

## Personal Information



## Mohsen Moghoofei

 Kermansha, Iran



 [Email](#)

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Sex: Male | Date of birth: 08/03/1986 | Nationality: Iran |

## Research Profile

- Virologist with > 5 years of comprehensive research experience in the areas of clinical virology, Immunology, Cancer biology and Host-pathogen interactions
- I have run two national projects as a Principal Investigator at National Institute for Medical Research Development (NIMAD), Iran. Also, I have 10 grants at Ministry of Health of Iran as PI and was involved in 14 national research projects as a scientist.

## Work Experience

Nov 2018 – Now

### *Faculty Member*

Kermanshah University of Medical Sciences, Kermanshah, Iran.  
In charge of researching, teaching to student, organizing data, etc.

Dec 2019 - Now

### *Senior researcher*

Kermanshah University of Medical Sciences, Kermanshah, Iran.  
In charge of grant management, research and data analysis.

## Education and Training

2013-2018

### *Doctor of Philosophy (Ph.D.)*

Medical Virology, Department of Virology, Faculty of Medicine, Iran University of Medical Sciences, Tehran, Iran.

Thesis: microRNAs 29, 150, 155, 223 level and their relation to viral and immunological markers in HIV-1 infected naive patients

2011-2013

### *Master of Science (M.Sc.)*

Medical Microbiology, Department of Microbiology, Faculty of Medicine, Isfahan University of Medical sciences, Isfahan, Iran.

Thesis: Morphological and bactericidal effects of amikacin, meropenem and imipenem on Pseudomonas aeruginosa

2007-2011

### *Bachelor of Science (B.Sc.)*

Biology, Department of Biology, School of Sciences, Razi University, Kermanshah, Iran.

## Laboratory skills

- Transcriptomics
- PCR, Real-time PCR

- Epigenomics
- Cell and viral culture
- Sequencing
- Flowcytometry
- Animal handling
- Immunofluorescence Microscopy
- BSL2 biocontainment environments

## Research Interests

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- HIV pathogenesis
- Viral latency
- Molecular Virology
- Elite Controllers
- Host-pathogen interaction
- Immunovirology
- Cellular and Molecular Biology
- microRNA

## Languages

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Kurdish (Mother Tongue) | Persian (Native) | English (C1) | Deutsch (A1)

## Memberships

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*2023- Now*

European Respiratory Society (ERS)

*2021- Now*

Microbiology Society (MicroSoc)

*2018-Now*

American Society for Virology (ASV)

*2015- Now*

American Society for Microbiology (ASM)

*2013-Now*

Iranian Society for Virology (ISV)

## Honors and Awards

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Ranked 42th in University Entrance Exam (M.Sc.), Iran, 2011.

Ranked 4th in University Entrance Exam (Ph.D.), Iran, 2013.

Top researcher student, Iran University of Medical Sciences (IUMS), 2015.

Top researcher student, Iran University of Medical Sciences (IUMS), 2016.

## Publication List

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### *Selected Journal Articles*

1. Zahra Sobhi Amjad, Ali Shojaeian, Javid Sadri Nahand, Mobina Bayat, Mohammad Taghizadiehd, Mosayeb Rostamian, Farhad Babaei, Mohsen Moghoofei. *Oncoviruses: Induction of cancer development and metastasis by increasing anoikis resistance.* 2023; 9 (12). (Corresponding Author).
2. Bashdar Mahmud Hussen, Majid Noori, Babak Sayad, Maryam Ebadi Fard Azar, Javid Sadri Nahand et al. *New potential miRNA biomarkers in HIV Elite Controllers, HIV infections and Co-Infections with HBV or HCV.* *Intervirolgy Journal.* 2023;66(1):122-135. (Corresponding Author).
3. Zahra Minoosh Siavosh Haggai, Taher Tabatabaei, Mahboobeh Rafigh, Romina Karampour, et al. *Human Papillomavirus maybe is a critical player in the Regulation of*

Chemoresistance related Factors (P53, Rb, TWIST, Bcl-2, Bcl-XL, c-IAP2, cytochrome C, and caspase 3) in Breast Cancer. *Pathology Research and Practice Journal*. 2023; 248:1-15. (Corresponding Author).

