

---

## Curriculum Vitae (CV)

---



---

### **Dr. Mohsen Mohammadi**

---

#### **1- Personal Information:**

**First name:** Mohsen

**Last name:** Mohammadi

**Work address:** Department of Pharmaceutical Biotechnology, Faculty of Pharmacy, Lorestan University of Medical Sciences, and Department of Medical Biotechnology, Faculty of Medicine, Lorestan University of Medical Sciences, Khorramabad, Iran.

**Tel:** work (+98 6633120239)

**E. mail:** [mohamadi419@yahoo.com](mailto:mohamadi419@yahoo.com),

Alternative E. mail: [mohamadi.m@lums.ac.ir](mailto:mohamadi.m@lums.ac.ir)

#### **2- Present position:**

*Assistant Professor in Pharmaceutical Biotechnology*

#### **3- Academic Positions Held:**

**2006-2010:** *Academic member of Dept. of microbiology: **Instructor***

**August 2015-continued:** *Academic member of Dept. of Pharmaceutical Biotechnology: **Assistant professor***

#### **4- Education and qualifications:**

**2010-2015:**

Received Ph.D in Pharmaceutical Biotechnology from Tehran University of Medical Sciences, Tehran, Iran, July 2015.

**2011-2015:**

Scholarship course.

**2004-2006:**

Received MSc. In Medical Microbiology from Razi Vaccine and Serum Research Institute Karaj, Iran, August 2006.

## **5- Accomplishments & Honours**

- 2004 Achieving, the third rank in M.Sc, entrance exam of Ministry of Health and Medical Education for Medical Microbiology and being accepted in Razi Vaccine and Serum Research Institute.
- 2006 Award and appreciation letter for being chosen as well-educated student, Razi Vaccine and Serum Research Institute.
- 2009 Award and appreciation letter for being chosen as prominent researcher of year in Lorestan University of Medical Sciences.
- 2010 Achieving the second mark in the 22<sup>th</sup> Ph.D. student entrance exam and being accepted in Tehran University of Medical Sciences.
- 2013 First mark, in the 7<sup>th</sup> national board exam for pharmaceutical biotechnologists, Tehran University of Medical Sciences.

## **6- Technical skills**

- Bacteriology and serology diagnostic tests
- MIC& MCB
- ELISA
- PCR technique
- Real time PCR
- Molecular cloning: including primer design, DNA and RNA extraction and purification, electrophoresis, restriction digestion, ligation, transformation (electroporation), protein isolation and purification, dialysis, protein assay etc.
- Genetic engendering
- DNA mutagenesis (Site directed mutagenesis, DNA shuffling)
- Cell culture
- MTT assay, TUNEL assay
- SDS-PAGE and Western blotting
- Chromatography techniques such as , affinity , thin-layer, gel filtration,

## **7- Field of Interests:**

- Recombinant protein
- Protein engineering
- Enzyme technology
- Probiotic and prebiotic
- Herbal medicine researches
- Biomarkers evaluation in cancer and autoimmunity
- Nanobiotechnology
- Application of biotechnologically important enzymes from bacterial and fungal resources.
- Production of pharmaceutical important proteins and enzymes.
- Production and biological evaluation of nanoparticles using biological methods.
- Anti-microbial and cytotoxic evaluation of natural compounds or synthetic chemicals.
- MicroRNA
- DNA vaccines
- Antimicrobial peptides; Antibacterial , Antifungal, Antiparasitic and Anticancer

### 8- Teaching experience:

- Teaching the following topics microbiology ( Bacteriology and Virology) course for medicine, laboratory sciences, nursing, midwifery, operating room, anesthesia, environmental health, occupational health, public health, nutrition, health information technology students in the Lorestan University of Medical Sciences, 2006-2010
- Teaching Molecular Biology and Genetic and Pharmaceutical Biotechnology, Biological Products, Animal Cell Culture, Genetic Engineering, Bioinformatics, Principles for the standardization of biological products, Environmental Biotechnology, Quality control and biosafety for students of Pharm. D and MSc. Courses in the Lorestan University of Medical Sciences, since 2015 till now.

