



Kurdistan University of Medical Sciences  
Faculty of Health  
Department of Environmental Health Engineering

### Personal Information

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### Scientific References

Scopus h. Index: 6 (<https://www.scopus.com/authid/detail.uri?authorId=57200559693>)

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Google Scholar H-Index: 6 (<https://scholar.google.com/citations?user=f-6MfKkAAAAJ&hl=en>)

Researchgate: [https://www.researchgate.net/profile/Ebrahim\\_Mohammadi](https://www.researchgate.net/profile/Ebrahim_Mohammadi)

Publons: <https://publons.com/author/1324561/ebrahim-mohammadi#profile>

### Educational Qualification

**Doctor of Philosophy (PhD) 2007-2013;** Toxicology, School of Pharmacy, Shahid Beheshti University of Medical Sciences (SBUMS), Tehran, Iran.

**PhD Thesis Title:** “Study of the Effect of Cigarette Smoke Condensate and Bee Venom on Sirtuin Deacetylase Expression in the Presence of IL-1 $\beta$  in Human Synovial Fibroblast Line”.

**Sabbatical** at the Department of Experimental Immunology and Rheumatology, Academic Medical Center, The University of Amsterdam, Amsterdam, the Netherlands.

**Master of Science (MSc) 2003-2007;** Toxicology, School of Pharmacy, Ahwaz University of Medical Sciences (AJUMS), Ahwaz, Iran.

**MSc Thesis Title:** “Investigation of p53 Gene Mutation in Samples of Patients with Hepatocellular Carcinoma”.

**Bachelors of Science (BSc) 1999-2003;** Cellular & Molecular Biology, Department of Biology, Faculty of Science, University of Tehran, Tehran, Iran.

### Workshops Attended

1. **“Workshop of Pharmaceutical Informatics”.** At Pharmaceutical Sciences Research Center (PSRC), Tehran, Iran, 12-13 January 2008.
2. **“3<sup>rd</sup> International Symposium on Molecular Technology Manipulation of Cell Pathways in Drug Development”.** At the 1<sup>th</sup> Iranian Congress of Apoptosis, Tehran, Iran, 5-7 May 2009.

### Workshops Conducted

1. **“Workshop of Cell Culture”.** The 9<sup>th</sup> Iranian Pharmaceutical Sciences Congress, Zanjan, Iran, August 2010.
2. **“Workshop of Molecular Detection of Mycoplasma in Cell Culture by PCR”.** At Pharmaceutical Sciences Research Center (PSRC), Tehran, Iran, 25-27 December 2010.
3. **“Laboratory Methods on Drug of Abuse Detection in Clinical Samples”.** Kurdistan University of Medical Sciences, Sanandaj, Iran. February 2014.
4. **“Laboratory Methods on Drug of Abuse Detection in Clinical Samples”.** Kurdistan University of Medical Sciences, Sanandaj, Iran. February 2014.

