

# Paria Sharafi-Badr

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## Contact Information

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extention: 109

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## Academic Rank Group

Associate Professor  
Biotechnology and Pharmacognosy

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## EDUCATION

### Year

### Pharm.D in Pharmacy

2008 - 2014

Shiraz University of Medical Sciences

### Ph.D. in Pharmacognosy (Natural Products)

2014 - 2020

Tehran University of Medical Science

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## SKILLS

### SOFTWARE SKILLS

- Mimics
  - Respiratory Tract Analysis
  - Blood Tissue Analysis
- SPSS
- Reference Manager & Endnote
- GraphPad Prism
- Origin
- MestReNova
- Acquaintance With Chemdraw
- Acquaintance With Amber

### LANGUAGE SKILLS

- Persian Native
- English Full professional proficiency, TOLIMO Score: 5/6
- Arabic Advanced in Reading, Writing, Listening

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## PRESENTATIONS

### Journal Articles

- Mehrabadi Z., Ahmadi S., Gutierrez A., Karimi M., Hayati P., Sharafi Badr P., Morphologically Controlled Eco-friendly Synthesis of a Novel 2D Hg(II) Metal-Organic Coordination Polymer: Biological Activities and DFT Analysis. Journal of Molecular Structure.
- Sharafi Badr P., Adhami HR., Can Marine Products Improve Alzheimer's Disease: a review. Journal of Sciences.
- Sharafi Badr P., Adhami HR., Karobi S., Ghahremani MH., Monsef Esfahani HR., In-vitro Cytotoxic Screening of Different Parts from *Ornithogalum bungei* on Selected Cancer Cells. Iranian journal of medical sciences.
- Tahmasebi E., Monsef Esfahani HR., Sadati N., Sharifzadeh M., Sharafi-Badr P., Anticonvulsant effects of *Paeonia daurica* subsp. *wittmanniana* root extracts in pentylenetetrazole-induced seizure models in mice. Neurologia Journal.
- Hosseinpouri A., Ehsandoost E., Obeidi N., Sharafi-Badr P., Mohammadi M., Chemical characterization,

antioxidant, cholinesterase inhibitory and cytotoxic properties of Fucoïdan extracted from Persian Gulf Sargassum Angostifolium. Acta Oceanologica Sinica.

- Mehrabadi Z., Ahmadi S., Gutierrz A., Karimi M., Hayati P., Sharafi Badr P. Metal organic coordination polymer; Hirshfeld surface analysis; 1,4- Phenylenedipropionic acid; Antibacterial; Silver; Molecular docking studies. Solid State Chemistry.
- Hamidreza Monsef-Esfahani., Sahand Jamshidi., Paria Sharafi-Badr., Mohammad Sharifzadeh., Mahdi Vazirian., Seyede Nargess Sadati Lamardi., Antinociceptive effects of Paeonia daurica subsp. macrophylla root extracts in mice, Traditional and Integrative Medicine.
- Sharafi-Badr P, Ehsandoost, Ghasemiyandpour N, Mohammadi M, Safari R, Habibi M, Effect of sodium alginate-calcium chloride coating and glycerol and sorbitol concentration on oxidative stability and fungal growth of Persian walnut (*Juglans regia* L.), Revista Mexicana de Ingeniería Química.
- Sharafi Badr P., Adhami HR., Jahanbin K., Karobi S., Ghahremani MH., Monsef Esfahani HR., Cytotoxic Activities of New Water-Soluble Polysaccharides Purified from the Bulbs of *Ornithogalum bungei* Boiss. International Journal of Biological Macromolecules (Under review).

#### Conference Presentation.....

- Monsef-Esfahani MA, Mohammadi M, Ehsandoost E, Sharafi-Badr P., Production of Low Fat Fried Shrimp by Using Extracted Sodium Alginate from Sargassum angustifolium as Coating Material., The 6th International Conference on Interdisciplinary Studies in Food Industry and Nutrition Science of Iran, Tehran. Iran. 2022. (Oral).
- Sharafi Badr P., Adhami HR., Jahanbin K., Ghahremani MH., Monsef Esfahani HR., Isolation, characterization and cytotoxic activities of new water-soluble polysaccharides from the bulbs of *Ornithogalum bungei* Boiss. The 16th Iranian Pharmaceutical Sciences Congress, Kermanshah. Iran. 2019. (Oral), (Best Oral Presentation Award).
- Sharafi Badr P., Adhami HR., Jahanbin K., Ghahremani MH., Monsef Esfahani HR., "Cytotoxic activities of new water-soluble polysaccharides from *Ornithogalum bungei*" The 67th International Congress and Annual Meeting of the Society-for-Medicinal-Plant-and-Natural-Product-Research(GA), Innsbruck. Austria. 2019. (Poster).
- Sharafi Badr P., Baha'addini Beigy F., Pirsalami F., "Assessment of Stereotypic Behaviors induced by Apomorphine and Strychnine in Mice" The 8th Annual Meeting of the Social & Affective Neuroscience Society, Boston. MA, USA. 2014. (Poster).
- Sharafi-Badr P., Hatam Gh., Bastani A., "Performance of Enzyme Immunoassay (ELISA) in Diagnosis of Malaria in Hormozgan: A Seroepidemiological Study" Challenges in Malaria Research, Urmia, Iran, 2014. (Oral Presentation).

#### Book.....

- Sharafi-Badr, P., Hayati, P. and Mahmoudi, G., 2022. Biological MOFs (bio-MOFs) for energy applications. In Metal-Organic Framework-Based Nanomaterials for Energy Conversion and Storage Book Chapter. (pp. 81-103). Elsevier.
- Potentiality of nanoscale coordination polymers (NCPs) in biomedical imaging. Book Chapter Elsevier Pre Order.
- Marine Products for Healthcare, Functional and Bioactive Nutraceutical Compounds from The Ocean. (Book Translation)
- Seaweed Polysaccharides: Isolation, Biological and Biomedical Applications, No. 282482 (Book Translation).