### 9- Languages:

Persian: Native

English: Listener and Speaker (Intermediate), Reading and Writing (Fluent)

### 10-Publications:

- **Books:**

Essential of Clinical Protozoology (Teymourzadeh publisher)

Basic Principles of Medical Microbiology (Heidari publisher)

Basic Principles and application of electrophoresis in medical microbiology (Heidari publisher)

Basic Concepts in Molecular Biology (Under publication).

- **Abstracts and Congress Presentations:**

- 1- **Mohammadi M.** Hoseinzadegan H. Fallahi Sh. Birjandi M. Azadpoor M (2008) Study of HIV and HCV co-infection in patients referred to Shohadaye Ashayer Hospital of Khorramabad in 2007. The Second Iranian Congress of Clinical Microbiology, 7-9 October, 2008 Shiraz Iran.
- 2- Mirhoseini SH, **Mohammadi M.**, Birjandi M. Hoseinzadegan H. Kamareii B. Jafari A (2008) Detection of *Legionella pneumophilla* from water samples in Hospitals of Khorramabad (2008), The 3<sup>rd</sup> Iranian Congress of Clinical Microbiology 6-8 October, 2009 Shiraz Iran
- 3- Shikhian A. Ataherian S. Delfan M. **Mohammadi.M** (2009) Seroepidemiology of H.pylori infection and its associated risk factors in Khorramabad city in 2008. The 10<sup>th</sup> Iranian Congress of Microbiology 21-23 April, 2009 Ilam, Iran

## Curriculum Vitae Mohammadi M.

- 4- Hoseinzadegan H . **Mohammadi M**. Pahohi N. Ebrahimzade F (2009) Study of lytic phage and alkaline phosphatase on treatment of burn infections caused by *E.coli* in mouse. The 10<sup>rd</sup> Iranian Congress of Microbiology 21-23 April, 2009 Ilam, Iran
- 5- **Mohammadi M**. Talei Gh. Sheikhian A. Ebrahimzade F. Boroun H .Survey of both Hepatitis B Virus (HBsAg) and Hepatitis C Virus (HCV-Ab) coinfection among HIV positive patients. Iranian Congress of Virology and First International Congress of Vaccine (2009) 2-4 may, 2009, Razi Vaccine and Serum Research Institute Karaj, Iran.
- 6- **Mohammadi M**. Nazari A. Etemadi A. Khorshidi A (2015). Evaluation of antibacterial activity of ethanolic root extract of *Taraxacum Syriacum Boiss* against standard and isolated strains of *Pseudomonas aeruginosa* in vitro. The 9<sup>th</sup> international Congress of Clinical Microbiology, Shiraz, Iran
- 7- Mohammadi H. KhosroKhavar R .Addib N. **Mohammadi M** (2015) Optimization of High-Performance Liquid Chromatographic (HPLC) Parameters for the Determination of Furosine in infant milk powder .The 13<sup>th</sup> Iranian International Congress of Toxicology 22-24<sup>th</sup> may , 2015 Urmia, Iran
- 8- In Silico prediction of putative antimicrobial targets in *Enterobacteriaceae* family: A homology based method. Morteza Hadizadeh , Seyyed Mohsen Sohrabi , Seyyedeh Nasim Tabatabaiepour , Seyyedeh Zahra Tabatabaiepour , Hossein Hosseini Nave , **Mohsen Mohammadi**. The 6<sup>th</sup> Conference on Bioinformatics, 13-15 Dec 2016, Institute of Biochemistry and Biophysics (IBB), University of Tehran, Tehran, Iran