4. Ammar Khalo Abass Kasho, Javid Sadri Nahand, Arash Salmaninejad, Hamed Mirzaei, Mohsen Moghoofei, et al. PBMC MicroRNAs: Promising Biomarkers for the Differential Diagnosis of COVID-19 Patients with Abnormal Coagulation Indices. *Current Microbiology*. 2023; 80:248.
5. A. N. McElroy, R. Invernizzi, J. W. Laskowska, A. O' Neill, M. Doroudian, M. Moghoofei, S. Mostafaei, F. Li, A. A. Przybylski, Andrew. G. Bowie, P. G. Fallon, T. M. Maher, C. M. Hogaboam, P. L. Molyneaux, N. Hirani, M. E. Armstrong, S. C. Donnelly. Candidate role for Toll-like receptor 3 L412F polymorphism and infection in acute exacerbation of idiopathic pulmonary fibrosis. *American Journal of Respiratory and Critical Care Medicine*. 2022; 205(5):550-562.
6. Mohsen Moghoofei, Shayan Mostafaei, Nasim Kondori, Michelle E. Armstrong, Farhad Babaei. Bacterial and viral coinfection in idiopathic pulmonary fibrosis patients: the prevalence and possible role in disease progression. *BMC Pulmonary Medicine*. 2022; 22:60.
7. Nahand JS, Jamshidi S, Hamblin MR, Mahjoubin-Tehran M, Vosough M, Jamali M, Khatami A, Moghoofei M, Baghi HB, Mirzaei H. Circular RNAs: new epigenetic signatures in viral infections. *Frontiers in microbiology*. 2020 Jul 31; 11:1853.
8. Yousefpouran S, Mostafaei S, Manesh PV, Iranifar E, Bokharai-Salim F, Nahand JS, Mirzaei H, Taran M, Babaei F, Sayad B, Moghoofei M. The assessment of selected MiRNAs profile in HIV, HBV, HCV, HIV/HCV, HIV/HBV Co-infection and elite controllers for determination of biomarker. *Microbial pathogenesis*. 2020 Oct 1; 147:104355. (Corresponding Author).
9. Khodabandehlou N, Mostafaei S, Etemadi A, Ghasemi A, Payandeh M, Hadifar S, Norooznehad AH, Kazemnejad A, Moghoofei M. Human papilloma virus and breast cancer: the role of inflammation and viral expressed proteins. *BMC cancer*. 2019 Dec; 19(1):1-1. (Corresponding Author).
10. Moghoofei M, Mostafaei S, Nesaei A, Etemadi A, Sadri Nahand J, Mirzaei H, Rashidi B, Babaei F, Khodabandehlou N. Epstein–Barr virus and thyroid cancer: The role of viral expressed proteins. *Journal of cellular physiology*. 2019 Apr; 234(4):3790-9.
11. Tavakoli A, Ataei-Pirkooh A, Mm Sadeghi G, Bokharai-Salim F, Sahrapour P, Kiani SJ, Moghoofei M, Farahmand M, Javanmard D, Monavari SH. Polyethylene glycol-coated zinc oxide nanoparticle: an efficient nanoweapon to fight against herpes simplex virus type 1. *Nanomedicine*. 2018 Nov; 13(21):2675-90.
12. Moghoofei M, Bokharai-Salim F, Esghaei M, Keyvani H, Honardoost M, Mostafaei S, Ghasemi A, Tavakoli A, Javanmard D, Babaei F, Garshasbi S. MicroRNAs 29, 150, 155, 223 level and their relation to viral and immunological markers in HIV-1 infected naive patients. *Future Virology*. 2018 Sep; 13(09):637-45.
13. Keyvani H, Moghoofei M, Bokharai-Salim F, Mostafaei S, Mousavi SA, Monavari SH, Esghaei M. Prevalence of respiratory viruses in Iranian patients with idiopathic pulmonary fibrosis. *Journal of medical microbiology*. 2017 Nov 1; 66(11):1602-6.
14. Karimi M, Mirshekari H, Basri SM, Bahrami S, Moghoofei M, Hamblin MR. Bacteriophages and phage-inspired nanocarriers for targeted delivery of therapeutic cargos. *Advanced drug delivery reviews*. 2016 Nov 15; 106:45-62.
15. Moghoofei M, Fazeli H, Poursina F, Esfahani BN, Moghim S, Vaez H, Hadifar S, Safaei HG. Morphological and bactericidal effects of amikacin, meropenem and imipenem on

*Pseudomonas aeruginosa*. Jundishapur journal of microbiology. 2015 Nov; 8(11).

### Books

2022  
2017

- Chapter: Virus, Exosome, and MicroRNA: New Insights into Autophagy. Springer 2022.
- Clinical Virology, Baresh Publication, 2017.

### Conference Papers

2024

- The Possible Role of Viral Infection in chronic endometritis. The ASV 2024 virtual meeting.

2022

- The Possible Role of Viral Infection in Pathogenesis and Progression of Idiopathic Pulmonary Fibrosis. The ASV 2022 virtual meeting (P11-7).

2020

- Study of relationship between Parvovirus B19 Gene expression and increased inflammation and Thyroid Disease. 8th international congress of Laboratory and Clinic, Tehran, Iran. Oral Presentation.

2016

- Molecular Epidemiology of Rotavirus Gastroenteritis Strains in Iranian Children during 2015–2016. 10th International Congress of Clinical Microbiology, Sanandaj, Iran. Oral Presentation.

2015

- The identification and antimicrobial resistance of *Pseudomonas aeruginosa* in burn patients referring to Emam Mousa Kazem Hospital- Isfahan. 7th International Congress of Clinical Microbiology, Shiraz, Iran. Poster

2014

- Effects of environmental conditions on the morphologic change of *Pseudomonas aeruginosa* and its association with antibiotic resistance in burn patients. 7th international congress of Laboratory and Clinic and 1st Conference of Clinical Virology. Tehran, Iran. Poster

2012

- Effects of environmental conditions on the induction of the *Pseudomonas aeruginosa* coccoid form. 2nd Iranian congress of Medical Bacteriology. Tehran, Iran. Poster

### Teaching Experiences

- **Virology:**

a. Clinical Course: Medical Doctor, Dentistry, Pharmacology and Medical Laboratory Sciences

b. Basic course: B.Sc., M.Sc. and Ph.D. course

c. Practical Virology: B.Sc., M.Sc. and Ph.D. course

- **Cell and Molecular Biology:** M.Sc. of Microbiology

- **Oral infections:** Ph.D. course

### Journal Reviewer and Editor

- **Reviewer:** Journal of Antimicrobial Chemotherapy, The Journal of Infectious Diseases, Cells Journal, Microbial Pathogenesis, Tumor Biology, BMC Cancer, Immunopharmacology and Immunotoxicology, Pathology-Research and Practice.

- **Editor (Guest):** Genes Journal