### Published Papers

1. Borhan Moradveisi, Samar Muwakkat, Fatemeh Zamani, Ebrahim Ghaderi, **Ebrahim Mohammadi\***, Nathalie K. Zgheib\*. [ITPA, TPMT, and NUDT15 Genetic Polymorphisms Predict 6-Mercaptopurine Toxicity in Middle Eastern Children with Acute Lymphoblastic Leukemia.](#) *Frontiers in Pharmacology*. 2019 Aug. doi: 10.3389/fphar.2019.00916. ISI, Q1 (IF = 3.84).
2. Rashidipour M, Maleki A, Kordi S, Birjandi M, Pajouhi N, **Mohammadi E**, Heydari R, Rezaee R, Rasouljan B, Davari B. [Pectin/Chitosan/Tripolyphosphate Nanoparticles: Efficient Carriers for Reducing Soil Sorption, Cytotoxicity, and Mutagenicity of Paraquat and Enhancing Its Herbicide Activity.](#) *J Agric Food Chem*. 2019 May 22;67(20):5736-5745. doi: 10.1021/acs.jafc.9b01106. ISI, Q1 (IF = 3.41).
3. Assadollahi V, **Mohammadi E**, Fathi F, Hassanzadeh K, Erfan MBK, Soleimani F, Banafshi O, Yosefi F, Allahvaisi O. [Effects of cigarette smoke condensate on proliferation and pluripotency gene expression in mouse embryonic stem cells.](#) *J Cell Biochem*. 2019. 120(3) 4071-4080. doi: 10.1002/jcb.27692. ISI, Q2 (IF = 2.95).
4. Rashidipour M, Heydari R, Maleki A, **Mohammadi E**, Davari B. [Salt-assisted liquid-liquid extraction coupled with reversed-phase dispersive liquid-liquid microextraction for sensitive HPLC determination of paraquat in environmental and food samples.](#) *J Food Meas Charact*. 2019;13;269-276. 10.1007/s11694-018-9941-y. ISI, Q2 (IF = 1.18).
5. Tirandaz H, Ebrahim-Habibi MB, Moradveisi B, Raofi S, Salehi-Najafabadi A, **Mohammadi E\***. [Microbiota potential for the treatment of sexual dysfunction.](#) *Med Hypotheses*. 2018 Jun;115:46-49. ISI, Q1 (IF = 1.12).
6. Mohammadi Sarable S, Ahmadi Hedayati M, **Mohammadi E**, Sheikhesmaeili F, Nikkhou B. [Sirt1 Gene Expression and Gastric Epithelial Cells Tumor Stage in Patients with Helicobacter pylori Infection.](#) *Asian Pac J Cancer Prev*. 2018 Apr 25;19(4):913-916. ISI, Q2 (IF = 2.5).
7. Zandi S, Hedayati MA, **Mohammadi E**, Sheikhesmaeili F. [Helicobacter pylori infection increases sirt2 gene expression in gastric epithelial cells of gastritis patients.](#) *Microb Pathog*. 2018 Mar;116:120-123. ISI, Q2 (IF = 2.33).
8. Abedi KA, Ghorbani-Shahna F, Bahrami A, Ebrahimi H, Maleki A, Madjidi F, Musavi S, **Mohammadi E**, Giasi O. [Effect of TiO<sub>2</sub>/GAC and water vapor on chloroform decomposition in a hybrid plasma-catalytic system.](#) *Environ Technol*. 2018 Aug;39(16):2041-2050. ISI, Q2 (IF = 1.66).
9. Mohammadi M, Maleki A, Zandi S, **Mohammadi E**, Ghahramani E. Synthesis and structural properties of Mn-doped ZnO/Graphene nanocomposite. *J Environment Water Engineering*. 2018; 6: 246-252. (Persian).
10. Kohzadi S, Sheikhesmaili F, Rahehagh R, Parhizkar B, Ghaderi E, Loqmani H, Shahmoradi B, **Mohammadi E**, Maleki A. [Evaluation of trace element concentration in cancerous and non-cancerous tissues of human stomach.](#) *Chemosphere*. 2017 Oct;184:747-752. ISI, Q1 (IF = 4.43).
11. Karimi H, Mahdavi P, Fakhari S, Faryabi MR, Esmaeili P, Banafshi O, **Mohammadi E**, Fathi F, Mokarizadeh A. [Altered helper T cell-mediated immune responses in male](#)

