2019 up to now.
3. Member of Evaluation Committee, School of Public Health, Tehran University of Medical Sciences. 2015 up to 2017.
4. Member of Research Committee, Virology Department, School of Public Health, Tehran University of Medical Sciences. 2014 up to now.
5. Member of Educational Committee of Virology Department, School of Public Health, Tehran University of Medical Sciences. 2016 up to now.

University Educations:

-Tehran University of Medical Science, IRAN
Ph.D., Medical Virology, 2006-2012

-Molecular Biology and Viral Oncogenesis Istituto Nazionale Tumori “Fond. G. Pascale”. Naples, Italy. Training on Practical Virology, particularly phylogenetic analysis of human herpesvirus 8 and VLP synthesis technology. Dec 2010-Oct 2011.

- Tehran University of Medical Science, IRAN
M.Sc., Medical Virology, 2002-2005

- Azad University, Tehran, IRAN
B.Sc., Microbiology, -1996-2001

Research Experience:

- Serological methods including: HIT, IFT, ELISA, NT, Avidity assay, Western blot

- Cell Culture

- Molecular biology: PCR technology, Gel electrophoresis, Real-time PCR, RFLP, Cloning, Western blot, Southern blot

-Bioinformatic softwares: BioEdit, Treecon, Clustal X, Mega

M.Sc.Thesis:

Study on Rubella virus by entitled **“Distinguishing between primary rubella infection and rubella reinfection by rubella vaccine strain in pregnant women who received MR vaccine mistakenly during mass campaign for MR vaccination on December 2003 in Iran”** in M.Sc. course

Ph.D.Thesis:

Study on HHV-8 and Kaposi Sarcoma by entitled **“Study of corrolation between herpesvirus 8 and mutations in D-loop and cytochrome b regions of mitochondrial DNA with Kaposi Sarcoma and genotyping of human herpesvirus 8 in Kaposi sarcoma patient”** in Ph.D. course

Research Interests:

1. Major Field of research: Oncovirology, particularly Papillomaviruses & HHV-8
2. Gastroenteritis viruses, particularly rotavirus and Norovirus

Teaching experience:

1. Lecturer on “Rotavirus” for Ph.D. Virology students, Tehran University of Medical Sciences, School of Public Health, 2018 up to now
2. Lecturer on “Reovirus” for Ph.D. Virology students, Tehran University of Medical Sciences, School of Public Health, 2018 up to now
3. Lecturer on “Papillomavirus” for Ph.D. Virology students, Tehran University of Medical Sciences, School of Public Health, 2017 up to now
4. Lecturer on “Transformation” for Ph.D. Virology students, Tehran University of Medical Sciences, School of Public Health, 2017 up to now
5. Lecturer on “Papillomavirus” for MSc Bacteriology students, Tehran University of Medical Sciences, School of Public Health, 2017 up to now
6. Lecturer on “Polyomaviruses” for MSc Bacteriology students, Tehran University of Medical Sciences, School of Public Health, 2017 up to now
7. Lecturer on “Human Herpesvirus 8” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
8. Lecturer on “Human Herpesvirus 8” for MSc Bacteriology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
9. Lecturer on “Rotavirus” for MSc Food Microbiology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
10. Lecturer on “Blotting techniques” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
11. Lecturer on “Blotting techniques” for MSc Bacteriology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
12. Lecturer on “Blotting techniques” for Ph.D. Bacteriology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
13. Lecturer on “Reoviridae” for MSc Bacteriology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
14. Lecturer on “Caliciviridae” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
15. Lecturer on “Astroviridae” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
16. Lecturer on “Hepatitis E Virus” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
17. Lecturer on “Diagnostic Virology” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2014 up to now
18. Lecturer on “Avidity assay” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2015
19. Lecturer on “Blotting techniques” for Ph.D. Virology students, Tehran University of Medical Sciences, School of Public Health, 2015 up to now
20. Lecturer on “Viral vaccines” for MSc Virology students, Tehran University of Medical Sciences, School of Public Health, 2015 up to now

Supervisor of Ph.D. theses:

1. Somayeh Hosseini-Fakhr. Identification of rotavirus, genetic and antigenic comparison of rotavirus VP7 and VP4/VP8* epitopes with vaccine strains and evaluation of serum antibodies against VP8* protein in susceptibility to rotavirus infection in hospitalized children under 5 years of age with acute gastroenteritis. 2023 (Pending).
2. Mehrnaz Kaffashian. Investigating of the association of the high-risk papillomavirus types 16 and 18 and the expression of HERV-K and HERV-H genes in laryngeal cancer and polyp patients. 2023 (Pending)
3. Rahim Soleimani-Jeloudar. The investigation of human papillomavirus oncoprotein-mediated effect (E6 & E7) using inhibitory siRNA and integration status of virus on transcriptional activity of human endogenous retrovirus-K Env in patients with cervical cancer compared to control group. 2020 (Pending).
4. Tayebeh Latifi. Developing chimeric hepatitis B core antigen virus like particle expressing VP8* of rotavirus and evaluation of its immunogenicity in animal models for vaccine development. 2022 (Finished).
5. Atefeh Afchangi. Generation of VP6 particles as fused with NSP4 in Baculovirus expression system and comparison of its immune response with VP6 particles with NSP4 in a BALB/C mouse model as a dual function immunogene for Rotavirus vaccine development. Tehran University of Medical Sciences, School of Public Health, 2018 (Finished).
6. Mohammad Farahmand. Relevance of genetic and phenotype status of histo-blood group antigens (HBGAs) in susceptibility to rotavirus infection in hospitalized children with acute gastroenteritis in Tehran, Iran. Tehran University of Medical Sciences, School of Public Health, 2018 (Finished).
7. Zahra Mousavi. Using the Gene expression database for transcriptome analysis of cervix tissue from patients with cervical cancer in order to identify the gene signatures involved in disease pathogenesis and laboratory validation of candidate genes in clinical samples. Tehran University of Medical Sciences, School of Public Health, 2018 (Finished).
8. Fariba Doroostkar. Evaluating the effect of CpG and STING agonist adjuvants on the immunogenicity of the mutant non-oncogenic form of human papillomavirus genotype 16 E7 protein in C57BL/6 mice. Tehran University of Medical Sciences, School of Public Health, 2017 (Finished).

