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Mohsen Moghoofei, Ph.D., Medical Virology, Assistant Professor.

Education

Feb 2013 – Feb 2018 Iran University of Medical Sciences, PhD, Medical Virology, Tehran, Iran

Sep 2011 – Dec 2013 Isfahan University of Medical Sciences, MSc, Medical Microbiology, Isfahan, Iran

Sep 2007 – June 2011 Razi University, BSc, Biology, Kermanshah, Iran

Mohsen Moghoofei received his BSc degree in Biology from the Razi University, in 2011. In 2013, he achieved the MSc degree in Medical Microbiology from Isfahan University of Medical Science and joined the Iran University of Medical Science as a PhD student in the Virology field and completed his research in 2018. He has joined Professor Karimi's Nanobiotechnology Research lab in the Iran University of Medical Science, Tehran, Iran, in association with Professor Hamblin from Harvard Medical School, Boston, USA; working on smart micro/nanocarriers applied in therapeutic agent delivery systems employed for diagnosis and therapy of various diseases and disorders such as cancers and malignancies, inflammations, infections, etc. On finishing the study, he joined, as Assistant Professor, the Department of Microbiology at Kermanshah University of Medical Science

(KUMS). His current research interests include smart viral nanoparticles' design in drug/gene delivery and correlation between virus and cancer.

Skills & Activities

-Skills

Molecular Biological Techniques, Immunofluorescence Microscopy, Molecular Cloning, Cell Culture, Genotyping, PCR, Protein Expression, Electrophoresis, Immunoassay, Transfection, Gene Expression, Real-Time PCR, Host Pathogen interaction, Microbiology, Sequencing, Immunology Protocols, Invert microscopy

-Interests

Viruses and Cancer, microRNA, Immunovirology, Gene and Drug Delivery by Viruses

Publications

2018

1. Fatemeh Farjadian, **Mohsen Moghoofei**, Soroush Mirkiani, Amir Ghasemi, Navid Rabiee, Shima Hadifar, Ali Beyzavi, Mahdi Karimih, i, Michael R. Hamblin. *Bacterial components as naturally inspired nano-carriers for drug/gene delivery and immunization: Set the bugs to work?. **Biotechnology Advances 2018 (IF; 11.8).***
2. Ahmad Tavakoli, Angila Ataei-Pirkooh, Gity MM Sadeghi, Farah Bokharaei-Salim, Peyman Sahrapour, Seyed J Kiani, **Mohsen Moghoofei**, Mohammad Farahmand, Davod Javanmard & Seyed H Monavari. *Polyethylene glycol-coated zinc oxide nanoparticle: an efficient Nano weapon to fight against herpes simplex virus type 1. **Nanomedicine 2018 (IF; 5.0).***
3. **Mohsen Moghoofei**, Shayan Mostafaei, Abolfazl Nesaei, Ashkan Etemadi, Javid Sadri Nahand, Hamed Mirzaei, Bahman Rashidi, Farhad Babaei, Nilofar Khodabandehlou. *Epstein-Barr virus and Thyroid Cancer: The Role of Viral Expressed Proteins. **Journal of Cellular Physiology 2018 (IF; 3.9).***
4. Javid Sadri Nahand, Farah Bokharaei-Salim, Arash Salmaninejad, Abolfazl Nesaei, Fatemeh Mohajeri, Azadeh Moshtzan, Alireza Tabibzadeh, Mohammad Karimzadeh, **Mohsen Moghoofei**, Arezo Marjan, Shoeleh Yaghoubi5 | Hossein Keyvani. *microRNAs: Key players in virus-associated hepatocellular carcinoma. **Journal of Cellular Physiology 2018 (IF; 3.9).***

