

## *Curriculum Vitae*

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### **PERSONAL INFORMATION**

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Date of birth, Marital statuses, ...

- **Birth Date:** 21 July 1990
- **Marital status:** Married

### **EDUCATION**

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Most recent

Date, Degree/Course, Department/University, Dissertation title

2014-2019                      Ph.D., Mashhad university of medical science, Mashhad, Iran  
**Thesis Title:** Polycyclic aromatic hydrocarbons in infant formulae, follow-on formulae, and baby foods in Iran: An assessment of risk

2012-2014                      MS, Mashhad university of medical science, Mashhad, Iran  
**Thesis Title:** Protective effect of thymoquinone on D-galactose-induced aging in mice

2008-2012                      Bachelor's degree, Guilan university

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### **RESEARCH EXPERIENCE**

Date, Title, University/organization, Description

- Determination of drugs in biological matrices
- Determination of chemical compounds in food samples
- Investigating anti-aging effect of natural compounds

### **TEACHING EXPERIENCE**

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Dates, Title, University/organization, Course/s taught, description of duties

- Clinical toxicology' Instructor at Isfahan University of Medical Sciences
- Gas chromatography mass spectrometry (GC-MS): principle, instrument and analysis

- High performance liquid chromatography (HPLC): basis and analysis

## PUBLICATIONS

Bibliographic format

### Books

- ۱- آیوکارتنونیدهای زعفران از بیوسنتز تا فارماکولوژی، انتشارات دانشگاه تربت حیدریه، شابک: ۹۷۶-۶۰۰-۵۳۳۵-۱۰-۸
- ۲- آزمایشگاه تحقیقات زیست-پزشکی (آشنایی با مقدمات علمی و روش های سلولی، مولکولی و آنالیز دستگاهی) شابک: ۹۷۸-۶۰۰-۱۸۴-۳۰۷-۵
- ۳- سم شناسی مواد غذایی، انتشارات مرکز تحقیقات حلال ، شابک: 6229752727

### Journal Papers

1. Bostan HB, Mehri S, Hosseinzadeh H. Toxicology effects of saffron and its constituents: a review. Iranian journal of basic medical sciences. 2017;20(2):110.
2. Bostan HB, Rezaee R, Valokala MG, Tsarouhas K, Golokhvast K, Tsatsakis AM, Karimi G. Cardiotoxicity of nano-particles. Life Sciences. 2016;165:91-9.
3. Danesh NM, Bostan HB, Abnous K, Ramezani M, Youssefi K, Taghdisi SM, Karimi G. Ultrasensitive detection of aflatoxin B1 and its major metabolite aflatoxin M1 using aptasensors: A review. TrAC Trends in Analytical Chemistry. 2018;99:117-28.
4. Bostan HB, Danesh NM, Karimi G, Ramezani M, Shaegh SAM, Youssefi K, et al. Ultrasensitive detection of ochratoxin A using aptasensors. Biosensors and Bioelectronics. 2017;98:168-79.
5. Bostan HB, Taghdisi SM, Bowen JL, Demertzis N, Rezaee R, Panahi Y, et al. Determination of microcystin-LR, employing aptasensors. Biosensors and bioelectronics. 2018;119:110-8.
6. Mohammadi E, Mehri S, Bostan HB, Hosseinzadeh H. Protective effect of crocin against d-galactose-induced aging in mice. Avicenna journal of phytomedicine. 2018;8(1):14.
7. Rajabnejad S-H, Badibostan H, Verdian A, Karimi GR, Fooladi E, Feizy J. Aptasensors as promising new tools in bisphenol A detection-An invisible pollution in food and environment. Microchemical Journal. 2020;155:104722.
8. Badibostan H, Feizy J, Daraei B, Shoeibi S, Rajabnejad SH, Asili J, et al. Polycyclic aromatic hydrocarbons in infant formulae, follow-on formulae, and baby foods in Iran: An assessment of risk. Food and chemical toxicology. 2019;131:110640.
9. Taghizadeh SF, Rezaee R, Badiebostan H, Giesy JP, Karimi G. Occurrence of mycotoxins in rice consumed by Iranians: a probabilistic assessment of risk to health. Food Additives & Contaminants: Part A. 2020;37(2):342-54.
10. Riahi-Zanjani B, Balali-Mood M, Mohammadi E, Badie-Bostan H, Memar B, Karimi G. Safranal as a safe compound to mice immune system. Avicenna journal of phytomedicine. 2015;5(5):441.
11. Taghizadeh SF, Badibostan H, Hayes AW, Giesy JP, Karimi G. Residues levels of pesticides in walnuts of Iran and associated health risks. Human and Ecological Risk Assessment: An International Journal. 2021;27(1):191-204.
12. Taghizadeh SF, Rezaee R, Badibostan H, Karimi G. Aflatoxin B1 in walnuts: a probabilistic cancer risk assessment for Iranians. Toxicological & Environmental Chemistry. 2020;102(9):506-19.