Supervisor of MSc theses:

1. Sima Taherkhani. Investigation of the lineages and sublineages of high-risk human papillomavirus types 33 and 68 in cervical samples. 2024 (Pending).

2. Mahtab Mirhosseinian. Full genotype constellation analysis of unusual rotavirus G9P[4] strain in children less than 5 years of age with acute gastroenteritis in Tehran, Iran, 2020 to 2021; Reassortment and recombination investigation. 2024 (Pending).
3. Mohamad Shabanpour. Detection of variants of high-risk human papilloma virus types 35, 58 and 66 in cervical samples. 2023 (Pending).
4. Zohreh Khezeli. The investigation of integration status of the lineage/sublineages of human papillomavirus 16 in malignant and high-grade premalignant cervical samples compared to low-grade premalignant samples and healthy carriers. 2023 (Pending).
5. Mahtab Eftekhari. Detection, genogrouping, and genotyping of circulating human norovirus in children less than 5 years of age with acute gastroenteritis in 2021. 2022 (Finished).
6. Kimia Sharifian. The investigation of lineage and sublineage of human papillomavirus 51 and 59 in normal, premalignant, and malignant uterin cervical samples. 2021 (Finished).
7. Hanieh Shafipour. Evaluation of env gene expression of human endogenous retroviruses K18 (HERV K18) and possible relation with vitamin D level among patients with systemic lupus erythematosus compared to healthy control. 2021 (Finished).
8. Sara Chavoshpour. Comparison of frequency of human gamaherpesviruses in premalignant/malignant lesions and normal of cervical samples. 2020 (Finished).
9. Parvin Jalali-Alhossini. Variant analysis of human papillomavirus 52, 56, and 58 in cervical samples. 2020 (Finished).
10. Neda Hosseini. Variant analysis of human papillomavirus 31, 39, and 45 in cervical samples by molecular method. 2019 (Finished).
11. Zahra Salavatiha. Variant analysis of high-risk human papillomavirus type 18 in precancerous/cancerous lesions and healthy carriers. Tehran University of Medical Sciences, School of Public Health, 2018 (Finished).
12. Nasrin Heidari Farouji. Frequency of human papillomavirus types 18, 31 and 45 and their variants in cervical samples. Tehran University of Medical Sciences, School of Public Health, 2016-2017 (Finished).
13. Tayebeh Vaezi. Comparison of human papillomavirus type 16 variants between patients with cervical cancer and healthy carriers. Tehran University of Medical Sciences, School of Public Health, 2015-2017 (Finished).
14. Atefe Afghanghi. Designing rotavirus NSP4-VP6 fusion protein and its expression in bacterial expression system; Vaccine platform. Tehran University of Medical Sciences, School of Public Health, 2015-2016 (Finished).
15. Sajad Varmaziar. Genotyping of human herpesvirus 8 (HHV-8) in different forms of Kaposi's sarcoma and MDM2 SNP309 gene polymorphisms among Classic Kaposi's

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sarcoma patients. Tehran University of Medical Sciences, School of Public Health, 2015-2016 (Finished).

16. Rezvan Kakavand-Ghalehnoei. Study of human herpesvirus 8 (HHV-8) prevalence and genotyping among intravenous drug users and healthy subjects. Tehran University of Medical Sciences, School of Public Health, 2014-2016 (Finished).

Advisor of Ph.D. Theses

1. Mansoureh Abdolhosseini. Use of DNA nano ball to design and develop a diagnostic platform for HPV16, 18 based on lateral flow technique. 2021 (Pending).
2. Mahdieh Farzanepour. Expression of E-cadherin and its relationship with the candidate miRNAs expression in samples of cancerous and precancerous cervical metastasis caused by human papilloma virus. Tehran University of Medical Sciences, School of Public Health, 2015 (Finished).
3. Mohammad Shayestehpour. The selective replication of Adenovirus 5 in breast cancer cells by inserting the target sequences of microRNA-145 at the end of E1A gene. Tehran University of Medical Sciences, School of Public Health, 2014 (Finished).

Advisor of MSc Theses:

1. Shaghayegh Jahanshahi. The investigation of transcript levels of Human Endogenous Retrovirus-E env transcription in patients with cervical cancer and premlignant lesions compared to control group. 2023 (Pending).
2. Sara Saghafi. Measurement of expression HERV-K18 ENV (Human Endogenous Retrovirus K18) in PBMC patient of Lichen Planus compared to healthy. 2018 (Finished).
3. Javad Charostad. Assessment and comparison of Herpesviruses genome detection frequency in placenta tissue of spontaneous and therapeutic abortions. Tehran University of Medical Sciences, School of Public Health, 2016 (Finished).
4. Alieh Sadat Mostafa. Evaluation of association between DNA viral load of Multiple Sclerosis-associated retrovirus (MSRV) with Epstein-Bar virus load and detection of human herpesvirus 8 in both multiple sclerosis patients and healthy controls. Tehran University of Medical Sciences, School of Public Health, 2015 (Finished).
5. Behrang Sarshari. Determination of prevalence and genotypes of parvovirus B19 in clinical samples of non- Measles and non-Rubella patients with rash and fever. Tehran University of Medical Sciences, School of Public Health, 2014 (Finished).

