

## EDUCATION

### • Doctor of Pharmacy (PharmD) | 2003 - 2011

Kermanshah University of Medical Sciences, Kermanshah, Iran

GPA: 3.26/4.0 (14.67)

GPA of the last two years: 3.67/4.0, (17.65)

Thesis Topic: Effects of temozolomide on U87MG glioblastoma cell expression of CXCR4, MMP2, MMP9, VEGF, anti-proliferative cytotoxic and apoptotic properties (Grade: 19.5/20)

Supervisor: Dr. Amir Kiani

## RESEARCH INTERESTS

- Drug Cytotoxicity Evaluation
- Metastatic Cell Invasion
- Apoptosis
- CXCR4 Receptors
- Immunophenotyping
- Glioblastoma Pathology
- Enzyme-Linked Immunosorbent Assay
- Antineoplastic Agents Pharmacology

## PUBLICATIONS

### Journal papers

- **Mirabdaly, S.**, Shakiba, Y., Salehi, N., Kiani, A.; Investigating the amount and activity of MMP2 and MMP9 in serum of heart valve replacement patients referred to Imam Ali Hospital in Kermanshah. (In Prep.)
- **Mirabdaly, S.**, Waisi raygani, A, Shakiba, Y., Kiani, A.; Investigating the normal range of zinc in the urine of infants and healthy children in Kermanshah in 2021. (In Prep.)
- Gheibi, S., **Mirabdali, S.**, Kiani, A., Shokoohinia, Y.; Investigating the effect of sesquiterpene coumarins of *Ferula assafoetida* on VEGF, MMP9, MMP2 and studying the connection between them using computational methods and determining the effect of substances on the induction of apoptosis in cell lines and the resulting oxidative stress. Iranian Journal of Pharmaceutical Research: IJPR. 2022;21(5):249
- Aliabadi, A., Kiani, A., **Mirabdali, S.**; Synthesis and evaluation of cytotoxicity of N-(5-(benzylthio)-4H-4,2,1-triazol-3-yl)-2-(3,1-dioxo-1H-benzo[de]isoquinoline derivatives)-2-(3H-yl) acetamide with potential anticancer effects. Iranian Journal of Pharmaceutical Research: IJPR. 2021;19(3):541.
- **Mirabdaly, S.**, Elieh Ali Komi, D., Shakiba, Y., Moini, A., Kiani, A.; Effects of temozolomide on U87MG glioblastoma cell expression of CXCR4, MMP2, MMP9, VEGF, anti-proliferatory cytotoxic and apoptotic properties. Molecular biology reports. 2020 Feb;47(2):1187-97.
- Malekshahi, Y., Gheibi, S., Ghiasvand, N., Jafari, F., **Mirabdali, S.**, Kiani, A., Shokoohinia, Y.; Effects of prantschimgin and grandivitin from *Ferulago macrocarpa* on VEGF, MMP9, MMP2 and research of binding modes using computational methods. International Pharmacy Acta. 2018;1(1):92-3.
- Shavandi, M., Kiani, A., Assar, S., **Mirabdali, S.**; The study of Livergol® effect as an Adjunctive Drug on Serum Levels of MMP2, MMP9 and VEGF in Rheumatoid Arthritis Patients. Iranian Journal of Allergy, Asthma & Immunology. 2018
- Gheibi, S., Ghiasvand, N., Jafari, F., **Mirabdali, S.**, Kiani, A., Shokoohinia, Y.; Effects of dihydropyran coumarins from *Ferulago macrocarpa* on VEGF, MMP9, MMP2 and study of binding modes using computational methods. Research Journal of Pharmacognosy. 2017 Nov 1;4(Supplement):111-.
- Aliabadi, A., Hasanvand, Z., Kiani, A., **Mirabdali, S.**; Synthesis and In-vitro Cytotoxicity Assessment of N-(5-(Benzylthio)-1, 3, 4-thiadiazol-2-yl)-2-(4-(trifluoromethyl) phenyl) acetamide with Potential Anticancer Activity. Iranian Journal of Pharmaceutical Research: IJPR. 2013;12(4):687.

### Conference papers

- **Mirabdali, S.**, Kiani, A.; Comparative investigation of selenium levels in maternal blood and umbilical cord in premature and full-term infants. 19th Seminar of Iranian pediatric specialists, Shiraz, Iran, 2021
- Adibi, H., **Mirabdali, S.**; Titanium-Squarate Complex: Novel and Recyclable Lewis Acid Catalyst for One-Pot Synthesis of 3, 4-Dihydropyrimidinones or Their Sulfur Analogues via Solvent-Free Biginelli Condensation Protocol. 13th Seminar of Iranian Pharmacy Students, Tabriz, Iran, 2007

---

## RESEARCH EXPERIENCE

- **Research Assistant, March 2006 – December 2022**

Kermanshah University of Medical Sciences, Kermanshah, Iran

Description: Researching on the culturing of different cancer cell lines to investigate the cytotoxic effects of new anticancer drugs and to determine the extent of their impact on the factors involved in metastasis •determining their biochemical profile, determining the amount, activity, and expression of the MMP2, MMP9, and VEGF gene is the investigation of chemokine receptors cxcr4

---

## WORK EXPERIENCE

- **Pharmacist, January 2016 – Present**

Dr. Mirabdali drugstore, Kermanshah, Iran

Description: Providing pharmaceutical consultations to the patients and customers of the pharmacy collaborating with the management activities of the pharmacy

- **Pharmacist, November 2015 – January 2016**

Quds State Hospital, Paveh, Kermanshah, Iran

Description: Provided pharmaceutical advice to patients and collaborated with hospital physicians in their research to write clinical articles