- mice conceived through in vitro fertilization. *Reprod Toxicol.* 2017 Apr;69:196-203. ISI, Q2 (IF = 2.58).
12. Mansouri B, Maleki A, Johari SA, Shahmoradi B, **Mohammadi E**, Davari B. Histopathological effects of copper oxide nanoparticles on the gill and intestine of common carp (*Cyprinus carpio*) in the presence of titanium dioxide nanoparticles. *Chemistry and Ecology.* 2017; 33(4): 295-308. ISI, Q2 (IF = 1.09).
  13. Mansouri B, Maleki A, Johari SA, Shahmoradi B, **Mohammadi E**, Shahsavari S, Davari B. Copper Bioaccumulation and Depuration in Common Carp (*Cyprinus carpio*) Following Co-exposure to TiO<sub>2</sub> and CuO Nanoparticles. *Arch Environ Contam Toxicol.* 2016 Nov;71(4):541-552. ISI, Q2 (IF = 2.42).
  14. Mansouri B, Maleki A, Davari B, Johari SA, Shahmoradi B, **Mohammadi E**, Shahsavari S. Histopathological effects following short-term coexposure of *Cyprinus carpio* to nanoparticles of TiO<sub>2</sub> and CuO. *Environ Monit Assess.* 2016 Oct;188(10):575. ISI, Q1 (IF = 1.8).
  15. Mansouri B, Maleki A, Davari B, Johari SA, Shahmoradi B, **Mohammadi E**. Effect of subchronic exposure of CuO NPs in presence of TiO<sub>2</sub> NPs on fish model. *J Mazandaran Univ Med Sci* 2016; 26(142): 127-138 (Persian). Scopus, Q2 (IF = 0.45).
  16. Husseini M, Maleki J, Mohammadi E. A Review on Melamine Toxicity in Food Products and its Health Aspects. *J Environment Water Engineering.* 2016; 1(1): 18-34. (Persian).
  17. Mokarizadeh A, Samani A, Soraya H, Hassanzadeh K, Faryabi M, **Mohammadi E**, Abdi M. Transdermal delivery of bovine milk vesicles in patients with multiple sclerosis: A novel strategy to induce MOG-specific tolerance. *Med Hypotheses.* 2015; Aug;85(2):141-4. ISI, Q1 (IF = 1.12).
  18. **Mohammadi E**, Shirazi FH, Nikbin B, Vatanpour H. Immunomodulatory Effects of Bee Venom in Human Synovial Fibroblast Cell Line. *Iranian J Pharm Res.* 2015; 14(1):313-20. ISI, Q2 (IF = 1.37).
  19. Shokrzadeh M, Shaki F, **Mohammadi E**, Rezagholizadeh N, Ebrahimi F. Edaravone decreases paraquat toxicity in A549 cells and lung isolated mitochondria. *Iranian J Pharm Res.* 2014; 13(2): 675-81. ISI, Q2 (IF = 1.37).
  20. Shokrzadeh M, Alidous F, Nourian Y, Vaezi N, **Mohammadi E**, Shaki F. Protective Effects of Resveratrol against Paraquat-Induced Mitochondrial Dysfunction in Brain and Lung Isolated Mitochondria. *J Mazandaran Univ Med Sci.* 2014; 24(114): 93-101 (Persian). Scopus, Q2 (IF = 0.45).
  21. Shokrzadeh M, Shaki F, **Mohammadi E**, Rezagholizadeh N, Ebrahimi F. Edaravone decreases Paraquat toxicity in A549 cells and lung isolated mitochondria. *Iranian J of Pharm Res.* 2014; 13(2): 675-81. ISI, Q2 (IF = 1.37).
  22. Tirandaz H, **Mohammadi E\***. Efficient tumor targeting by anaerobic butyrate-producing bacteria. *Med Hypotheses.* 2013; 80: 675-678. ISI, Q1 (IF = 1.12).
  23. Mostafazadeh B, Kiani A, **Mohammadi E**, Shaki F, Shirazi FH. Mercury exposure of gold mining workers in the northwest of Iran. *Pak J Pharm Sci.* 2013; 26(6): 1267-1270. ISI, Q3 (IF = 0.8).

24. Galehdari H, **Mohammadi E\***, Andashti B, Naderi A, Molavi MA. [Perforin Gene Analysis in an Iranian Family with Familial Hemophagocytic Lymphohistiocytosis](#). *Iranian J Immunol*. 2007; 4; 122-126. ISI, Q4 (IF = 0.8).
25. Kalantari H., Panahi M., Izadinajafabadi A., **Mohammadi E**. [Genotoxicity Determinations of coriander drop and extract of \*Coriander sativum\* in cultured fibroblast of rat embryo by comet assay](#). *Saudi Pharm J*. 2008; 16; 85–88. ISI, Q1 (IF = 3.1).