6. Farzad Babakhani. Frequency of Human papillomavirus genotypes and correlation of HPV with P53 polymorphism among prostate cancer patients. Tehran University of Medical Sciences, School of Public Health, 2014 (Finished).

Publications:

Book:

- **Somayeh Jalilvand**, Saeed Namaki, Abbas Mirshafiey and Rasool Hamkar. Rubella vaccines and vaccination strategies. 2010, Chapter 8; pp: 191-220. In Vaccines in Viral Infections. By Rasool Hamkar, Abbas Mirshafiey, Saeed Namaki and Talat Mokhtari-Azad. Published English by Shahid Beheshti University of Medical Sciences, Iran.

Articles:

1. Atefeh Kachooei, Ahmad Tava Koli, Sara Minaeia, Mahdiah Hosseini, **Somayeh Jalilvand**, Tayebeh Latifi, Arash Arashkia, Angila Ataei-Pirkooh, Zabihollah Shoja. Molecular characterization of rotavirus infections in children less than 5 years of age with acute gastroenteritis in Tehran, Iran, 2021 to 2022: Emergence of uncommon G9P[4] and G9P[8] rotavirus strains. J Med Virol; 2023 Jan 25. doi: 10.1002/jmv.28529.
2. Mohammad Farahmand, Tayebeh Latifi, Atefeh Kachooei, **Somayeh Jalilvand**, Zabihollah Shoja. Circulating rotavirus P[8]-lineage IV, unlike P[8]-lineage III, significantly related to nonsecretors status in Iranian children. Journal of Medical Virology. 2023; 95(1):e28160.
3. Tayebeh Latifi, Sana Eybpoosh, Atefeh Afchangi, **Somayeh Jalilvand**, Zabihollah Shoja. Genetic characterization of P[8] rotavirus strains circulated in Iran between 2009 and 2017. Journal of Medical Virology. 2022; 94(8):3561-3569.
4. Zabihollah Shoja, **Somayeh Jalilvand**, Tayebeh Latifi, Farzin Roohvand. Rotavirus VP6: involvement in immunogenicity, adjuvant activity, and use as a vector for heterologous peptides, drug delivery, and production of nano-biomaterials. Archive of Virology. 2022 Apr;167(4):1013-1023.
5. Atefeh Afchangi, **Somayeh Jalilvand**, Arash Arashkia, Tayebeh Latifi, Mohammad Farahmand, Maryam Mashhadi Abolghasem Shiraz, Seyed Dawood Mousavi Nasab, Sayed Mahdi Marashi, Farzin Roohvand, Zabihollah Shoja. Co-administration of rotavirus nanospheres VP6 and NSP4 proteins enhanced the anti-NSP4 humoral responses in immunized mice. Microbial Pathogenesis. 2022 Feb;163:105405.
6. Arash Arashkia, **Somayeh Jalilvand**, Nasir Mohajel, Atefeh Afchangi, Kayhan Azadmanesh, Mostafa Salehi-Vaziri, Mehdi Fazlalipour, Mohammad Hassan Pouriayevali, Tahmineh Jalali, Seyed Dawood Mousavi Nasab, Farzin Roohvand, Zabihollah Shoja. Severe acute respiratory syndrome-coronavirus-2 spike (S) protein based vaccine candidates: State of the art and future prospects. Review in Medical Virology. 2021 May;31(3):e2183.
7. Atefeh Afchangi, Tayebeh Latifi, **Somayeh Jalilvand**, Sayed Mahdi Marashi, Zabihollah Shoja. Combined use of lactic-acid-producing bacteria as probiotics and rotavirus vaccine candidates expressing virus-specific proteins. Archive of Virology. 2021 Apr;166(4):995-1006.