5. Nilofar Khodabandehlou, Shayan Mostafaei, Ashkan Etemadi, Amir Ghasemi, Mehrdad Payandeh, Shima Hadifar, Amir Hossein Norooznezhad, Anoshiravan Kazemnejad, **Mohsen Moghoofei**. *Human Papilloma Virus and Breast Cancer: The Role of Inflammation and Viral Expressed Proteins*. **BMC Cancer 2018 (IF; 3.2) (Corresponding Author) Accepted.**
6. Mohsen Keshavarz, Hassan Dianat-Moghadam, Vahideh Hamidi Sofiani, Mohammad Karimzadeh, **Mohsen Moghoofei**, Saied Ghorbani, Javid Sadri nahand and Hammed Mirzaei. *MiRNA-Based Strategy for Modulation of Influenza A virus infection*. **Epigenomics 2018 (IF; 4.9).**
7. **Mohsen Moghoofei**, Shayan Mostafaei, Amir Ashraf-Ganjouei, Hoda Kavosi, Mahdi Mahmoudi. *HBV reactivation in rheumatic diseases patients under therapy: A metaanalysis*. **Microbial Pathogenesis 2018 (IF; 2.3).**
8. **Mohsen Moghoofei**, Seyed Hamidreza Monavari, Shayan Mostafaei, Shima Hadifar, Amir Ghasemi, Farhad Babaei, Hoda Kavosi, Ahmad Tavakoli, Davod Javanmard, Maryam Esghaei, Nilofar Khodabandehlou. *Prevalence of influenza A infection in the Middle-East: A systematic review and meta-analysis*. **The Clinical Respiratory Journal 2018 (IF; 2.2).**
9. **Mohsen Moghoofei**, Farah Bokharaei-Salim, Maryam Esghaei, Hossein Keyvani, Maryam Honardoost, Shayan Mostafaei, Amir Ghasemi, Ahmad Tavakoli, Davod Javanmard, Farhad Babaei, Saba Garshasbi, Seyed Hamidreza Monavari. *microRNAs 29, 150, 155, 223 level and their relation to viral and immunological markers in HIV-1 infected naive patients*. **Future Virology 2018 (IF; 1.1).**
10. Ghasem, F, Hesari A, Salarinia R, Sadri Nahand, **Mohsen Moghoofi**, Mirzaei H. *MicroRNA as a critical player in Hepatitis C virus infection*. **Critical Reviews in Eukaryotic Gene Expression 2018 (IF; 1.7).**
11. Maryam Esghaei, **Mohsen Moghoofei**, Mohsen Keshavarz, Hossein Keyvani Farah Bokharaei-Salim, Mohamad Farahmand, Seyed Hamidreza Monavari. *Trends in surveillance data of influenza virus in Tehran before decreasing dispatch of Iranian Hajj pilgrims to Mecca*. **Medical Journal of the Islamic Republic of Iran (MJIRI) 2018 (PubMed).**
12. Alisha Akya, Azam Elahi, **Mohsen Moghoofei**, Roya Chegenelorestani, Ahmad Nejati, Farhad Babaei. *Enterovirus Detection in Patients Suspected Aseptic Meningitis by RT-PCR in Kermanshah, Iran*. **Journal of Kerman University of Medical Sciences 2018 (Scopus).**