### Editorial Team

Editorial Team, Journal of Advances in Environmental Health Research

Editorial Team, Journal of Environment and Water Engineering

### Lectures at Seminars

1. **Mohammadi E**, Angiolilli C, Kabala P, Tak PP, Baeten D, Hussein Shirazi F, Reedquist K. Sirtuin Deacetylase 2 Inhibition Suppresses Inflammatory Activation of Rheumatoid Arthritis Fibroblast-Like Synoviocytes and IFN- $\gamma$ -Differentiated Macrophages. *EULAR Congress, 2014, Paris, France*.
2. **Mohammadi E**, Vatanpour H, Nikbin B, Shirazi FH. "Alteration of Pro-inflammatory Cytokines Expression by Cigarette Smoke Condensate in Fibroblast-like Synoviocytes". *The 11th Iranian Congress of Toxicology, 13-15 September 2011, Mashhad, Iran*.

### Posters at Seminars

1. **Mohammadi E**, Shirazi FH, Nikbin B, Vatanpour H. Reduction of Cigarette Smoke-induced Inflammatory Response by Bee Venom in Human Synovial Fibroblasts. *12<sup>th</sup> International Congress of the Toxicology & Iranian Congress of Poisonings, 8 -11 May 2013, Sari, Iran*.
2. Shaki F, Rezagholizadeh N, Shokrzadeh M, Mohammadi E, Ebrahimi F. "Edaravone prevents Paraquat induced mitochondrial toxicity". *12<sup>th</sup> International Congress of the Toxicology & Iranian Congress of Poisonings, 8 -11 May 2013, Sari, Iran*.
3. Shaki F, Alidosti F, Shokrzadeh M, Mohammadi E. "Protection Effect of Resveratrol against Paraquat-Induced Oxidative Damage in Isolated Brain Mitochondria, a New Therapeutic Agent in Parkinson Disease". *12<sup>th</sup> International Congress of the Toxicology & Iranian Congress of Poisonings, 8 -11 May 2013, Sari, Iran*.
4. Shaki F, Ebrahimi F, Shokrzadeh M, Mohammadi E, Rezagholizadeh N. "Edaravone attenuate Paraquat induced-oxidative stress and cytotoxicity". *12<sup>th</sup> International Congress of the Toxicology & Iranian Congress of Poisonings, 8 -11 May 2013, Sari, Iran*.

5. **Mohammadi E**, Shirazi FH, Nikbin B, Vatanpour H.” Alteration of inflammatory markers by bee venom in human synovial fibroblastes”. **Research in Pharmaceutical Sciences**, 2012;7(5).

6. **Mohammadi E**, Soheili F, Galehdari H, Kalantari H, Andashti B. “The suitability of DNA extraction from archival formalin-fixed, paraffin-embedded tissue sections for retrospective genetic toxicology studies”. Published in **the 9<sup>th</sup> Iranian Congress of Toxicology, 15-17 May 2007**.

7. **Mohammadi E**, Kalantari H, Galehdari H, Soheili F, Andashti B, Masjedizadeh R. “246<sup>ser</sup> p53 mutation in archival samples of Patients with hepatocellular carcinoma from Iran”. Published in **the 19<sup>th</sup> Asian Pacific Cancer Conference, 15-17 November 2007**.

### Teaching experience

**Environmental Toxicology** (B.E. in Environmental Health Engineering)

**Environmental Toxicology** (M.Sc. in Environmental Health Engineering)

**Environmental Toxicology** (Ph.D. in Environmental Health Engineering)

**Toxins and Chemical Safety** (B.E. in Environmental Health Engineering)

**Genetics and Environmental Biotechnology** (Ph.D. in Environmental Health Engineering)

**Occupational Toxicology** (B.E. in Occupational Health Engineering)

**Project Management** (B.E. in Occupational Health Engineering)

**Toxicology** (B.Sc. in Laboratory Sciences)

**Toxicology Lab.** (B.Sc. in Laboratory Sciences)

**Pharmacology and Basic Pharmacology** (B.Sc. in Laboratory Sciences, Emergency Medicine, Anesthesiology, etc)

### SKILLS

Cell Culture, Cytotoxicity Assays, Macrophage Polarization, Animal Handling, ....

PCR and quantitative Real-Time PCR, Gel Electrophoresis, ....

Western Blotting, ELISA, Immunohistochemistry, ....

Gene knock-down assay, ....

Graphpad Prism and SPSS statistical Software,

Word, Excel, PowerPoint.