8. Zahra Salavatiha, Mohammad Farahmand, Zabihollah Shoja, **Somayeh Jalilvand**. A meta-analysis of human papillomavirus prevalence and types among Iranian women with normal cervical cytology, premalignant lesions, and cervical cancer. *Journal of Medical Virology*. 2021 Aug;93(8):4647-4658.
9. Farahmand M, **Jalilvand S**, Arashkia A, Izadi A, Forouzannia SM, Mollaei-Kandelous Y, Shoja Z. Estimation of genetic variation in the Secretor and Lewis genes in Iranian hospitalized children. *Transfus Clin Biol*. 2021 Feb;28(1):11-15.
10. Neda Hossein, Zabihollah Shoja, Arash Arashkia, Amir-Hossein Khodadadi, **Somayeh Jalilvand**. Lineage analysis of human papillomavirus type 39 in cervical samples of Iranian women. *Virology Journal*. 2021 Jul 22;18(1):152.
11. Parvin Jalali-Alhosseini, Zabihollah Shoja, Rahim Soleimani-Jelodar, Hadi Shokrallahnia-Roshan, **Somayeh Jalilvand**. Lineage and sublineage analysis of human papillomavirus type 56 in cervical samples of Iranian women. *Journal of Medical Virology*. 2021 Nov;93(11):6412-6417.
12. Neda Hosseini, Shoja Z, Younesi S, Shafiei-Jandaghi NZ, **Jalilvand S**. Lineage analysis of human papillomavirus types 31 and 45 in cervical samples of Iranian women. *Journal of Medical Virology*. Jun;93(6):3857-3864.
13. Sara Chavoshpour-Mamaghani, Zabihollah Shoja, Yaghoub Mollaei-Kandelous, Kimia Sharifian, **Somayeh Jalilvand**. The prevalence of human herpesvirus 8 in normal, premalignant, and malignant cervical samples of Iranian women. *Virology Journal*. 2021 Jul 10;18(1):144.
14. Fariba Dorostkar, Arash Arashkia, Farzin Roohvand, Zabihollah Shoja, Mohsen Navar, Maryam Mashhadi Abolghasem Shirazi, Zahra Shahosseini, Mohammad Farahmand, Mohammad Sadegh Shams Nosrati, **Somayeh Jalilvand**. Co-administration of 2'3'-cGAMP STING activator and CpG-C adjuvants with a mutated form of HPV 16 E7 protein leads to tumor growth inhibition in the mouse model. *Infect Agent Cancer*. 2021 Jan 26;16(1):7.
15. Mohammad Farahmand, **Somayeh Jalilvand**, Arash Arashkia, Shohreh Shahmahmoodi, Atefeh Afchangi, Yaghoub Mollaei-Kandelous, Zabihollah Shoja. Association between circulating rotavirus genotypes and histo-blood group antigens in the children hospitalized with acute gastroenteritis in Iran. *Journal of Medical Virology*. 2021 Aug;93(8):4817-4823.
16. Mousavi SZ, Poortahmasebi V, Mokhtari-Azad T, Shahmahmoodi S, Farahmand M, Farzanehpour M, **Jalilvand S**. The dysregulation of microarray gene expression in cervical cancer is associated with overexpression of a unique messenger RNA signature. *Iranian Journal of Microbiology*. 2020 Dec; 12(6): 629-635.
17. Salavatiha Z, Shoja Z, Heydari N, Marashi SM, Younesi S, Nozarian Z, **Jalilvand S**. Lineage analysis of human papillomavirus type 18 based on E6 region in cervical samples of Iranian women. *Journal of Medical Virology*, 2020, 92(12): 3815–3820.

18. Kabuga AI, Nejati A, Arero AG, **Jalilvand S**, Mokhtari-Azad T, Sighaldehy SS, Wali UH, Shahmahmoodi S. Prevalence and Type Distribution of Human Papillomavirus Recovered from the Uterine Cervix of Nigerian Women: A Systematic Review and Meta-Analysis. *Asian Pac J Cancer Prev*. 2020 Oct 1; 21(10):2837-2846.
19. Salavatiha Z, Soleimani-Jelodar R, **Jalilvand S**. The role of endogenous retroviruses-K in human cancer. *Rev Med Virol*. 2020 Nov; 30(6):1-13.
20. Motamedi-Rad M, Farahmand M, Arashkia A, **Jalilvand S**, Shoja Z. VP7 and VP4 genotypes of rotaviruses cocirculating in Iran, 2015 to 2017: Comparison with cogent sequences of Rotarix and RotaTaq vaccine strains before their use for universal mass vaccination. *J Med Virol*. 2020 Aug; 92(8):1110-1123.
21. Charostad J, Mokhtari-Azad, Yavarian J, Ghavami N, Mahmood Seyed Khorrami S, Behboudi E, **Jalilvand S**, Shatizadeh Malekshahi S, Zahra Shafiei-Jandaghi N. Detection of human herpes viruses 1-5 in miscarriage: A case-control study. *Int J Reprod Biomed*. 2020 Jul 22; 18(7):501-508.
22. Mousavi SZ, Poortahmasebi V, Mokhtari-Azad T, Shahmahmoodi S, **Jalilvand S**, Rafiei Alavi E. CDK1 and PLK1 are key regulator proteins in human Papilloma virus Type 16-Positive Cervical Cancer: A Network-Based Study. *Medical Sciences*. 2020 Jan-Feb; 24 (101): 201-214.
23. Farzanehpour M, Muhammadnejad A, Akhavan S, Emami Razavi AN, **Jalilvand S**, Salimi V, Faghihloo E, Kakavandi E, Farahmand M, Shayestehpour M, Babakhani F, Mokhtari Azad T. P16INK4A Immunohistochemistry as a Gold Standard for Cervical Cancer and Precursor Lesions Screening. *Iran J Public Health*. 2020 Feb; 49(2):312-322.
24. Farzanehpour M, Faghihloo E, Salimi V, **Jalilvand S**, Kakavandi E, Mokhtari Azad T. Comparison of snail1, zeb1, e-cadherin expression levels in HPV-induced cervical cancer. *Iranian Journal of Public Health*. 2020; 49 (11): 2179-2188.
25. Shoja Z, Farahmand M, Hosseini N, **Jalilvand S**. A Meta-Analysis on Human Papillomavirus Type Distribution among Women with Cervical Neoplasia in the WHO Eastern Mediterranean Region. *Intervirology*. 2019; 62(3-4):101-111.
26. Farahmand M, Shoja Z, Arashkia A, Salavatiha Z, **Jalilvand S**. Systematic review and meta-analysis of human papillomavirus prevalence and types among women with normal cervical cytology in the Eastern Mediterranean Region. *Future Virology*. 2019; 14(11): 761–777.
27. Arashkia A, Nejat B, Farsi M, **Jalilvand S**, ..., Mohajel N, Shoja Z. Epidemiology and clinical characteristics of rotavirus and norovirus infections in hospitalized children less than 5 years of age with acute gastroenteritis in Tehran, Iran. *Acta Medica Iranica*. 2019; 57(11): 640–644.
28. Arashkia A, Bahrami F, Farsi M, Nejati B, **Jalilvand S**, Nateghian A, Rahbarimanesh A, Shoja Z. Molecular analysis of human adenoviruses in hospitalized children <5 years old with acute gastroenteritis in Tehran, Iran. *J Med Virol*. 2019 Nov; 91(11):1930-1936.