2017

1. Hossein Keyvani, **Mohsen Moghoofei**, Farah Bokharaei-Salim, Shayan Mostafaei, Seyed-Ali Javad Mousavi, Seyed Hamidreza Monavari and Maryam Esghaei. *Prevalence of respiratory viruses in Iranian patients with idiopathic pulmonary fibrosis*. **Journal of Medical Microbiology 2017 (IF; 2.1)**.
2. Habib Jafarinejad, **Mohsen Moghoofei**, Shayan Mostafaei, Jafar Salimian, Sadegh Azimzade Jamalkandi, Ali Ahmadi. *Worldwide prevalence of viral infection in AECOPD patients: A metaanalysis*. **Microbial Pathogenesis 2017 (IF; 2.3)**.
3. Mahdi Karimi, Parham Sahandi Zangabad, Fatemeh Mehdizadeh, Hedieh Malekzad, Alireza Ghasemi, Sajad Bahrami, Hossein Zare, **Mohsen Moghoofei**, Amin Hekmatmanesh, Michael R. Hamblin. *Nanocaged Platforms: Modification, Drug Delivery and Nanotoxicity Opening Synthetic Cages to Release the Tiger*. **Nanoscale 2017 (IF; 7.7)**.
4. Ashkan Etemadi, Shayan Mostafaei, Kheirollah Yari, Amir Ghasemi, Hamzeh Minaei Chenar and **Mohsen Moghoofei**. *Detection and a possible link between parvovirus B19 and thyroid cancer*. **Tumor Biology 2017 (IF; 3.6) (Corresponding Author)**.
5. Shima Hadifar, **Mohsen Moghoofei**, Shahrzad Nematollahi, Rashid Ramazanzadeh, Mansour Sedighi, Amin Salehi-Abargouei, and Ali Miri. *Epidemiology of multidrug resistant uropathogenic Escherichia coli in Iran: a systematic review and meta-analysis*. **Japanese Journal of Infectious Diseases 2017 (IF; 1.1)**.
6. Shima Hadifar, Mansour Sedighi, Shayan Mostafaei, Ali Miri, Kourosh Kabir, **Mohsen Moghoofei**. *Prevalence of Hepatitis E Infection in the General Population of Iran: A Systematic Review and Meta-Analysis*. **Future Virology 2017 (IF; 1.1) (Corresponding Author)**.
7. Ahmad Tavakoli, **Mohsen Moghoofei**, Shayan Mostafaei, Hadi Ghaffari, Khashayar Hesamizadeh, Heidar Sharafi, Seyed Hamidreza Monavari, Seyed Moayed Alavian. *Hepatitis B Infection in Hemodialysis Patients in EMRO Countries and the Middle East: A Systematic Review and Meta-Analysis*. **Future Virology 2017 (IF; 1.1)**.
8. Seyed Hamid Reza Monavari, Shima Hadifar, Shayan Mostafaei, Ali Miri, Mohsen Keshavarz, **Mohsen Moghoofei**. *Epidemiology of Rotavirus in the Iranian Children: A Systematic Review and Meta-Analysis*. **Journal of Global Infectious Disease 2017 (PubMed) (Corresponding Author)**.

9. Davod Javanmard, Masood Ziaee, Hadi Ghaffari, Mohammad Hasan Namaei, Ahmad Tavakoli, Hamidreza Mollaei, **Mohsen Moghoofei**, Helya Sadat Mortazavi, Seyed Hamidreza Monavari. *Human parvovirus B19 and parvovirus 4 among Iranian patients with hemophilia*. **BLOOD RESEARCH 2017 (Pub Med.)**
10. Mohammad Reza Maracy, Shayan Mostafaei, **Mohsen Moghoofei**, Marjan Mansourian. *Impact of HIV Risk Factors on Survival in Iranian HIV-infected Patients: A Bayesian Approach to Retrospective Cohort*. **HIV and AIDS Review 2017 (PubMed).**

2016

1. Mahdi Karimi, Hamed Mirshekari, Seyed Masoud Moosavi Basri, Sajad Bahrami, **Mohsen Moghoofei**, Michael R. Hamblin. *Bacteriophages and phage-inspired nanocarriers for targeted delivery of therapeutic cargos*. **Advanced Drug Delivery Reviews 2016 (IF; 17.2).**
2. Bahram Nasr Esfahani, Sharareh Moghim, Hajieh Ghasemian Safaei, **Mohsen Moghoofei**, Mansour Sedighi, and Shima Hadifar. *Phylogenetic Analysis of Prevalent Tuberculosis and Non-Tuberculosis Mycobacteria in Isfahan, Iran, Based on a 360 bp Sequence of the rpoB Gene*. **Jundishapur Journal of Microbiology 2016 (IF; 1.2).**

2015

- 1.** **Mohsen Moghoofei**, Hossein Fazeli, Farkhondeh Poursina, Bahram Nasr Esfahani, Sharareh Moghim, Hamid Vaez, Shima Hadifar, and Hajieh Ghasemian Safaei. *Morphological and Bactericidal Effects of Amikacin, Meropenem and Imipenem on Pseudomonas aeruginosa*. **Jundishapur Journal of Microbiology 2015 (IF;1.2)** (Corresponding Author).
- 2.** Mansour Sedighi, Hamid Vaez, **Mohsen Moghoofei**, Shima Hadifar, Golfam Oryan, Jamshid Faghri. *Molecular detection of metallo- β -lactamase gene blaVIM-1 in imipenem-resistant Pseudomonas aeruginosa strains isolated from hospitalized patients in the hospitals of Isfahan*. **Advanced Biomedical Research 2015 (PubMed).**
- 3.** Mansour Sedighi, **Mohsen Moghoofei**, Ebrahim Kouhsari, Abazar Pournajaf, Behzad Emadi, Masoud Tohidfar, Mehrdad Gholami. *In silico analysis and molecular modeling of RNA polymerase, sigma S (RpoS) protein in Pseudomonas aeruginosa PAO1*. **Reports of Biochemistry & Molecular Biology 2015 (PubMed).**

