



Milad Zandi

Email: Miladzandi416@gmail.com

Phone: (+98) 9372876578

Summary

- Member of the Board of Directors of the Iranian Virology Association
- Ph.D. in Virology, with strong communication skills developed from extensive teaching experience and ability to work independently or as part of a team.
- Strong knowledge and skills in various aspects of virology, molecular biology, immunology, and nanobiotechnology.
- Extensive hands-on experience in conducting experiments and research

Qualifications

- 1- September 2017- November 2022
Tehran University of Medical Sciences: Tehran
Ph.D. in Virology
2. September 2013- December 2016
Ahvaz Jundishapur University of Medical Sciences: Ahvaz
Master in Virology
3. September 2009- December 2012
Islamic Azad University: Sanandaj
Bachelor in Microbiology

Skills & Experience

Cloning
PCR/Real time PCR
SDS-PAGE and Western Blotting
Mammalian, Insect, Bacterial, and Yeast expression systems
Cell culture
MTT assay
Immunological assays
Animal Experience: Working with Mice and Rabbits
Designing Multi-epitope vaccines
Designing DNA vaccines
Nanoparticles synthesis
X-Ray Diffraction
Scanning Electron Microscope
Transmission Electron Microscopy
DLS method

Research Experience

PhD Project: Adjuvanticity Evaluation of Cerium Nanoparticles in Animal Rabies Vaccine (*Pasteur Institute of Iran*)

Master Project: Production Recombinant Protein VP7 Rotavirus Strain RF and Produce Antibody Against of it in Rabbit Model. (*Ahvaz Jundishapur University of Medical Sciences*)

Presentation in international meeting

- The role of SARS-CoV-2 accessory proteins in immune evasion. 2023, (**First International Congress on COVID -19 World Experiences**)
- Challenges among virus an Nrf2 signaling pathway. 2017. (**10th International Congress of Laboratory and Clinic**).
- Challenging for expression bovine rotavirus full-length VP7 protein in prokaryotic system . 2016. (**9th International Congress of Laboratory and Clinic**).

Projects

- 1- Improve sensitivity of rapid tests of SARS-CoV-2 virus detection using a novel metagenomics method; a collaborative study between Iranian Network for Research in Viral Diseases (INRVD) and Medical University of Vienna (MUV). (IR.TUMS.MEDICINE.REC.1399.1261), Tehran University of Medical Sciences.
- 2- Characterization of Immunogenic Factors influencing Multisystem Inflammatory Syndrome (MIS-C) in Iranian Covid-19 Pediatrics by using Whole-Exome Sequencing. (IR.TUMS.MEDICINE.REC.1399.916), Tehran University of Medical Sciences.
- 3- Comparison of clinical, laboratory and imaging criteria between hospitalized patients and dead patients due to severe acute respiratory syndrome Corona Virus 2019 (COVID-19) in Iran. (IR.TUMS.VCR.REC.1399.599), Tehran University of Medical Sciences
- 4- Clinical and molecular epidemiology of COVID-19 along with the production of 3 diagnostic elements about the circulating virus in Iran; a multicenter, national wide study. (IR.TUMS.VCR.REC.1399.378), Tehran University of Medical Sciences.
- 5- Molecular Evaluation of Co-infection between SARS-CoV-2 and Community-Acquired Pneumonia (CAP) in COVID-19 patients in Abadan. (IR.ABADANUMS.REC.1399.156), Abadan University of Medical Sciences.
- 6- Evaluation of co-infection with SARS-COV-2 and influenza A virus in patients with covid-19 disease. (IR.ABADANUMS.REC.1399.137), Abadan University of Medical Sciences.
- 7- Investigating the adjuvant properties of cerium nanoparticles in animal rabies vaccine (IR.TUMS.SPH.REC.1398.181), Tehran University of Medical Sciences.
- 8- Phylogenetic analysis and genetic diversity of SARS coronavirus-2 from fecal samples of patients with Covid-19 disease. (IR.ABADANUMS.REC.1399.093), Abadan University of Medical Sciences.
- 9- Systematic review of the role of different genotypes of human papillomavirus in retinoblastoma. (IR.HUMS.REC.1400.277, Hormozgan University of Medical Sciences
- 10- Measurement of antibody level against vaccines injected against SARS Cov2 virus in health care personnel of medical centers in the country, (IR.TUMS.MEDICINE.REC.1400.583), Tehran University of Medical Sciences
- 11- Identification of microbial pathogens in patients with respiratory tract infection using Multiplex Real-Time Polymerase Reaction (PCR) technique (IR.TUMS.SPH.REC.1400.165), Tehran University of Medical Sciences.
- 12- Evaluation of co-infection rotavirus with SARS-COV-2 in patients with covid-19 disease with gastrointestinal symptoms and gastroenteritis in Abadan city. (IR.ABADANUMS.REC.1399.123), Abadan University of Medical Sciences
- 13- Design and production of educational software for the prevention and control of mobile-based viral hepatitis in the Android system, (IR.ABADANUMS.REC.1399.084), Abadan University of Medical Sciences
- 14- Comparison of the effect of Covid-19 pandemic on the vaccination status of children in the first six months of 1999 and the first six months of 1998 in Abadan health centers