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29. Farzanehpour M, Mozhgani SH, **Jalilvand S**, Faghihloo E, Akhavan S, Salimi V, Azad TM. Serum and tissue miRNAs: potential biomarkers for the diagnosis of cervical cancer. *Virol J*. 2019 Oct 7; 16(1):116.
30. Shoja Z, Chenari M, Jafarpour A, **Jalilvand S**. Role of iron in cancer development by viruses. *Rev Med Virol*. 2019 Apr 17:e2045.
31. Afchangi A, **Jalilvand S**, Mohajel N, Marashi SM, Shoja Z. Rotavirus VP6 as a potential vaccine candidate. *Rev Med Virol*. 2019 Mar; 29(2):e2027.
32. Marashi SM, Mostafa A, Shoja Z, Nejati A, Shahmahmoodi S, Mollaei-Kandelous Y, Sahraian MA, **Jalilvand S**. Human herpesvirus 8 DNA detection and variant analysis in patients with multiple sclerosis. *Virusdisease*. 2018 Dec; 29(4):540-543.
33. Farsi M, Roodbari F, Nejati B, Arashkia A, **Jalilvand S**, Nateghian A, Rahbarimanesh A, Marashi SM, Shoja Z. Prevalence and genetic diversity of norovirus genogroup II in children less than 5 years of age with acute gastroenteritis in Tehran, Iran. *Med Microbiol Immunol*. 2018 Aug; 207(3-4):201-210.
34. **Jalilvand S**, Roohvand F, Arashkia A, Shoja Z. Update on Epidemiology and Circulating Genotypes of Rotavirus in Iranian Children With Severe Diarrhea: 1986-2015. *Int J Travel Med Glob Health*. 2018 Feb; 6(1):7-10.
35. Afchangi A, Arashkia A, Shahosseini Z, **Jalilvand S**, Marashi SM, Roohvand F, Mohajel N, Shoja Z. Immunization of Mice by Rotavirus NSP4-VP6 Fusion Protein Elicited Stronger Responses Compared to VP6 Alone. *Viral Immunol*. 2018 Apr; 31(3):233-241.
36. Heydari N, Oskouee MA, Vaezi T, Shoja Z, Esmaeili HA, Hamkar R, Shahmahmoodi S, **Jalilvand S**. Type-specific human papillomavirus prevalence in cervical intraepithelial neoplasia and cancer in Iran. *J Med Virol*. 2018 Jan; 90(1):172-176.
37. Rasool Hamkar, Zabihollah Shoja, Nastaran Ghavami, Nasrin Heydari, Mohammad Farahmand, **Somayeh Jalilvand**. Type-Specific Human Papillomavirus Prevalence in Iranian Women with Normal Cervical Cytology: The Impact of Current HPV Vaccines. *Intervirol*. 2017; 60(4):125-130.
38. Shayestehpour M, Moghim S, Salimi V, **Jalilvand S**, Yavarian J, Romani B, Mokhtari-Azad T. Targeting human breast cancer cells by an oncolytic adenovirus using microRNA-targeting strategy. *Virus Res*. 2017 Aug 15; 240:207-214.
39. Vaezi T, Shoja Z, Hamkar R, Shahmahmoodi S, Nozarian Z, Marashi SM, **Jalilvand S**. Human papillomavirus type 16 lineage analysis based on E6 region in cervical samples of Iranian women. *Infect Genet Evol*. 2017 Nov; 55:26-30.
40. Mostafa A, **Jalilvand S**, Shoja Z, Nejati A, Shahmahmoodi S, Sahraian MA, Marashi SM. Multiple sclerosis-associated retrovirus, Epstein-Barr virus, and vitamin D status in patients with relapsing remitting multiple sclerosis. *J Med Virol*. 2017 Jul; 89(7):1309-1313.