## 11- Publications:

### a)- English publications:

- 1- Seroepidemiological Study of Toxoplasma gondii in Women Referred to Khorramabad Laboratory of Health Center for Medical Examination before Marriage, Lorestan Province, Iran, 2008 , Sh. Fallahi · E. Badparva · **M. Mohammadi**, F. Ebrahimzade, Y. Pournia · *Asian Journal of Biological Sciences*. 2009 ;(ISI).
- 2- Survey of both Hepatitis B Virus (HBsAg) and Hepatitis C Virus (HCV-Ab) coinfection among HIV positive patients , **M. Mohammadi** · Gh. Talei · A. Sheikhian · F. Ebrahimzade · Y. Pournia · E. Ghasemi · H. Boroun .*Virology Journal*. 2009; (ISI: IF 2.1).
- 3- Antimicrobial Resistance Patterns of E. coli Detected from Hospitalized Urine Culture Samples .**M. Mohammadi** ,E. Ghasemi, H.Mokhayeri ,Y. Pournia ,H. Boroun. *Asian Journal of Biological Sciences*.2010 ;( ISI).
- 4- Chemical composition and hepatoprotective activity of ethanolic root extract of *Taraxacum Syriacum Boiss* against acetaminophen intoxication in rats. Nazari A · Fanaei H · Dehpour AR · Hassanzadeh GR · Jafari M · Salehi M · **Mohammadi M** · *Bratislavske lekarske listy*. 2015 ;(ISI; IF 0.44).
- 5- Bacterial expression and characterization of an active recombinant lipase A from *Serratia marcescens* with truncated C-terminal region. **M. Mohammadi**, Z. Sepehrizadeh, A. Ebrahim-Habibi , AR Shahverdi, MA. Faramarzi, N. Setayesh. *Journal of Molecular Catalysis B Enzymatic*. 2015; (ISI: IF 2.13).
- 6- Genetic characterization of the *wboA* gene from the predominant biovars of *Brucella* isolates in Iran A. Etemady , **M.Mohammdi** , M. Esmaelizad, S. Alamian ,F Vahedi, Kh. Aghaeipour. et al *Electronic Physician*. 2015; (PubMed).

## ***Curriculum Vitae Mohammadi M.***

- 7- Visual Detection of Enterohemorrhagic Escherichia coli O157:H7 Using Loop-Mediated Isothermal Amplification. AH Reza Ranjbar, Maryam Erfanmanesh, Davoud Afshar, **M.Mohammadi**, *Electronic Physician* .2016;(PubMed).
- 8- Signaling pathways of melatonin in prevention of liver disorders via suppressing of oxidative stress in cellular level. **M.Mohammadi**, MJ Rezaie, A Rostamzadeh, A Allahveisi, *Biomedical and Pharmacology Journal* .2016;(Scopus).
- 9- Noninvasive molecular imaging of apoptosis in central nervous system by magnetic resonance imaging: Emerging to clinical practice A. Taheri, D. Fatehi, **M.Mohammadi**, A.Rostamzadeh, *International Journal of Tropical Medicine*; 2016.
- 10- Rapid Molecular Approach for Simultaneous Detection of Salmonella spp., Shigella spp., and Vibrio cholera. R Ranjbar, A Naghoni, D Afshar, F Nikkhahi, **M.Mohammadi**. *Osong public health and research perspectives*. 2016(PubMed).
- 11- Clinical and Pharmacological Applications of Silymarin Components at Cellular and Molecular Level: A Review. H.Masoumi , M.Anjamshoa , **M.Mohammadi** , A.Rostamzadeh . *Research Journal of Medical Sciences* 2016. (Scopus)
- 12- Evaluation of mouse embryos produced in vitro after electromagnetic waves exposure; Morphometric study. A.Rostamzadeh, **M.Mohammadi**, R. Ahmadi, A.Nazari, O. Ghaderi. *Electronic Physician*. 2016 (PubMed)..
- 13- Enhancing activity and thermostability of lipase A from *Serratiamarcescens* by site-directed mutagenesis. **M.Mohammadi**, Z.Sepehrizadeh, A.Ebrahim-Habibi, AR. Shahverdi , MA.Faramarzi , *Enzyme and Microbial Technology* .2016 (ISI : IF: 2.9).
- 14- Prevalence of qnr, intI, and intII genes in extended-spectrum beta-lactamase (ESBL)-producing *Escherichia coli* isolated from clinical samples in Iran. M Hadizadeh, A Norouzi, R Taghadosi, S Mohebi, **M.Mohammadi**. *Tropical Journal of Pharmaceutical Research* .2017; (ISI: IF: 0.5).
- 15- The effect of oxamflatin on the E-cadherin expression in gastric cancer cell line. E Faghihloo, Y Araei, **M.Mohammadi**, H Mirzaei, HR Mohammadi, T Mokhtari-Azad, *Cancer gene therapy* 2017; (ISI:3.6).
- 16- Mesenchymal stem cell: a new horizon in cancer gene therapy. **M.Mohammadi**, MR Jaafari, HR Mirzaei, H Mirzaei. *Cancer gene therapy* 2017; (ISI:3.6).
- 17- The effect of Melatonin on histological changes of ovary in induced polycystic ovary syndrome model in mice. M Ahmadi, A Rostamzadeh, F Fathi, **M.Mohammadi**, MJ Rezaie. *Middle East Fertility Society Journal* .2017; (ISI).
- 18- A Novel PCR Assay for Detecting *Brucella abortus* and *Brucella melitensis*. S Alamian, M Esmaelizad, T Zahraei, A Etemadi, **M.Mohammadi**, D Afshar. *Osong public health and research perspectives*. 2017; (PubMed)
- 19- Practical parasitology courses and infection with intestinal parasites in students. S Fallahi, A Rostami, **M.Mohammadi**, F Ebrahimzadeh, Y Pournia. *Journal of infection and public health* .2017; (ISI: IF: 1.3).
- 20- Role of Silymarin in Regeneration and Treatment of Skin Disorders; Progress in Signaling Pathways , **M.Mohammadi** , A. Rostamzadeh , A. Moayeri , A. Allahveisi , HR. Mohammadi , and MJ. Rezaie *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 2017; (Scopus).
- 21- Circulating microRNA: a new candidate for diagnostic biomarker in neuroblastoma. **M.Mohammadi**, M Goodarzi, MR Jaafari, HR Mirzaei, H Mirzaei. *Cancer gene therapy*. 2016; (ISI: IF: 3.6).
- 22- Glioblastoma: exosome and microRNA as novel diagnosis biomarkers .L Saadatpour, E Fadaee, S Fadaei, RN Mansour, **M.Mohammadi**, *Cancer gene therapy* . 2016; (ISI: IF:3,6).