- (IR.ABADANUMS.REC.1399.148), Abadan University of Medical Sciences
- 15- Evaluation of gastrointestinal symptoms caused by SARS coronavirus-2 in patients with Covid-19: Systematic review and meta-analysis, (IR.TUMS.SPH.REC.1399.184), Tehran University of Medical Sciences
 - 16- An overview of Covid-19 and its effects on the liver. (IR.HUMS.REC.1399.563), Hormozgan University of Medical Sciences
 - 17- Evaluation of neurological symptoms caused by SARS coronavirus-2 in patients with Covid-19: A systematic review, (IR.TUMS.MEDICINE.REC.1399.1134), Tehran University of Medical Sciences
 - 18- Investigating the role of SARS-CoV-2 accessory proteins in the pathogenesis of Covid-19. (IR.ABADANUMS.REC.1401.061), Abadan University of Medical Sciences
 - 19- The role of lipids in the pathogenesis of viral gastroenteritis. (IR.ABADANUMS.REC.1401.010), Abadan University of Medical Sciences
 - 20- Systematic review of classical and molecular diagnosis methods of lymphocytic choriomeningitis virus. (IR.ABADANUMS.REC.1400.121), Abadan University of Medical Sciences
 - 21- Determination of serum levels of neutralizing and anti-spike antibodies and evaluation of cellular immunity following SARS-Cov-2 Vaccination in Iranian Health Care Workers in Tehran Province. (IR.TUMS.MEDICINE.REC.1400.1119), Tehran University of Medical Sciences
 - 22- SARS-CoV-2 infection in children and adults, (IR.ABADANUMS.REC.1400.011), Abadan University of Medical Sciences
 - 23- Biosensors for detection of Crimean-Congo hemorrhagic fever virus. (IR.ABADANUMS.REC.1399.217), Abadan University of Medical Sciences
 - 24- Co-infection of SARS-CoV-2 and respiratory syncytial virus in children. (IR.ABADANUMS.REC.1399.218), Abadan University of Medical Sciences

Grants

- 1- January 2021-February 2022, Tehran University of Medical Sciences, 11,250,000 Rial. (US \$265.165). This research grant focused on the evaluation of neurological symptoms caused by SARS-CoV-2 in patients with COVID-19.
- 2- November 2020-October 2021, Abadan University of Medical Sciences, 99,900,000 Rial. (US \$2,356.15). This research focused on the molecular evaluation of co-infection between SARS-CoV-2 and Community Acquired Pneumonia (CAP) in COVID-19 patients in Abadan City.
- 3- September 2020-March 2023, Abadan University of Medical Sciences, 99,900,000 Rial. (US \$2,356.15). This research focused on the evaluation of co-infection rotavirus with SARS-COV-2 in patients with COVID-19 disease with gastrointestinal symptoms and gastroenteritis in Abadan City.
- 4- September 2020-July 2021, Tehran University of Medical Sciences, 86,800,000 Rial. (US \$2,048.69). This research grant focused on the design, creation, and evaluation of mobile

