

CURRICULUM VITAE



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Date of birth: 18 Oct 1962.

Educations:

2021: PhD in Medical Virology, Institut Pasteur of Iran, Tehran.

2000 : Diploma of Systematic Virology, Pasteur Institute of Paris.

1985 – 1992: Doctor of Medical Technology, Iran Medical Center University.

Research Training:

* 2005: Virology department, Enteroviral diseases, Centre for Infection, Health Protection Agency, London, England.

* 2000: Virology department, Pasteur Institute of Dakar, Dakar, Senegal.

Work experience:

* 1995 up to now: WHO-Collaborating Centre for Reference & Research on Rabies, Pasteur Institute of Iran Tehran.

* 1992-1994: Microbiology department, Pasteur Institute of Iran, Tehran.

Membership:

* Iran Medical Council.

* Middle East & Eastern Europe Rabies Experts Bureau (MEEREB).

Professional experience/Projects:

2019-2021: Associate researcher in “Investigation of the Protective Effect of Rabies Vaccine against COVID-19 Disease in Tehran and Qom Provinces.

2015-2017: Associate researcher in “The Isolation and Characterization of Recombinant Camelids Nanobody against G Glycoprotein of Rabies Virus”.

2015-2016: Associate researcher in “RNA Detection of Rabies Virus in the Brains of Suspected Rabid Animals using RT-LAMP Method Compare to RealTime RT-PCR tests as a Quantitative Molecular Technique and DFA as a Serologic and WHO Gold Standard Method”.

2015-2016: Researcher in charge of “Serum Survey and evaluating the Immunogenicity of Intramuscular Injection of Purified Vero Cell rabies Vaccine under 2-1-1 regimen(Zagreb) in comparison with the current regimen (Essen) of 5 doses of PVRV in Iranian population”.

2015-2016: Associate researcher in “Assessment of Sero-conversion in Individuals Receiving three Doses of Rabies Vaccines as Post-exposure Treatment”.

2014-2016: Associate researcher in: “Construction and Evaluation of Rabies virus Mini-replicon for New Generation Vaccine Design”.

2011-2013: Associate researcher in “Expression of Rabies Virus Nucleoprotein in Baculovirus System in order to produce the Anti-rabies Nucleocapsid Conjugate and comparison with Extracted Antigen from Rabies Infected Cell Culture”.

2011-2012: Associate researcher in: “Optimization of Industrial production of Rabies Vaccine in Bioreactor for Veterinary Use”.

2010-2012: Associate researcher in: “Spatial analysis of dog mediated rabies in Iran by geographical information system (GIS)”.

2010-2011: Associate researcher in “Pilot Study: Feasibility of Control of Rabies in Wild Carnivores by using Oral Vaccine”.

2009-2011: Researcher in charge of: "Proteomics analysis of human brain tissue infected by street rabies virus", Pasteur Institute of Iran.

2008-2010: Associate researcher in: "Evaluation of rabies laboratory diagnosis by RTCIT and PCR methods in comparison with MIT, in FAT negative samples", Pasteur Institute of Iran.

2007-2010: Associate researcher in: "Ragestandbio", Harmonization the RFFIT method (for rabies antibody titration) in 14 Pasteur Institutes in the world.

2006-2008: Associate researcher in: "Study on lasting Immunity in previously treated persons against rabies and investigation of booster effect of Vero Rabies vaccine", Pasteur Institute of Iran.

2006-2007: Associate researcher in: "Evaluation of antibody response to oral rabies vaccine among wolves Research Project SGS06/46, WHO/ EMRO".

2005:

1. Associate researcher in "Molecular Epidemiology of Noroviruses Infection in Iranian Children.
2. Associate researcher in "Determination of Rabies Virus Reservoirs (Phosphoprotein gene polymorphism) and survey of its prevalence route throughout the country.

2003 - 2005: Researcher in charge of “Molecular epidemiology of Rota virus infection among Hospitalized children in Markaze Tebbi Koudakan Hospital.

2003:

1. Associate researcher in “Prevalence of subgroups and electrophoretotypes of Human rotavirus among children under 5 years old with acute diarrhea.
2. Associate researcher in “Epidemiology survey of prevalence route of rabies virus subtypes in hosts (carnivores or herbivores) in the country.

2000 – 2003: Associate researcher in “Preparation of ELISA kit by sandwich technique for evaluation of Glycoprotein content of prepared cell culture vaccines”.

1998 – 2000: Associate researcher in “Molecular epidemiology of rabies virus strains isolated from different parts of Iran”.