13. Taghizadeh SF, Rezaee R, Badibostan H, Karimi G. Probabilistic carcinogenic and non-carcinogenic risk assessment of heavy metal ingestion through consumption of different walnut cultivars: An Iranian study. *Environmental Monitoring and Assessment*. 2020;192:1-15.
14. Taghizadeh SF, Rezaee R, Mehmandoust M, Badibostan H, Karimi G. Assessment of in vitro bioactivities of Pis v 1 (2S albumin) and Pis v 2.0101 (11S globulin) proteins derived from pistachio (*Pistacia vera* L.). *Journal of Food Measurement and Characterization*. 2020;14:1054-63.
15. Riahi-Zanjani B, Heidarzadegan M, Badibostan H, Karimi G. Determination of 17 $\beta$ -estradiol in commercial pasteurized and sterilized milk samples in Mashhad, Iran. *Journal of food science and technology*. 2019;56:4795-8.
16. Karimi G, Balali-Mood M, Alamdaran S-A, Badie-Bostan H, Mohammadi E, Ghorani-Azam A, et al. Increase in the Th1-cell-based immune response in healthy workers exposed to low-dose radiation-immune system status of radiology staff. *Journal of Pharmacopuncture*. 2017;20(2):107.
17. Iranshahy M, Etemad L, Shakeri A, Badibostan H, Karimi G. Protective activity of melatonin against mycotoxins-induced toxicity: A review. *Toxicological & Environmental Chemistry*. 2019;101(9-10):435-50.
18. Badibostan H, Eizadi-Mood N, Hayes AW, Karimi G. Protective effects of natural compounds against paraquat-induced pulmonary toxicity: the role of the Nrf2/ARE signaling pathway. *International Journal of Environmental Health Research*. 2024;34(1):611-24.
19. Badibostan H, Mehri S, Mohammadi E, Hosseinzadeh H. Protective effect of thymoquinone on D-galactose-induced aging in mice. *Jundishapur Journal of Natural Pharmaceutical Products*. 2019;14(1).
20. Shirani K, Bostan HB, Baroti A, Hassanzadeh M, Khashyarmanesh Z, Haghghi HM, Karimi G. Ethanol and methanol concentration in commonly used brands of Ma-al-shaeer in Iran: Estimation of dietary intakes and risk assessment. *Journal of pharmacopuncture*. 2018;21(3):168.
21. Kashi ME, Ghanbari M, Badibostan H, Seidel V, Hosseini SH, Asili J, et al. Antimicrobial and cytotoxic naphthoquinones from microbial origin: An updated review. *Mini Reviews in Medicinal Chemistry*. 2023.
22. Ajzashokouhi A, Bostan H, Jomezadeh V, Hayes A, Karimi G. A review on the cardioprotective mechanisms of metformin against doxorubicin. *Human & Experimental Toxicology*. 2020;39(3):237-48.

## **PRESENTATIONS AND POSTER SESSIONS**

### Bibliographic format

- Protective effects of natural compounds against paraquat-induced pulmonary toxicity: the role of the Nrf2/ARE signaling pathway, international congress of laboratory and and clinic held on 5-9 Feb. 2022
- Investigation of heat effecton production polycyclic aromatic hydrocarbons during the production of infant, international congress of laboratory and and clinic held on 5-9 Feb. 2022
- Protective effect of thymoquinone on D-galactose-induced aging in mice, international congress of toxicology, 12-14 May, 2015 Urmia, Iran
- Clinical aspect of mass spectrometry in Neonatal metabolic disorders mashhad, Iran

## **PATENTS**

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Date, Item, number

## **RESEARCH INTERESTS**

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Research area

- Bioanalysis
- chromatography

## **TEACHING INTERESTS**

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Class title or subject

- Clinical toxicology, the importance of laboratory tests in clinical toxicology
- Gas chromatography mass spectrometry (GC-MS)