- software for the prevention and control of Crimen Congo fever based on mobile.
- 5- June 2020-October 2020, Tehran University of Medical Sciences, 60,000,000 Rial. (US \$1,416.15). This research grant focused on designing, creating, and evaluating the educational software for the nCovid2019 coronavirus as the cause of respiratory disease "identification, prevention and control" based on mobile phones with the aim of increasing awareness and informing society.

Books

Number	Title	Publisher	ISBN
1	The Challenge of Protein Purification: Principles and Methods	Yazd Shahid Sadoughi University of Medical Sciences	9789648444537
2	An overview on viral diagnosis, workplace health, and immunology	Abadan University of Medical Sciences	9786222491086
3	An overview of the world of viruses	Ahwaz Medical Science and Technology Publications	9786222490706

Reviewer of Journals

	Journal	Impact Factor
1	Lancet Infectious Disease	71
2	Journal of Medical Virology	21
3	Reviews in Medical Virology	11.04
4	Frontiers in Immunology	8.78
5	International Journal of Nanomedicine	7.03
6	Infection	7.4
7	Journal of Inflammation Research	6.922
8	Annals of Clinical Microbiology and Antimicrobials	6.78
9	Frontiers in Public Health	6.46
10	Infectious Disease and Therapy	6.11
11	Scientific Reports	4.9
12	Frontiers in Cellular and Infection Microbiology	6.07
13	Virology journal	5.9
14	Frontiers in Pharmacology	5.92
15	Viruses	5.81
16	Expert Review of Neurotherapeutics	4.28
17	Journal of Oral Microbiology	5.83
18	Annals of Medicine	5.34
19	Vaccines	4.9
20	Infection and Drug Resistance	4.00
21	Frontiers in Genetics	4.7
22	Pathogens	4.53
23	BMC Public Health	4.13
24	Frontiers in Public Health	6.04
25	Journal of NeuroVirology	3.73
26	Heliyon	3.77
27	Diagnostics	3.70
28	Frontiers in Veterinary Science	3.47
29	Acta Neuropsychiatrica	3.40
30	Naunyn-Schmiedeberg's Archives of Pharmacology	3.19
31	Future Virology	3.1
32	Immunity, Inflammation and Disease	2.4
33	Journal of Biological Physics	1.56
34	Asian Biomedicine	1.4
35	Journal of Biosafety and Biosecurity	-
36	Clinical Epidemiology and Global Health	-

Student Advisor

Number	Thesis title	Student	University
1	Comparison of the effect of Covid-19 pandemic on the vaccination status of children in the first six months of 1399 and the first six months of 1398 in Abadan health centers	Medical student	Abadan university of medical sciences
2	Design and production of educational software for the prevention and control of mobile-based viral hepatitis in the Android system	Medical student	Abadan university of medical sciences

Awards

Number	Award	Topic	Date/Place
1	Outstanding Scientist Award	International Conference for Award Winners on Engineering, Science and Medicine	July 2023/ India
1	Best Researcher Award	International Research Awards on New Science Inventions	25 January 2023, India
2	Best Researcher Award	Neurology and Neuro Disorders Conference	12 December 2022 Dubai, United Arab Emirates

Invited Chapters

Number	Title	Publisher	Editor
1	Vaccine Strategies against Neurotropic Viral Infections	Springer Nature	Prof. Shapshak
2	Neurological manifestation of human monkeypoxvirus reemergence	Springer Nature	Prof. Shapshak
3	Nano-vaccines in neuronal viral infections	Springer Nature	Prof. Shapshak