## **Curriculum Vitae Mohammadi M.**

- 23- Biological effects of cell-phone radiofrequency wave's exposure on fertilization in mice; an in vivo and in vitro study. D Fatehi, M Anjomshoa, **M.Mohammadi**, M Seify, A Rostamzadeh. *Middle East Fertility Society Journal*. 2017; (ISI).
- 24- Circulating microRNAs as potential diagnostic biomarkers and therapeutic targets in gastric cancer: current status and future perspectives. H Mirzaei, S Khataminfar, S Mohammadparast, S Shahid Sales, M Maftouh, **M.Mohammadi**, Mignanoosh, et al. *Current medicinal chemistry*. 2017; (ISI: IF: 3.5)
- 25- Synergistic effect of Carum copticum and Mentha piperita essential oils with ciprofloxacin, vancomycin, and gentamicin on Gram-negative and Gram-positive bacteria. Gholam-Reza Talei, **M.Mohammadi**, M. Bahmani, M.Rafieian Kopaei. *International journal of pharmaceutical investigation*; 2017.
- 26- Genome-Wide Identification of Potential Drug Target in Enterobacteriaceae Family: A Homology-Based Method. M Hadizadeh, SN Tabatabaiepour, SZ Tabatabaiepour, H Hosseini Nave, **M. Mohammadi**, S.M Sohrabi. *Microbial Drug Resistance*. 2018; 24 (1), 8-17 (ISI: IF: 2.3).
- 27- Curcumin: A new candidate for melanoma therapy? H Mirzaei, G Naseri, R Rezaee, **M Mohammadi**, Z Banikazemi, International journal of cancer. 2017; (ISI: IF: 6.4).
- 28- Diet and cancer prevention: dietary compounds, dietary microRNAs and dietary exosomes Z Banikazemi, HA Haji, **M.Mohammadi**, G Taheripak, E Iranifar, et al *Journal of cellular biochemistry*. 2018 ;( ISI: IF: 3).
- 29- Radioprotective effects of Silymarin on the sperm parameters of NMRI mice irradiated with  $\gamma$ -rays. D Fatehi, **M Mohammadi**, B Shekarchi, A Shabani, M Seify, *Journal of Photochemistry and Photobiology B: Biology*. 2018 (ISI : IF: 3.2).
- 30- MicroRNA: A novel target of curcumin in cancer therapy H Mirzaei, A Masoudifar, A Sahebkar, N Zare, JS Nahand, B Rashidi, **M.Mohammadi**, *Journal of cellular physiology*. 2018 (ISI: IF: 4).
- 31- Circulating microRNAs in hepatocellular carcinoma: potential diagnostic and prognostic biomarkers. HR. Mirzaei, A Sahebkar, **M Mohammadi**, R Yari, H Salehi, *Current pharmaceutical design*. 2017 (ISI: IF: 3).
- 32- A Review on role of medicinal plants in polycystic ovarian syndrome: pathophysiology, neuroendocrine signaling, therapeutic status and future prospects. Z Abasian, A Rostamzadeh, M Hosseini, **M.Mohammadi**, MR Kopaei. *Middle East Fertility Society Journal*. 2018 (ISI).
- 33- The expression of Bax protein in the early stages of spinal cord injury in the sperm cells in seminiferous tubules of rats. Ayoob Rostamzadeh, Tayyeb Ghadimi, Azra Allahveisi, **M.Mohammadi**, S. Rezaei, M J.Rezaie. *Polish Annals of Medicine* 2018 (Pub Med).
- 34- Human embryonic stem cell-conditioned medium induces cell cycle arrest in HL60 cells by unknown soluble factor(s) in vitro. F.Adeli, A.Alikarami, Sh.Fakhari, SH.Anjamrooz, A.Jalili, A.Rostamzadeh, **M.Mohammadi**, D.Roshani and MJ.Rezaie. *Polish Annals of Medicine*. 2018 (Pub Med).
- 35- Protective role of *Urtica dioica* against radiofrequency waves -induced changes on in vitro fertilization and embryo development in mice. A.Moayeri, A.Rostamzadeh, **M Mohammadi**, M Rahimi-Madiseh, M Seify, D Fatehi *Journal "Medical Science*. 2018 (ISI).
- 36- A Systematic in-silico Analysis of the family *Legionellaceae* for Identification of Novel Drug Target Candidates. SM.Sohrabi, M.Hadizadeh, **M.Mohammadi**, SN.Tabatabaiepour, S Z. Tabatabaiepour, H. Hosseini-Nave. *Microbial Drug Resistance*. 2019 ;(ISI: IF: 2.3).
- 37- Evaluation of polymorphisms in the FTO rs9939609 and MC4R rs17782313 as prognostic biomarkers of obesity: a population based cross-sectional study. M Mozafarizadeh, **M Mohammadi**, S Sadeghi, M Hadizadeh, T Talebzade, M Houshmand *Oman Medical Journal*. 2019 ;( Pub Med).