1993 – 1995: Researcher in charge of “Plasmid profile and drug resistance of Shigella isolated from clinically diagnosed cases of acute dysentery and gastroenteritis”.

Languages:

English: Good,

French: Smattering

Publications:

- 1) Shabansalmani, N., et al. "A Review of Rabies Treatment Methods in Ancient Iran." *J Virol Viral Dis* 2.3 (2022).
- 2) **Farahtaj, Firozeh**, et al. "Differential pathogenesis of intracerebral and intramuscular inoculation of street rabies virus and CVS-11 strains in a mouse model." *Iranian Journal of Basic Medical Sciences* 24.7 (2021): 943.
- 3) Taylor, Emma, et al. "Rabies in the Middle East, Eastern Europe, Central Asia and North Africa: Building evidence and delivering a regional approach to rabies elimination." *Journal of infection and public health* 14.6 (2021): 787-794.
- 4) **Farahtaj, Firouzeh**, et al. "Enhancement of immune responses by co-stimulation of TLR3-TLR7 agonists as a potential therapeutics against rabies in mouse model." *Microbial Pathogenesis* 157 (2021): 104971
- 5) **Farahtaj, Firouzeh**, et al. "Natural infection with rabies virus: a histopathological and immunohistochemical study of human brains." *Osong Public Health and Research Perspectives* 10.1 (2019): 6.
- 6) Alireza Gholami¹, Siamak Massoudi, Majid Kharazian Moghaddam, Mahmoud Ghazi Marashi, Mahyar Marashi, Rouzbeh Bahsar, Ahmad Fayaz, Maryam Fazeli, **Firouzeh Farahtaj**, Nader Howaizi, Mohammad-Reza Shirzadi, (2017), The Role of the Gray Wolf in Rabies Transmission in Iran and Preliminary Assessment of an Oral Rabies Vaccine in this Animal, *J Med Microbiol Infect Dis*, 5 (3-4).
- 7) V. Picota, A. Rasuli, A. Abella-Rider, M. Saadatian-Elahid, A. Aikimbayeve, A. Barkiaf, S. Benmaizg, Z. Bouslamag, K. De Balogh, A. Dehovei, F. Davlyatovj, **F. Farahtaj**, G. Gongall, A. Gholamik, P. Imnadzem, M. Issadn, S. Khoufig, V. Nedosekovo, A. Rafilap, H. Richq, A. Soufin, J. Tychiev, N. Vranjess, R. Vodopijat, I. Zaouiau, L. Nel, (2015), The Middle East and Eastern Europe rabies Expert Bureau (MEEREB) third meeting: Lyon-France (7–8 April, 2015), <http://dx.doi.org/10.1016/j.jiph.2017.03.005>.
- 8) Gholami A, **Farahtaj F**, Fayaz A, Rabies in Iran: Past, Present and Future, *J Med Microbiol Infec Dis*, 2014, 2 (1): 1-10.