Editorial Board Experiences

Number	Journal	Impact Factor	Position
1	Reviews in Medical Virology	11.04	Associate Editor
2	Frontiers in Public Health	6.46	Associate Editor
3	Frontiers in Microbiology	6.06	Review Editor
4	Frontiers in Pharmacology	5.98	Associate Editor
5	BMC Microbiology	4.46	Associate Editor
6	PLOS ONE	3.75	Associate Editor
7	Future Virology	3.01	Associate Editor
8	International Conference on Network Science and Graph Analytics	International Conference	Editorial Board Member

Courses

	Name of course	Institution
1	Vaccine Safety Basics	World Health Organization (WHO)
2	SARS-CoV-2 antigen rapid diagnostic testing	World Health Organization (WHO)
3	Leadership and programme management in Infection Prevention and Control (IPC)	World Health Organization (WHO)
4	Malaria elimination	World Health Organization (WHO)
5	Rapid diagnostics for tuberculosis detection	World Health Organization (WHO)
6	Monkeypox: Lessons Learned and Strategies Moving Forward	New England Public Health
7	Monkeypox: Epidemiology, Clinical Features, Challenges and Opportunities	Public Health Training Center
8	Measles and rubella outbreak preparedness and response in SEARO	World Health Organization (WHO)

Memberships

American Society for Virology
European Society for Virology
World Society for Virology
Japanese Society for Virology
American Society for Microbiology
African Society for Laboratory Medicine
Infectious Disease Association of California
Applied Microbiology International
Infectious Disease Association of California
NASA Astrobiology Research Coordination Network

Publications

- 1- **Zandi M***. ORF9c and ORF10 as accessory proteins of SARS-CoV-2 in immune evasion. **Nature Reviews Immunology**. 2022 May;22(5):331-.
- 2- Sanami S, **Zandi M**, Pourhossein B, Mobini GR, Safaei M, Abed A, Arvejeh PM, Chermahini FA, Alizadeh M. Design of a multi-epitope vaccine against SARS-CoV-2 using immunoinformatics approach. **International journal of biological macromolecules**. 2020 Dec 1;164:871-83.
- 3- **Zandi M**, Soltani S, Tabibzadeh A, Nasimzadeh S, Behboudi E, Zakeri A, Erfani Y, Salmanzadeh S, Abbasi S. The SARS-CoV-2 NSP-2, NSP-12 and Spike partial sequence conservation in stool samples from Abadan, Iran. **Biotechnology and Applied Biochemistry**. 2022 Apr 9.