4. **Mohsen Moghoofei**, Hossein Fazeli, Shima Hadifar, Mansour Sedighi and Hajieh Ghasemian Safaei. *Identification and the pattern of antibiotic resistance of Pseudomonas aeruginosa in burn patients referring to EmamMousa Kazem hospital – Isfahan, Iran. International Journal of Comprehensive Leading Research In Science 2015 (MEDLINE).*
5. **Mohsen Moghoofei**, Hossein Fazeli, Farkhonde Poursina, Bahram Nasr-Esfahani, Sharareh Moghim, Hamid Vaez, Shima Hadifar, Mansour Sedighi, Hajei Ghasemian Safaei. *Effects of environmental conditions on the morphologic change of Pseudomonas aeruginosa and its association with antibiotic resistance in burn patients. Biological Journal of Microorganism 2015 (ISC).*
6. Mansour Sedighi, Hajei Ghasemian Safaie, Hamid Vaez, **Mohsen Moghoofei**, Shima Hadifar, Golfam Oryan, Jamshid Faghri. *Detection of blaSPM-1 metallo- β -lactamase gene in Imipenem-resistant Pseudomonas aeruginosa strains isolated from hospitalized patients in Isfahan hospitals. Biological Journal of Microorganism 2015 (ISC).*

2014

1. Hamid Vaez, Jamshid Faghri, Bahram Nasr Isfahani, Sharareh Moghim, Sima Yadegari, Hossein Fazeli, **Mohsen Moghofei**, Hajieh Ghasemian Safaei. *Efflux pump regulatory genes mutations in multidrug resistance Pseudomonas aeruginosa isolated from wound infections in Isfahan hospitals. Advanced Biomedical Research 2014 (PubMed).*
2. Shima Hadifar, Sharareh Moghim, Hajieh Gasemian-Safaei, Hosein Fazeli, Fariba Farid, **Mohsen Moghoofei**, Mansour Sedighi, Bahram Nasr-Esfahani. *Identification of Non-Tuberculosis Mycobacteria Isolates by Polymerase Chain Reaction–Restriction Enzyme Analysis of 360-bp Fragment of rpoB Gene. Journal of Isfahan Medical School 2014 (Scopus).*

Books

- Clinical Virology, Baresh Publication. 2017

Abstracts

1. 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.*
2. Molecular Epidemiology of Rotavirus Gastroenteritis Strains in Iranian Children during 2015–2016. *10th International Congress of Clinical Microbiology, Sanandaj, Iran. Oral Presentation.*
3. The identification and antimicrobial resistance of *Pseudomonas aeruginosa* in burn patients referring to EmamMousa Kazem Hospital- Isfahan. *7thInternational Congress of Clinical Microbiology, Shiraz, Iran. Poster*
4. 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 1stConference of Clinical Virology.Tehran, Iran. Poster*
5. Effects of environmental conditions on the induction of the *Pseudomonas aeruginosa* coccoid form. *2nd Iranian congress of Medical Bacteriology.Tehran, Iran. Poster*

Editorial Roles

-Reviewer: *Microbial Pathogenesis - Tumor Biology - Medical Journal of The Islamic Republic of Iran (MJIRI)*

-Editorial Board: *International Journal of Microbiology and Biotechnology*

Gene Submission

1- Vaez H, Faghri J, Yadegari S, Isfahani BN, Moghim S, Fazeli H, **Moghofeei M**, Safaei HG, *Pseudomonas aeruginosa* efflux pump regulatory protein (*nfxB*) gene, complete cds. **ACCESSION: 1) KF675781, 2) KF675779, 3) KF675782, 4) KF675784.**

2- Vaez H, Faghri J, Yadegari S, Isfahani BN, Moghim S, Fazeli H, **Moghofeei M**, Safaei HG, *Pseudomonas aeruginosa* efflux pump regulatory protein (*mexR*) gene, complete cds. **ACCESSION: 1) KF675786, 2) KF675787.**