## **Curriculum Vitae Mohammadi M.**

38- Effect of Thalidomide on COX<sub>2</sub> Expression in Bleomycin-Induced Pulmonary Fibrosis in Mice. Gh Keshavarz , A Rostamzadeh , **M Mohammadi** ,T Ghadimi , MJ Rezaie. (Submitted).

### **b)-Farsi publications:**

39- Detection of anti-dsDNA by IgG ELISA test using two different sources of antigens: calf thymus versus *E. coli*. **M.Mohammadi**, A Mirjalili, H Gh, F Sh, A Sarafnejad, A Eatemadi, *Tehran University of Medical Sciences Publisher*. 2009 (Scopus).

40- Study of lytic phage and alkaline phosphatase on treatment of burn infections caused by *Escherichia coli* in Mouse. H Hosain Zadegan, **M.Mohammadi**, N Pajohy, F Ebrahim Zade. *Iranian Journal of Medical Microbiology Publisher*;2009

41- Comparison of the Prevalence of Intestinal Parasites in HIV-Positive and AIDS Patients in Khorramabad City in 2006-2007. SH Falahi, E Badparva, H Nahrvanian, **M.Mohammadi**, F Ebrahimzadeh. *Journal of Kerman University of Medical Sciences*; 2009.

42- Study of HIV and HCV co-infection in patients referred to Shohadaye Ashayer Hospital of Khorramabad in 2007. **Mohammadi .M.** Hoseinzadegan H. Fallahi Sh. Birjandi M. Azadpoor M. *Journal of Yafteh Lorestan University of Medical Sciences*; 2007.

43- Detection of *Legionella pneumophilla* from water samples in Hospitals of Khorramabad 2008, Mirhoseini SH, **Mohammadi. M.** Birjandi M. Hoseinzadegan H , Jafari A. Kamareii B. *Journal of Yafteh Lorestan University of Medical Sciences*; 2008.

44- Identification, cloning and evaluation of some antimicrobial peptide defensin from *Avena sativa*. S Emamifar, Sh Abolmaali ,**M.Mohammadi** ,SM Sohrabi .*Modern Genetic Journal*; 2019.