- 4- Mohammadi B, Dua K, Saghafi M, Singh SK, Heydarifard Z, **Zandi M***. COVID-19-induced autoimmune thyroiditis: Exploring molecular mechanisms. **Journal of Medical Virology**. 2023 Aug;95(8):e29001.
- 5- Emadi MS, Soltani S, Noori B, **Zandi M**, Shateri Z, Tabibzadeh A, Behboudi E, Erfani Y, Tabaeian SP, Pourhossein B, Didehdar M. Highly conserve sequences in envelope, nucleoprotein and RNA-dependent RNA polymerase of SARS-CoV-2 in nasopharyngeal samples of the COVID-19 patients; a diagnostic target for further studies. **Journal of Cellular & Molecular Anesthesia**. 2022;7(2):78-83.
- 6- **Zandi M***, Shafaati M, Shenagari M, Naziri H. Targeting CD47 as a therapeutic strategy: A common bridge in the therapy of COVID-19-related cancers. **Heliyon**. 2023 Jul 4.
- 7- Kumari V, Vishwas S, Kumar R, Kakoty V, Khursheed R, Babu MR, Harish V, Mittal N, Singh PK, Alharthi NS, Hakami MA, **Zandi M**. An overview of biomedical applications for gold nanoparticles against lung cancer. **Journal of Drug Delivery Science and Technology**. 2023 Jul 3:104729.
- 8- Soltani S, Shahbahrani R, Jahanabadi S, Siri G, Emadi MS, **Zandi M***. Possible role of CNS microRNAs in Human Mpox virus encephalitis—a mini-review. **Journal of NeuroVirology**. 2023 Mar 24:1-6.
- 9- Hatami H, Jamshidi P, Arbabi M, Safavi-Naini SA, Farokh P, Izadi-Jorshari G, Mohammadzadeh B, Nasiri MJ, **Zandi M**, Nayebzade A, Sechi LA. Demographic, Epidemiologic, and Clinical Characteristics of Human Monkeypox Disease Pre-and Post-2022 Outbreaks: A Systematic Review and Meta-Analysis. **Biomedicine**. 2023 Mar 20;11(3):957.
- 10- Hosseini F, **Zandi M**, Behboudi E, Salmanzadeh S, Rasooli A, Abbasi A, Abbasi S. Application of Biosensors in Diagnosis of Human Parvoviruses. **Journal of Liaquat University of Medical and Health Sciences**. 2023 Mar.
- 11- Shafaati M, **Zandi M***, Choudhary OP. Impact of epigenetic mechanisms in re-emerging viruses. **Travel Medicine and Infectious Disease**. 2023 Mar;52:102535.
- 12- **Zandi M***, Shafaati M, Shapshak P, Hashemnia SM. Monkeypox virus replication underlying circadian rhythm networks. **Journal of NeuroVirology**. 2023 Jan 31:1-7.
- 13- **Zandi M***, Shafaati M, Hosseini F. Mechanisms of immune evasion of monkeypox virus. **Frontiers in Microbiology**. 2023 Feb 1;14:160.
- 14- Halvaei P, Zandi S, **Zandi M***. Biosensor as a novel alternative approach for early diagnosis of monkeypox virus. **International Journal of Surgery**. 2023 Jan