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41. Varmazyar S, Marashi SM, Shoja Z, Tornesello ML, Buonaguro FM, Shahmahmoodi S, Safaie-Naraghi Z, **Jalilvand S**. MDM2 gene polymorphisms and risk of classic Kaposi's sarcoma among Iranian patients. *Med Microbiol Immunol*. 2017 Apr; 206(2):157-163.
42. Farzad Babakhani, Talat Mokhtari Azad, Nasim Kondori, **Somayeh Jalilvand**, Sayed-Hamidreza Mozhgani, Nastaran Ghavami, Mahdiah Farzanehpour, Farhad Babaei. Detection of HPV genotypes and their association with p53 codon 72 polymorphism in prostate cancer. 2017; 12(6):
43. Tayebbeh Vaezi, Zabihollah Shoja, Shohreh Shahmahmoodi, Farhad Babaei, Babak Izadi, and **Somayeh Jalilvand**. The common human papillomavirus genotypes among cervical pre-cancer and cancer in Kermanshah province. *Journal of Kermanshah University of Medical Sciences*. J Kermanshah Univ Med Sci. 2017; 21(1): 32-36.
44. Rezvan Kakavand-Ghalehnoei ,Zabihollah Shoja, Alireza Najafi, Mostafa Haji Mollahoseini, and **Somayeh Jalilvand**. The prevalence of active human herpesvirus 8 infection and its genotypes among human immunodeficiency virus-infected patients. *Journal of School of Public Health and Institute of Public Health Research (In Persian)*. 2016; 14(3): 73-84.
45. Sajad Varmazyar , Zabihollah Shoja, Rezvan Kakavand-Ghalehnoei, Shohreh Shahmahmoodi, Sayed Mahdi Marashi, **Somayeh Jalilvand**. Molecular typing of human herpesvirus 8 among HIV positive in comparison to HIV-negative individuals in Iran. *J Med Virol*. 2017 Apr;89(4):703-709.
46. Mohammad Shayestehpour, Sharareh Moghim, Vahid Salimi, **Somayeh Jalilvand** , Jila Yavarian , Bizhan Romani , Erkkö Ylösmäki ,Talat Mokhtari-Azad. Selective replication of miR-145-regulated oncolytic adenovirus in MCF-7 breast cancer cells. *Future Virology*. 2016; 11(10):671-680.
47. Rezvan Kakavand-Ghalehnoei, Zabihollah Shoja, Alireza Najafi, MH Mollahoseini, Shohreh Shahmahmoodi, Sayed Mahdi Marashi, Ahmad Nejati, **Somayeh Jalilvand**. Prevalence of human herpesvirus-8 among HIV-infected patients, intravenous drug users and the general population in Iran. *Sex Health*. 2016 Jun; 13(3):295-8.
48. Sanaz Asiyabi, Ahmad Nejati, Zabihollah Shoja, Shohreh Shahmahmoodi, **Somayeh Jalilvand**, Mohammad Farahmand, Ali Akbar Gorzin, Alireza Najafi, MH Mollahoseini, Sayed Mahdi Marashi. First report of human parvovirus 4 detection in Iran. *J Med Virol*. 2016 Aug; 88(8):1314-8.
49. **Somayeh Jalilvand**, Masoumeh Saidi, Zabihollah Shoja, Nastaran Ghavami, Rasool Hamkar. The prevalence of human papillomavirus infection in Iranian patients with sinonasal inverted papilloma. *J Chin Med Assoc*. 2016 Jan 9. pii: S1726-4901(15)00312-3.
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and IgG Avidity Assay for Distinguishing between Primary and Secondary immune response to rubella vaccine. *Journal of Virological Methods*. **2005**; 130: 59-65.

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Presentations:

1-Human Papillomavirus Virology, Pathogenesis and Epidemiology. Scientific webinar on the role of human papillomavirus (HPV) in cancer and its control program in Iran. Iranian Society of Virology. 7th July 2022.

2-ENHANCED IMMUNOGENICITY INDUCED BY ROTAVIRUS VP6 FUSED TO NSP4 PROTEIN IN MICE. 18th International and Iranian Congress of Microbiology.29-31 August 2017.

3- DETECTION AND GENETIC CHARACTERIZATION OF NOROVIRUSES GENOGROUP II IN CHILDREN LESS THAN 5 YEARS OF AGE HOSPITALIZED WITH ACUTE GASTROENTERITIS IN TEHRAN, IRAN. 18th International and Iranian Congress of Microbiology. 29-31 August 2017.

4- UPDATE ON THE EPIDEMIOLOGY AND CIRCULATING GENOTYPES OF ROTAVIRUS IN IRANIAN CHILDREN WITH SEVERE DIARRHEA; 1986-2015. 18th International and Iranian Congress of Microbiology. 29-31 August 2017.

5- Jalilvand et al. Human herpesvirus 8 prevalence in intravenous drug users and general population in Iran. 7th Iranian congress on Virology. 10-11 May 2017.

6- Jalilvand et al. Human herpesvirus 8 prevalence in intravenous drug users and general population in Iran. 7th Iranian congress on Virology. 10-11 May 2017.

7- Jalilvand et al. The Common Human Papillomavirus Genotypes in Iranian Women with Cervical Cancer. 7th Iranian congress on Virology. 10-11 May 2017.

8- Jalilvand et al. The Frequency of Human Papillomavirus types among Women of Kermanshah with Cervical Cancer. 7th Iranian congress on Virology. 10-11 May 2017.

9- Zabihollah Shoja, Somayeh Jalilvand, Sayed Mahdi Marashi, Yaghoub Mollaei-Kandelous. Immune response induced by triple-layered rotavirus-like Particles (tRLPs) expressed constitutively. Nature Conference on Viral Infection and Immune response, Wuhan, China. 21-23 October 2016.

10- Human papilloma virus and its control program in Iran. 16th April 2016 (Iranian Society of Virology).