- 9) **Farahtaj F**, Fayaz A, Gholami A, Biglari P, Howaizy N " Human Rabies in Iran" *Tropical Doctor journal*, **2014**, TD-13-0079.R2 *Trop Doct* published online 24 March 2014.
- 10) **Farahtaj F**, Zandi F, Khalaj V, Biglari P, Fayaz A, Vaziri B " Proteomics analysis of human brain tissue infected by street rabies virus" *Mol Biol Rep* (**2013**): 40:6443-6450.
- 11) A. Aikimbayev, D. Briggs, G. Coltan, B. Dodet, **F. Farahtaj**, P. Imnadze, J.Korejwo, A. Moiseieva,N. Tordo, G. Usluer, R. Vodopija and N. Vranjes, (**2013**), Fighting Rabies in Eastern Europe, the Middle East and Central Asia - Experts Call for a Regional Initiative for Rabies Elimination, *Zoonoses and Public Health*, doi: 10.1111/zph.12060.
- 12) Fayaz A, Simani S, Fallahian V, Eslamifar A, **Farahtaj F**, Howaizi N, Biglari P, " Rabies antibody levels in pregnant women and their newborns after rabies post-exposure prophylaxis" *Iran J Reproductive Med* (**2012**):vol.10, No.2 pp: 161-163.
- 13) Orhan Aylan,¹ Aly Fahmy Mohamed El-Sayed,² **Firouzeh Farahtaj**,³ Ali R. Janani,³ Olga Lugach,⁴ Olgha Tarkhan- Mouravi,⁵ Gaye Usluer,⁶ Rodovan Vodopija,⁷ Nenad Vranjes,⁸ Noel Tordo,⁹ and Betty Dodet ¹⁰"Report of the First Meeting of the Middle East and Eastern Europe Rabies Expert Bureau, Istanbul, Turkey (June 8-9, 2010) ,SAGE-Hindawi Access to Research Advances in Preventive Medicine Volume **2011**, Article ID 812515, 4 pages doi:10.4061/2011/812515.
- 14) A Fayaz, S Simani, Janani AR ,**F Farahtaj**,P Biglari, N Howaizi ,N Eslami, D Briggs, "Antibody persistence, 32 years after post-exposure prophylaxis with human diploid cell rabies vaccine (HDCV)" , **29(2011) 3742-3745, 2011.**
- 15) Fayaz A, Simani S Fallahian V, Eslamifar A, Hazrati M, Fayaz M A,Mashayekhi P, **Farahtaj F**, Howaizi N, Giglari P " Rabies neutralizing Antibody level in immunosuppressed patients after receive of rabies post-Exposureprophylaxis" *Iran J Clin Infect Dis* (**2011**) vol.6 No.3, 124-127 .
- 16) Janani AR , A Fayaz, S Simani, **F Farahtaj**, N Eslami, N Howaizi, P Biglari, M Sabetghadam, "Epidemiology and Control of Rabies in Iran", *Dev Biol,Karger*,Vol 131, pp:207-211, **2008.**
- 17) Fayaz, Ahmad, et al. "A Survey of Human Rabies in Iran; 2000-2006." *مجله ویروس شناسی ایران* (**2008**): 29-33.
- 18) Farahtaj, F., et al. "Rotavirus VP7, VP4 and VP6 genotypes co-circulating in Tehran, Iran, between 2003 and 2004." *Epidemiology & Infection* 135.5 (**2007**): 834-838.
- 19) A Fayaz, S Simani, F Farahtaj, Janani AR , N Eslami, N Howaizi, P Biglari, M Sabetghadam , "Epidemiological survey of rabies in Mazandaran in decade (1996-**2006**)", *Journal of scientific and research, university of medical science of Babol.*
- 20) Taremi, Mahnaz, et al. "Genomic Diversity of Rotavirus Strains Infecting Pediatric Patients in Tehran, Iran: 1422." *Official journal of the American College of Gastroenterology/ ACG* 101 (2006): S542.

- 21) Simani S. D.V.M, Ph.D., Fayaz A.D.V.M., **Farahtaj F.**, et al, "Identification of Rabies virus subtypes in Iran by applying molecular characters", Journal of research in Medicine, No. 2, Vol.30, PP: 145-146, Summer **2006**.
- 22) **Farahtaj F.**, Gallimore CI, Iturrize Gomara M, Taremi M, Zali MR, Edalatkhah H, Fayaz A, Gray J, "Rotavirus VP7, VP4 and VP6 Genotypes Co-circulating in Tehran, Iran", Journal of Epidemiology and Infection, 2006, 135, pp:834-838.
- 23) Taremi, Mahnaz, et al. "Molecular Epidemiology and Clinical Features of Rotavirus Infection in Iranian Children: 1029." *Official journal of the American College of Gastroenterology/ ACG 100* (**2005**): S375.
- 24) World Health Organization. *Report on the intercountry workshop on rotavirus surveillance, Cairo, Egypt, 21-23 September 2004*. No. WHO-EM/EPI/235/E. World Health Organization. Regional Office for the Eastern Mediterranean, **2005**.
- 25) Simani S. DVM, PhD.*, Amirkhani A.DVM,PhD., **FARAHTAJ F., M.L.D.**, Hooshmand B. DVM, MPH., Nadim A. MD, PhD, Sharifian J. DVM,MPH, Howaizi N.BS., Eslami N. BS., Gholami A.MSc, Janani A.DVM and Fayaz A.DVM., Evaluation of the Effectiveness of Pre-exposure Rabies Vaccination in Iran., Journal of archives of Iranian medicine,(**2004**) Vol 7, No.4.
- 26) Simani S., Gholami A., **FARAHTAJ F.**, Yousefi-Behzadi M., Fayaz A., "Epidemiological Survey of Different Rabies Virus Strains in Iran: By Restriction Analysis"Journal of Sciences of Islamic Republic of Iran, vol.12, No.4, Autumn **2001**.
- 27) **Farahtaj F.**, AmirKhani A., Jarallahi A., Malekzadeh F.,Bahremand A., Gharib M., " Determination of Plasmid Profile And Antibiotic Resistance of Shigella Isolated from Clinical Cases". Cellular and Molecular Biology, Vol.42/Suppl Sep **1996**.