- 1;109(1):50-2.
- 15-**Zandi M**, Shafaati M, Kalantar-Neyestanaki D, Pourghadamyari H, Fani M, Soltani S, Kaleji H, Abbasi S. The role of SARS-CoV-2 accessory proteins in immune evasion. **Biomedicine & Pharmacotherapy**. 2022 Oct 17:113889.
 - 16-**Zandi M**, Hosseini F, Adli AH, Salmanzadeh S, Behboudi E, Halvaei P, Khosravi A, Abbasi S. State-of-the-art cerium nanoparticles as promising agents against human viral infections. **Biomedicine & Pharmacotherapy**. 2022 Dec 1;156:113868.
 - 17-**Zandi M**, Adli AH, Shafaati M. Comments on "Diagnosis of monkeypox virus—An overview". **Travel Medicine and Infectious Disease**. 2022 Nov 29.
 - 18-Shafaati M, Sadeghniai K, Najafia A, **Zandi M**, Akbarpour S, Choudhary OP. The relevance of the circadian timing system role in patients with HIV/AIDS: a quick glance. **International Journal of Surgery**. 2023 Mar 17:10-97.
 - 19-**Zandi M**, Hashemnia SM, Shafaati M. The microbiota-gut-brain axis and circadian rhythms in Parkinson's disease. **International Journal of Surgery**. 2022 Dec 1;108:106978.
 - 20-Shafaati M, **Zandi M***. Human monkeypox (hMPXV) re-emergence: Host immunity status and current vaccines landscape. **Journal of Medical Virology**. 2023 Jan;95(1):e28251.
 - 21-Shafaati M, **Zandi M***. State-of-the-art on monkeypox virus: an emerging zoonotic disease. **Infection**. 2022 Dec;50(6):1425-30.
 - 22-Shafaati M, **Zandi M***, Choudhary OP. Monkeypox virus crosstalk with HIV; where do we stand now?. **International Journal of Surgery**. 2022 Sep 1;105:106897.
 - 23-**Zandi M***, Behboudi E, Shojaei MR, Soltani S, Karami H. Letter to the Editor Regarding" An Overview on Serology and Molecular Tests for COVID-19: An Important Challenge of the Current Century (doi.
 - 24-**Zandi M***, Soltani S. Comment on Alfassam et al. Development of a Colorimetric Tool for SARS-CoV-2 and Other Respiratory Viruses Detection Using Sialic Acid Fabricated Gold Nanoparticles. *Pharmaceutics* 2021, 13, 502. **Pharmaceutics**. 2022 Sep 5;14(9):1871.
 - 25-Shafaati M, **Zandi M***. Monkeypox virus neurological manifestations in comparison to other orthopoxviruses. **Travel Medicine and Infectious Disease**. 2022 Sep 1;49:102414.
 - 26-Sari A, **Zandi M**, Fani M, Pahlavanzadeh B, Asadi M, Maghsoudi F, Abbasi S, Norouzi F. Comparison of the effect of COVID-19 pandemic on the vaccination status of children in years of 2019 and 2020 in Abadan health centers, Iran. **Journal of Jahrom University of Medical Sciences**. 2023 Mar 10;20(1):0-.
 - 27-**Zandi M***, Shokri S, Mahmoudvand S, Hosseinzadeh Adli A, Mohammadi R, Haddadi A. Interplay between cellular metabolism and DNA viruses. **Journal of Medical Virology**. 2022 Nov;94(11):5163-73.
 - 28-Emadi MS, Soltani S, Noori B, **Zandi M**, Shateri Z, Tabibzadeh A, Behboudi E, Erfani Y, Tabaeian SP, Pourhossein B, Didehdar M. Highly conserve sequences in envelope, nucleoprotein and RNA-dependent RNA polymerase of SARS-CoV-2 in nasopharyngeal samples of the COVID-19 patients; a diagnostic target for further studies. **Journal of Cellular & Molecular Anesthesia**. 2022;7(2):78-83.
 - 29-**Zandi M**, Alizadeh I, Soltani S, Vali M, Ebrahimi S, Abbasi S. *Design and Development of a Mobile Application for the Control and Prevention of Viral Gastroenteritis as a Public Health Problem*. **Journal of Liaquat University of Medical and Health Sciences**
 - 30-**Zandi M**, Soltani S, Tabibzadeh A, Nasimzadeh S, Behboudi E, Zakeri A, Erfani Y, Salmanzadeh S, Abbasi S. The SARS-CoV-2 NSP-2, NSP-12 and Spike partial sequence conservation in stool samples from Abadan, Iran. **Biotechnology and Applied**