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- 11- Mahin Ahangar Oskouee, Shohreh Shahmahmoodi, Somayeh Jalilvand, Heidar-Ali Smaeili. Human Papillomaviruses and Human Murine Mammary Tumor Virus-Like Virus in Women Breast Cancer. The 8th the International & 1st the National Congress on Quality Improvement in Clinical Laboratories. 22-25 April 2015.
- 12- Farhad Babaei, Ali Ahmadi , Farhad Rezaei, Somayeh Jalilvand, Nastaran Ghavami, Mahmoud Mahmoudi, Ramin Abiri, Nasim Kondori , Rakhshande Nategh, Talat Mokhtari Azad. Assessment of Xenotropic Murine Leukemia Virus-Related-Virus and RNase L R462Q Variants in Iranian Patients with Sporadic Prostate Cancer. The 8th International Iranian Congress of Laboratory & Clinic and the 1st the National Congress on Clinical Virology. 12-14 February 2015.
- 13- Mahin Ahangar Oskouee, Shohreh Shahmahmoodi, Somayeh Jalilvand, Rakhshandeh Nategh, Talat Mokhtari-Azad, Heidar-Ali Smaeili. Human Papillomaviruses in Human Breast Cancer. The 8th International Iranian Congress of Laboratory & Clinic and the 1st the National Congress on Clinical Virology. 12-14 February 2015.
- 14- Somayeh Jalilvand, Zabihollah Shoja, Fahimeh Zamani and Talat Mokhtari-Azad. The role of Mitochondrial Haplogroups in Kaposi's sarcoma development. 1st International and 13th Iranian Genetics Congress. 24-26 May 2014.
- 15- Zabihollah Shoja, Somayeh Jalilvand, Yaghob Mollai-Kandelosi, Sayed Mahdi Marashi and Ahmad Nejati. Generation of core like particle (CLP) using constitutive expression of rotavirus VP2 in High-five insect cell line. The Comprehensive Novel Findings in National Congress Biology. 7-8 May 2014.
- 16- Zabihollah Shoja, Somayeh Jalilvand, Shohreh Shahmahmoodi, et al. Formation of self-assembled virus like particle 2/6/7 of rotavirus in stably transfected high-five insect cell line and their immunogenicity evaluation. 12th International Congress of Immunology and Allergy of Iran. April 29-May 2. 2014.
- 17- Fahimeh Zamani, Yaghob Mollai-Kandelosi, Somayeh Jalilvand, Shahbaz Zamani, Seyedeh-Sedighe Abedini, Elica Esmailzadeh, Iedeh Bahman and Maryam Neishabouri. The Effect of Urban Air Pollution on DNA oxidative stress. 3rd Iranian Congress of Medical Genetics. May, 15-16 2013.
- 18- Somayeh Jalilvand, Zahra Safaie Naraghi, Zabihollah Shoja, Rakhshandeh Nategh and Talat Mokhtari-Azad. Human Herpesvirus 8 Variants in Iranian Kaposi's sarcoma Patients. 14th Annual Congress of Iranian Society of Pathology. October, 17-19 2012.
- 19- Somayeh Jalilvand, Maria Lina Tornesello, Franco M. Buonaguro, Luigi Buonaguro, Zahra Safaie Naraghi , Zabihollah Shoja , Abed-Ali Ziaee, Rakhshandeh Nategh, Talat Mokhtari-Azad. Molecular epidemiology of human Herpesvirus 8 variants in Kaposi's sarcoma from Iranian patients. The 3rd International Conference on Viral Oncology Research. October, 4-6 2011, Naples, Italy.
- 20- Somayeh Jalilvand, Amiris Ramezani, Ali Eslamifar, Latif Gachkar and Rasool Hamkar. Detection of hepatitis G virus envelope protein E2 antibody in blood donor. The 3rd Iranian Congress of Clinical Microbiology. October, 6-8 2009.

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- 21- Somayeh Jalilvand, Rasool Hamkar and Rakhshandeh Nategh. Evaluation of Possible Transplacental Infection with Rubella Vaccine. 5th Iranian Congress of Virology & 1st Congress of Vaccine 2009.
- 22- Rasool Hamkar, Somayeh Jalilvand. Detection of various genotypes of human papillomavirus in nasal inverted papilloma. 5th Iranian Congress of Virology & 1st Congress of Vaccine 2009.
- 23- Somayeh Jalilvand, Rasool Hamkar, Rakhshandeh Nategh. Comparison of IgG avidity and IgM EIA assays for distinguishing between primary and secondary infections with rubella virus. The 2nd Iranian Congress of Clinical Microbiology. October, 7-9 2008.
- 24- Rasool Hamkar, Marzieh Noroozi, Yousef Yahyapour, Somayeh Jalilvand, Ladan Adibi, Samira Vaziri and Rahim Savad-Koochi. Prevalence of viral agents among children with acute gastroenteritis in Mazandaran province 2004-2005. 4th Iranian congress on Virology. May 1st -3rd 2007.
- 25- Yousef Yahyapour, Somayeh Jalilvand, Ladan Adibi and Rasool Hamkar. Prevalence of rotavirus in children with acute gastroenteritis in Amirkola hospital, Babol, Iran. 4th Iranian congress on Virology. May 1st -3rd 2007.
- 26- Eslamifar Ali, Hamkar Rasool, Ramezani Amitis, Ahmadi Farrokhlagha, Gachkar Latif, Jalilvand Somayeh, Adibi Ladan, Khameneh Ali, Atabak Shahnaz, Ghadimi Raminand Aghakhani Arezoo. Exposure to Hepatitis GB Virus in Patients on Maintenance hemodialysis. 15th. Iranian Congress on Infectious Diseases and Tropical Medicine program. Dec, 16-20 2006.
- 27- Yousef Yahyapour, Rahim Savad-Kohi, Somayeh Jalilvand and Rasool Hamkar. Rotavirus role in infants come with gastroenteritis in Mazandaran province, 3rd Iranian congress on Virology. Jan, 21-23 2006.
- 28- Somayeh Jalilvand, Rasool Hamkar, Mahboobeh Haji Abdolbaghi, Talat Mohktari-Azad, Mohammad Mahdi Gooya, Abdol-Reza Esteghamati and Rakhshandeh Nategh. Differential diagnostic between primary rubella infection from rubella reinfection as a consequence of rubella vaccine strain by IgG avidity assay among pregnant women that in mass vaccination of Measles-Rubella have vaccinated mistakenly by MR vaccine, 1st Iranian Congress on Immunology of Infectious Disease, Mars 9th -10th 2005.
- 29- Rasool Hamkar, Somayeh Jalilvand, Zahar Noroos Babaei, Zahra Saadatmand, Mahmood M.Shoshtari and Talat Mohktari-Azad. Study of Parvovirus B19 epidemiology among patients with fever and rash in Esfahan province, 2nd Iranian congress on virology. Feb, 13-15 20