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## RESEARCH INTEREST

- Carbohydrate Chemistry

- Glycobiology
  - Natural Polymers and Polysaccharides
  - Marine Carbohydrates and Biological Functions
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## EXPERIENCE

### Work Experience.....

**Assistant Professor** **2022 – Present**

*Iran University of Medical Sciences*

**Assistant Lecturer** **2019 – 2021**

*Iran University of Medical Sciences*

### Research Experiences.....

**Research Assistant** **2010-2021**

*Shiraz & Tehran University of Medical Sciences*

- Animal experiences on laboratory models:
  - Microdialysis & Stereotax Surgery.
  - Rat PFC Cannulation Surgery.
  - Skin Flap.
  - Bleomycin-Induced Scleroderma Skin Fibrosis Model.

**Research Assistant** **2014-2022**

*Tehran University of Medical Sciences*

- Isolation of Bioactive Plant Constituents Using Advanced Chromatographic Techniques:
  - Separation on VLC.
  - Column Chromatography Using Different Adsorbent as RP, Sephadex, DEA Cellulose, or Polyamide separation using PC.

**Research Assistant** **2018-2023**

*Tehran & Iran University of Medical Sciences*

- Investigation and Identifying Pro-inflammatory; Anti-inflammatory; Antimicrobial; Antioxidant Tumor Inhibitory Components and Anti Tyrosinase Extracts or Isolated Compounds from Medicinal Plants.

**Research Assistant** **2019-2022**

*Tehran University of Medical Sciences*

- Single Crystal Growth Methods.

**Research Assistant** **2017-2023**

*Tehran & Iran University of Medical Sciences*

- Structure Elucidation Using Different Spectroscopic Techniques. (UV, IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR, H, H-COSY, HMQC, EI-MS, ESI-MS).

**Research Assistant** **2019-2022**

*Tehran & Iran University of Medical Sciences*

- Analysis and Standardization of Plant Extract Using High-Performance Liquid Chromatography Technique (HPLC).

**Research Assistant** **2019-2022**

*Tehran University of Medical Sciences*

- Acetylcholine esterase Inhibitory Activity Test, Tyrosinase Inhibitory Activity Test, Antioxidant Activity Test,  $\alpha$ -Glucosidase,  $\alpha$ -Amylase, Lipase Inhibitory Test.

**Research Assistant** **2017-2023**

*Tehran University of Medical Sciences*

- MTT Assay, Western blot, and ELISA.

**Research Assistant** **2022-2023**

*Tehran & Iran University of Medical Sciences*

- Investigated the cytotoxic and antimicrobial effects of the aerial branches of *Pycnocycla nodiflora*.

**Research Assistant** **2022-2023**

*Iran University of Medical Sciences*

- Prepared and evaluated carrageenan-phycoyanin hybridized hydrogel with silver nanoparticles to investigate antibacterial effects.

**Research Assistant** **2020**

*Persian Gulf University*

- Isolation, characterization, and purification of bioactive compounds from green algae *Caulerpa* and red algae *Laurencia*.

**Research Assistant** **2019**

*Persian Gulf University*

- Isolation and cytotoxicity evaluation of the main compounds from polar sub-fraction of dichloromethane extract from *Ornithogalum bungei* Boiss.

**Research Assistant** **2019**

*Persian Gulf University*

- Isolation and cytotoxicity evaluation of the main compounds from semi-polar sub-fraction of dichloromethane extract from *Ornithogalum bungei* Boiss.

**Research Assistant** **2017**

*Shiraz University of Medical Sciences* **Shiraz - Iran**

- Investigated the volatile constituents and antioxidant activity of *Crateagus aronia* L. extract<sup>?</sup>.

**Research Assistant** **2019 -2023**

*Iran University of Medical Sciences*

- Investigated the effect of natural compounds administration along with metformin on skin flap survival.

**Research Assistant****2019-2023***Iran University of Medical Sciences*

- The Effects of Fucoidan Polysaccharide Extracted from *Sargassum Oligocystum* Algae on the Survival of Colon Microbiomes.

**Research Assistant****2019-2023***Iran University of Medical Sciences*

- Natural-based absorbents of polysaccharide, as a novel support for treatment of metal pollution.

**Teaching Experience**.....**Teacher****2019 - Present***Iran University of Medical Sciences, Tehran University of Medical Sciences**Tehran University of Medical Sciences, International Campus*

- **Course:** Medicinal Plants (English & Persian)

**Teacher****2019 - Present***Iran University of Medical Sciences, Tehran University of Medical Sciences**Tehran University of Medical Sciences, International Campus*

- **Course:** Medicinal Plants (Practical) (English & Persian)

**Teacher****2020 - Present***Iran University of Medical Sciences, Tehran University of Medical Sciences**Tehran University of Medical Sciences, International Campus*

- **Course:** Pharmacognosy (1) (English & Persian)

**Teacher****2020 - Present***Iran University of Medical Sciences, Tehran University of Medical Sciences*

- **Course:** Pharmacognosy (2) (English & Persian)

**Teacher****2020 - Present***Iran University of Medical Sciences, Tehran University of Medical Sciences*

- **Course:** Pharmacognosy (Practical) (English & Persian)

**Lab Assistant****2019***Persian Gulf University*

- **Course:** Instrumental Analysis

**Teacher****2018-2023***Iran University of Medical Sciences***Course:** Thesis Projects of students

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**LINKS**

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