Biochemistry. 2022 Apr 9.

- 31-Rezaee Azhar I, Yaqhoobi M, Mossalaeie MM, Kollaee Darabi A, Nejadeh AH, Jamshidi M, Ahani A, Karkhane Mahmoodi M, Ghalichi L, **Zandi M**, Shabanzadeh A, Ataei-Pirkooh A. Prevalence of human papilloma virus (HPV) genotypes between outpatients males and females referred to seven laboratories in Tehran, Iran. **Infectious Agents and Cancer**. 2022 Dec;17(1):1-8.
- 32-**Zandi M***, Behboudi E, Zeinali P, Soltani S, Shojaei MR. Ribosome Profiling: A Useful Approach to Discover Hidden Corners of SARS-CoV-2. **Cell Journal**. 2022 Feb;24(2):103.
- 33-Kamali P, **Zandi M**, Ghasemzadeh-Moghaddam H, Fani M. Comparison between various biosensor methods for human T-lymphotropic virus-1 (HTLV-1) detection. **Molecular Biology Reports**. 2022 Feb;49(2):1513-7.
- 34-Soltani S, **Zandi M**, Faramarzi S, Shahbahrami R, Vali M, Rezayat SA, Pakzad R, Malekifar P, Pakzad I, Jahandoost N, Moludi J. Worldwide prevalence of fungal coinfections among COVID-19 patients: a comprehensive systematic review and meta-analysis. **Osong Public Health and Research Perspectives**. 2022 Feb;13(1):15.
- 35-**Zandi M**, Fazeli M, Bigdeli R, Asgary V, Cohan RA, Bashar R, Shahmahmoodi S. Preparation of Cerium Oxide Nanoparticles and Their Cytotoxicity Evaluation In vitro and In vivo. **International Journal of Medical Toxicology and Forensic Medicine**.;12(1):35374-.
- 36-Ebrahimi S, Khanbabaei H, Abbasi S, Fani M, Soltani S, **Zandi M**, Najafimemar Z. CRISPR-Cas system: A promising diagnostic tool for Covid-19. **Avicenna journal of medical biotechnology**. 2022 Jan;14(1):3.
- 37-Hosseini P, Afzali S, Karimi M, **Zandi M**, Zebardast A, Latifi T, Tabibzadeh A, Ramezani A, Zakeri A, Zakeri A, Abedi B. The coronavirus disease 2019 and effect on liver function: a hidden and vital interaction beyond the respiratory system. **Reviews in Medical Microbiology**. 2022 Jan 1;33(1):e161-79.
- 38-**Zandi M***, Fani M. Target genes used for biosensor development in COVID-19 diagnosis. **Biosensors and Bioelectronics**. 2022 Mar 15;200:113924.
- 39-**Zandi M***. Diagnosis of COVID-19: hemagglutinin-esterase gene is used for molecular assays?. **Expert Review of Molecular Diagnostics**. 2022 Feb 1;22(2):135-.
- 40-Soltani S, Zakeri A, Pakzad I, Tabibzadeh A, Zakeri AM, **Zandi M**, Rezayat SA, Jafarzadeh M, Asl PK, Zebardast A, Erfani Y. Gastrointestinal Manifestations of the COVID-19: A Systematic Review and Meta-Analysis with 111 studies. **Journal of Biostatistics and Epidemiology**. 2021 Dec 15;7(4):321-43.
- 41-**Zandi M**, Soltani S, Fani M, Shafipour H, Abbasi S. The Comparison of Susceptibility to SARS-CoV-2 Infection between Pediatric and Adults. **International Journal of Medical Laboratory**. 2021 Dec 22.
- 42-**Zandi M***. ORF8/ORF8a: a difference between SARS-CoV-2 and SARS-CoV. **European Respiratory Journal**. 2022 Feb 1;59(2).
- 43-Pakzad R, Malekifar P, Shateri Z, **Zandi M**, Akhavan Rezayat S, Soleymani M, Karimi MR, Ahmadi SE, Shahbahrami R, Pakzad I, Abdi F. Worldwide prevalence of microbial agents' coinfection among COVID-19 patients: A comprehensive updated systematic review and meta-analysis. **Journal of Clinical Laboratory Analysis**. 2022 Jan;36(1):e24151.
- 44-**Zandi M**, Rasooli A, Soltani S, Teymouri S, Mohammadi S, Abbasi S. Biosensor-based methods for Crimean-Congo hemorrhagic fever virus detection. **Journal of vector borne diseases**. 2021 Oct 1;58(4):383.