Research projects

1. The investigation of lineage and sublineage of human papillomavirus 51 and 59 in normal, premalignant, and malignant uterin cervical samples during 2018-2020 in Tehran (Pending).

2. Developing chimeric hepatitis B core antigen virus like particle expressing VP8* of rotavirus and evaluation of its immunogenicity in BALB/c mice (Pending).
3. The investigation of human papillomavirus oncoprotein-mediated effect (E6 & E7) using inhibitory siRNA and integration status of virus on transcriptional activity of human endogenous retrovirus-K Env in patients with cervical cancer compared to control group (Pending).
4. Comparison of frequency of human gamma herpesviruses in premalignant/malignant lesions and normal of cervical samples (Finished).
5. Comparison of lineage and sublineages of human papillomavirus 52, 56, and 58 in premalignant/malignant cervical samples with healthy carriers (Finished).
6. Variant analysis of human papillomavirus 31, 39, and 45 in cervical samples (Finished).
7. Variant analysis of high-risk human papillomavirus type 18 in cervical samples (Finished).
8. Relevance of genetic status of human histo-blood group antigens (FUT2, FUT3) in children with rotavirus infection compared to control group (Finished).
9. Using the Gene expression database for transcriptome analysis of cervix tissue from patients with cervical cancer in order to identify the gene signatures involved in disease pathogenesis and laboratory validation of candidate genes in clinical samples (Finished).
10. Evaluating the effect of CpG and STING agonist adjuvants on the immunogenicity of the mutant non-oncogenic form of human papillomavirus genotype 16 E7 protein in C57BL/6 mice (Finished).
11. Comparison of human papillomavirus 16 and 18 variants among Iranian women with cervical cancer and healthy carriers (Finished).
12. Detection and phylogenetic analysis of enteric adenoviruses among children less than 5 years old with acute gastroenteritis referring to Ali-Asgar Hospital during 94-95 (Finished).
13. Prevalence and genotyping human herpesvirus 8 among multiple sclerosis patients and healthy subjects (Finished).
14. Detection of norovirus recombinants in genotypes of genogroup GII of cocirculating in children less than 5 years with acute gastroenteritis (Finished).
15. Detection and genotyping of norovirus circulating among children less than 5 years with acute gastroenteritis, Pasteur institute of Iran (Finished).
16. Constructing rotavirus NSP4-VP6 fusion protein as a vaccine candidate. Pasteur institute of Iran (Finished).

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17. Prevalence of human herpesvirus 8 (HHV-8)-active infection among HIV-infected patients and comparison of HHV-8 genotypes between HIV-infected patients and Kaposi's sarcoma patients (Finished).
18. Study of human papillomavirus types among women with cervical cancer in Kermanshah Province (Finished).
19. HHV-6 detection using Real-time PCR and Nested PCR in patients with multiple sclerosis compare to healthy controls (Finished).
20. Evaluation of association between expression of Multiple Sclerosis-associated retrovirus (MSRV) and Epstein-Bar virus load in both multiple sclerosis patients and healthy controls (Finished).
21. Study of human herpesvirus 8 (HHV-8) genoprevalence among high-risk individuals (intravenous drug users with or without HIV infection) and healthy subjects and genotyping of HHV-8 in these subjects (Finished).
22. MDM2 SNP309 gene polymorphisms among Kaposi sarcoma patients (Finished).
23. Role of mitochondrial haplogroups in Kaposi's sarcoma development (Finished).
24. Study of correlation between herpesvirus 8 and mutations in D-loop and cytochrome b regions of mitochondrial DNA with Kaposi Sarcoma and genotyping of human herpesvirus 8 in Kaposi sarcoma patients (Finished).

Workshops:

- 1. Elsevier Author workshop on "How to write an international article".** Tehran University of Medical Sciences. 29th of October, 2014.
- 2. Scientific Writing.** Jahad Daneshgahi of Tehran University of Medical Sciences. 27-29 September. 2013.
- 3. Workshop of Research Strategy in Medical Sciences.** Tehran University of Medical Sciences. November, 2007.
- 4. Teaching of training course.** 15th workshop of educational strategies. 19-21 October, 2006.

Honors and Awards:

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- Getting the grant of Kazemi Ashtiani from Bonyade Melli Nokhbeghan
- Being the honor of Bonyade Melli Nokhbeghan (Danesh amokhteh bartar)
- Getting the grant of Young professor from Health Ministry of Iran (Three times)
- Being the honor of genius university student in the 10th Avicenna Festival in Tehran University of Medical Sciences, February, 2009
- Being the honor of outstanding thesis in the 8th Avicenna Festival in Tehran University of Medical Sciences, February, 2007
- Being the top student in Ph.D course
- Getting the first degree in Ph.D. national exam in Medical Virology
- Being the top student in M.Sc. course
- Getting the second degree in M.Sc. national exam in Medical Virology