- **Lab Technician, December 2013 – November 2015**

Biochemistry lab, College of Medicine, KUMS, Iran

Description: Worked with laboratory equipment, conducted laboratory techniques, and cooperated with researchers conducting biochemical assays

---

## SELECTED COURSES

- |                                  |         |                        |         |
|----------------------------------|---------|------------------------|---------|
| • Biopharmacy & Pharmacokinetic: | 4.0/4.0 | • Clinical Pathology:  | 4.0/4.0 |
| • Toxicology:                    | 4.0/4.0 | • Clinical Immunology: | 4.0/4.0 |
| • Pharmaceutical Biotechnology:  | 4.0/4.0 | • Pharmacology:        | 4.0/4.0 |
| • Cell Culture:                  | 4.0/4.0 | • Pharmaceutics:       | 4.0/4.0 |
| • Clinical Biochemistry:         | 4.0/4.0 |                        |         |

---

## HONORS & AWARDS

- The **best pharmacist** of the year based on a survey of the pharmacists' association of Kermanshah province, Iran, 2016, 2018
- The **best employee** of the hospital in Paveh province, Iran, 2014
- **Top researcher** of the medical school of Kermanshah University of Medical Sciences, Iran, 2012
- Ranked as the **second** among 90 pharmacy students at the end of PharmD, Kermanshah University of Medical Sciences, Iran, 2012
- Ranked as the **third** place of brilliant talents among 460 Ph.D. Students of Kermanshah University of Medical Sciences, Iran, 2012
- Winner of the **second** prize of the best student articles of the 16th national seminar of pharmaceutical students of Iran, 2012
- Winner of the **first** prize of the best student articles of the 14th national seminar of pharmaceutical students of Iran, 2011
- Winner of the **first** prize of the best student articles of the 13th national seminar of pharmaceutical students of Iran, 2010
- Ranked within the **top 5%** among 950 participants in a comprehensive exam of basic pharmaceutical sciences, Iran, 2007
- Ranked within the **top 0.5 %** among approximately 400,000 participants in the National Entrance Exam for Iranian universities, Iran, 2003

---

## WORKSHOPS

- 80-Hour workshop on application of SPSS software in medical research, Kermanshah University of Medical Sciences, Kermanshah, Iran, 2021
- 120-Hour workshop on new targets in cancer treatment, Shiraz University of Medical Sciences, Shiraz, Iran, 2020
- 3-Day workshop on challenges of cell culture, Kermanshah University of Medical Sciences, Kermanshah, Iran, 2019
- 3-Day workshop on crisis management, Shiraz University of Medical Sciences, Shiraz, Iran, 2016
- 6-Day workshop on rational drug prescription in gastrointestinal diseases and poisoning, Kermanshah University of Medical Sciences, Kermanshah, Iran, 2015
- 4-Day workshop on hospital infections, antibiotics and challenges, Kermanshah University of Medical Sciences, Kermanshah, Iran, 2013

---

## LABORATORY SKILLS

- |   |                                   |
|---|-----------------------------------|
| • Working with animal models  | • Real-time PCR                   |
| • Electrophoresis   | • LDH assay                       |
| • Preparation of solutions, Pipetting, pH adjustment, Buffers           | • MTT assay                       |
| • Centrifugation  | • Malondialdehyde assay           |
| • Using commercial kits   | • Zymography Immunohistochemistry |
| • Cell culture  | • Flow cytometry                  |
| • Blotting methods (western, southern, northern)                        | • Haematoxylin/Eosin staining     |
| • Enzyme-Linked Immunosorbent Assay (direct, indirect, sandwich)        |                                   |
| • Gel electrophoresis (agarose, native, SDS, reducing SDS)              |                                   |
| • Chromatography (HPLC, column, size exclusion, ion exchange, affinity) |                                   |

---

## TEACHING EXPERIENCE

- **Teaching Assistant, September 2011 – May 2012**  
Pharmacy faculty, Kermanshah University of Medical Sciences, Kermanshah, Iran  
Course: Cell culture  
Professor: Dr. Amir Kiani

---

## COMPUTER SKILLS

- **Applied Software:** SPSS16, ImageJ, ImageQuant, Cell Profiler, Adobe Photoshop, Microsoft office

---

## TEST SCORES

- TOEFL iBT: 107 (Reading 30, Listening 28, Writing 26, Speaking 23)
- The GRE will be taken in November 2022.

---

## MEMBERSHIPS

- Member of the Board of Directors of Kermanshah Pharmacists Association, 2016 – 2021
- Member of the Association of Brilliant Talents of Kermanshah University of Medical Sciences, 2006 – 2010
- Member of Iranian Pharmacy Students Association, 2003 – 2011

---

## VOLUNTEER EXPERIENCE

- Worked at MAHAK (non-profit organization to help children with cancer), 2008 – Present
- Worked at Nick Bonyaadon Mehregan Organization (non-profit organization to support and assist families to reduce their pains and problem with the financial and spiritual help of fellow citizens), 2008 – Present

---

## REFERENCES

- Professor Asad Vaisi Raygani, Professor  
Department of Biochemistry, Faculty of Medicine, Kermanshah University of Medical Sciences, Kermanshah, Iran  
Email: [asadvaisiraygani@kums.ac.ir](mailto:asadvaisiraygani@kums.ac.ir)
- Dr. Amir Kiani, Associate Professor  
Department of Pharmacology, Pharmacy Faculty, Kermanshah University of Medical Sciences, Kermanshah, Iran  
Email: [akiani@kums.ac.ir](mailto:akiani@kums.ac.ir)
- Dr. Mohsen Shahlaei, Associate Professor  
Department of Medicinal Chemistry, Pharmacy Faculty, Kermanshah University of Medical Sciences, Kermanshah, Iran  
Email: [mshahlaei@kums.ac.ir](mailto:mshahlaei@kums.ac.ir)