- 45-Soltani S, **Zandi M**, Ahmadi SE, Zarandi B, Hosseini Z, Rezayat SA, Abyadeh M, Pakzad I, Malekifar P, Pakzad R, Mozhgani SH. Pooled prevalence estimate of ocular manifestations in COVID-19 patients: a systematic review and meta-analysis. **Iranian Journal of Medical Sciences**. 2022 Jan;47(1):2.
- 46-Sedighi, I., Fahimzad, A., Pak, N., Khalili, M., Shokrollahi, M.R., Heydari, H., Movahedi, Z., Dashti, A.S, **Zandi M**, Cheraghali, F., Shamsizadeh, A. and Mirkarimi, M., 2022. A multicenter retrospective study of clinical features, laboratory characteristics, and outcomes of 166 hospitalized children with coronavirus disease 2019 (COVID-19): A preliminary report from Iranian Network for Research in Viral Diseases (INRVD). **Pediatric pulmonology**, 57(2), pp.498-507.
- 47-**Zandi M***, Soltani S, Hosseini P. Role of hemagglutinin esterase in replication of SARS-CoV-2. **Expert Opinion on Therapeutic Targets**. 2021 Oct 3;25(10):909-.
- 48-**Zandi M***, Karami H. Role of ORF8a as accessory protein in apoptosis induction in SARS-CoV-2 infection. **Reviews in Medical Virology**. 2022 May;32(3).
- 49-**Zandi M***, Hosseini P, Soltani S, Rasooli A, Moghadami M, Nasimzadeh S, Behnezhad F. The role of lipids in the pathophysiology of coronavirus infections. **Osong Public Health and Research Perspectives**. 2021 Oct;12(5):278.
- 50-**Zandi M**, Soltani S, Fani M, Abbasi S, Ebrahimi S, Ramezani A. Severe acute respiratory syndrome coronavirus 2 and respiratory syncytial virus coinfection in children. **Osong Public Health and Research Perspectives**. 2021 Oct;12(5):286.
- 51-**Zandi M**, Farahani A, Zakeri A, Akhavan Rezayat S, Mohammadi R, Das U, Dimmock JR, Afzali S, Nakhaei MA, Doroudi A, Erfani Y. Clinical symptoms and types of samples are critical factors for the molecular diagnosis of symptomatic COVID-19 patients: a systematic literature review. **International journal of microbiology**. 2021 Sep 6;2021.
- 52-**Zandi M***. Planarian secretory cell nidovirus: The largest genome of RNA viruses. **Reviews in Medical Virology**. 2022 Sep;32(5):e2293.
- 53-Malekifar P, Pakzad R, Shahbahrami R, **Zandi M**, Jafarpour A, Rezayat SA, Akbarpour S, Shabestari AN, Pakzad I, Hesari E, Farahani A. Viral coinfection among COVID-19 patient groups: an update systematic review and meta-analysis. **BioMed research international**. 2021 Sep 3;2021.
- 54-**Zandi M***. Severe acute respiratory syndrome-2 encodes hemagglutinin esterase?. **Reviews in Medical Virology**. 2022 May;32(3).
- 55-Soltani S, Tabibzadeh A, Yousefi P, **Zandi M**, Zakeri A, Akhavan Rezayat S, Ramezani A, Esghaei M, Farahani A. HPV infections in retinoblastoma: a systematic review. **Journal of Clinical Laboratory Analysis**. 2021 Oct;35(10):e23981.
- 56-Kesheh MM, Hosseini P, Soltani S, **Zandi M***. An overview on the seven pathogenic human coronaviruses. **Reviews in Medical Virology**. 2022 Mar;32(2):e2282.
- 57-**Zandi M***, Behboudi E, Soltani S. Can the seasonal influenza vaccine for 2019/2020 have cross reactivity with some of the SARS-CoV-2 proteins?. **International Journal of Infectious Diseases**. 2021 Sep 1;110:235-6.
- 58-Fahimzad A, Sedighi I, Pak N, Khalili M, Farahmand M, Shokrollahi MR, Heydari H, Movahedi Z, Dashti AS, **Zandi M**, Cheraghali F, Shamsizadeh A. A comparative analysis of clinical characteristics and laboratory findings of COVID-19 between intensive care unit and non-intensive care unit pediatric patients: a multicenter, retrospective, observational study from Iranian network for research in viral diseases (INRVD).
- 59-Soltani S, Faramarzi S, **Zandi M**, Shahbahrami R, Jafarpour A, Rezayat SA, Pakzad I, Abdi F, Malekifar P, Pakzad R. Bacterial coinfection among coronavirus disease 2019

- patient groups: an updated systematic review and meta-analysis. **New Microbes and New Infections**. 2021 Sep 1;43:100910.
- 60-Soltani S, **Zandi M**. miR-200c-3p upregulation and ACE2 downregulation via bacterial LPS and LTA as interesting aspects for COVID-19 treatment and immunity. **Molecular Biology Reports**. 2021 Jul;48(7):5809-10.
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