

Curriculum Vitae

Mahdieh Ahmadi Kamalabadi

Nationality	Iranian
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Education:

M.Sc. Radiobiology and Radiation Protection, Iran University of Medical Sciences, Tehran, Iran (Oct 2016- September 2019)

Thesis subject:

- Investigation of the effects of folic acid conjugated gold coated magnetic nanoparticles in the presence of electric field and 6MV X-ray on cell survival and induction of apoptosis in KB and HGF cell lines

B.Sc. Radiology, Shiraz University of Medical Sciences, Shiraz, Iran (February 2005- February 2007)

A.Sc. Radiology, Rafsanjan University of Medical Science, Rafsanjan, Iran (Oct 2000- Jul 2002)

Work Experience:

Instructor in Radiology Department, Faculty of Allied Medical Sciences, Rafsanjan University of Medical Sciences, Rafsanjan, Iran (September 2007- Present)

Teaching Experiences:

- Physical Principles of Computed Tomography Systems, Rafsanjan University of Medical Sciences.
- Physics of Diagnostic Radiology, Rafsanjan University of Medical Sciences.
- Radiographic Methods (1), Rafsanjan University of Medical Sciences.
- Radiographic Methods (2), Rafsanjan University of Medical Sciences.
- Radiographic Methods (3), Rafsanjan University of Medical Sciences.
- Special Radiographic Methods, Rafsanjan University of Medical Sciences.
- Computed Tomography Techniques, Rafsanjan University of Medical Sciences.
- Radiobiology, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.
- Medical Imaging Display and Record, Rafsanjan University of Medical Sciences.
- Radiation Protection, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.
- Assurance and Quality Control of Medical Imaging Methods, Rafsanjan University of Medical Sciences.

Academic Awards:

- Receive a letter of appreciation from the 6th Festival of Knowledge (Special thanks to excellent students of Shiraz University of Medical Sciences), Shiraz, Iran, January 2007. - 1st Rank, Achieving the highest GPA among all undergraduate classmates.
- 1st Rank, Achieving the highest GPA among all associate degree classmates

Workshops:

- Flow cytometry, Shiraz University of Medical Sciences, Shiraz, Iran, 2018.
- Western blotting, Shiraz University of Medical Sciences, Shiraz, Iran, 2018.

Executive experience:

- Secretary of the Research Core "New Technologies in Community Health", Social Determinants of Health Research Center, Rafsanjan University of Medical Sciences, since October 2023.
- Member of the Scientific Committee of the 10th International Conference on Nanoscience and Technology, Vali-e-Asr University of Rafsanjan, January 2025.
- Member of the Executive Committee of the 10th International Conference on Nanoscience and Technology, Vali-e-Asr University of Rafsanjan, January 2025.
- Promotion expert, Faculty of Allied Medical Sciences, Rafsanjan University of Medical Sciences (from May 2021 to March 2024).
- Education development expert, Faculty of Allied Medical Sciences, Rafsanjan University of Medical Sciences (from January 2023 to March 2024).
- Advisor for Radiology Students, Faculty of Allied Medical Sciences, Rafsanjan University of Medical Sciences (from September 2009 to January 2017)

Research experience:

- Researcher of Non-communicable Diseases Research Centre, Rafsanjan University of Medical Sciences.
- Researcher of Molecular Medicine Research Center, Rafsanjan University of Medical Sciences.

Publications:

1. Freshteh Koosha, Samira Eynali, Nazila Eyvazzadeh, **Mahdieh Ahmadi Kamalabadi***. **The effect of iodine-131 beta-particles in combination with A-966492 and Topotecan on radio-sensitization of glioblastoma: An in-vitro study.** *Applied Radiation and Isotopes*, 2021, 1; 177:109904. <https://doi.org/10.1016/j.apradiso.2021.109904>.
2. Sepand Tehrani Fateh, **Mahdieh Ahmadi Kamalabadi**, Azita Aliakbari, Saeideh Jafarinejad-Farsangi, Maedeh Koochi, Elham Jafari, Zahra Miri Karam, Fariborz Keyhanfar, Amin Shiralizadeh Dezfuli. **Hydrophobic@Amphiphilic Hybrid Nanostructure of Iron-oxide and Graphene Quantum Dot Surfactant as a Theranostic Platform.** *OpenNano*, 2022, 100037. <https://doi.org/10.1016/j.onano.2022.100037>
3. Sanaz Hekmat, Ali Neshasteriz, **Mahdieh Ahmadi Kamalabadi**, Samira Eynali, Habib Ghaznavi, Elham Afjeh-Dana. **Different Effects of Reversible Electroporation Mediated**

Fe₃O₄@AuNPs Delivery as Radiosensitizing Agents on Cancer Cells versus Normal Cells. *NANO*, 2022. <https://doi.org/10.1142/S1793292022500370>.

4. **Mahdieh Ahmadi Kamalabadi**, Ali Neshastehriz, Habib Ghaznavi, Seyed Mohammad Amini. **Folate functionalized gold-coated magnetic nanoparticles effect in combined electroporation and radiation treatment of HPV-positive oropharyngeal cancer.** *Medical Oncology*, 2022, 39; 12: 1-10. <https://doi.org/10.1007/s12032-022-01780-2>.
5. Yasamin Kavousi, Mohadeseh Mohammadi, **Mahdieh Ahmadikamalabadi**, Fereshteh Koosha. **Gold nanoparticles in radiation therapy: an old story yet mesmerizing.** *Iranian Journal of Blood and Cancer*, 2022; 14 (4) :140-149.
6. Mahnaz Tashakori, Fatemeh Asadi, Faezeh-Sadat Khorram, Azita Manshoori, Ali Hosseini-Chegeni, Fatemeh Mohseni Moghadam, **Mahdieh Ahmadi Kamalabadi**, Aliakbar Yousefi-Ahmadipour. **Effects of MRI on stemness properties of Wharton's jelly-derived mesenchymal stem cells.** *Cell and Tissue Banking*, 2023; 1-11. <https://doi.org/10.1007/s10561-022-10052-2>.
7. Fereshteh Koosha, **Mahdieh Ahmadi Kamalabadi**, Amirmohammad Yousefi, Davood Bashash. **COVID-19 diagnostic approaches with an extensive focus on computed tomography in accurate diagnosis, prognosis, staging, and follow-up.** *Polish Journal of Radiology*, 2023, 88; 1, 53-64. <https://doi.org/10.5114/pjr.2023.124597>.
8. Fereshteh Koosha, **Mahdieh Ahmadi kamalabadi**, Mohadesseh Mohammadi. **Review of recent improvements in carbon ion radiotherapy in the treatment of glioblastoma.** *Advances in Radiation Oncology*.2024, 101465. <https://doi.org/10.1016/j.adro.2024.101465>.
9. **Mahdieh Ahmadi Kamalabadi**, Hamid Ostadebrahimi, Fereshteh Koosha, Asieh Fatemidokht, Iman Menbari Oskuie, Fatemeh Amin, Amin Shiralizadeh Dezfuli. **GdGQDs as nanotheranostic platform for the treatment of HPV-positive oropharyngeal cancer.** *Medical Oncology*, 2024, 41(8), 205. <https://doi.org/10.1007/s12032-024-02431-4>.
10. **Mahdieh Ahmadi Kamalabadi**, Somayeh Kazempour, Asieh Fatemidokht, Mikaeil Molazadeh, Fereshteh Koosha. **Poly (amidoamine) Dendrimers in Cancer Therapy: Chemotherapy, Radiotherapy and Imaging Advances.** *Iranian Journal of Blood and Cancer*, 2024, 16 (4), 86-104. [10.61186/ijbc.16.4.86](https://doi.org/10.61186/ijbc.16.4.86)
11. Banafsheh Baniasadipour, Fariba Bagheri, Farzane Hendudari, Soheila Koopaee, Seyed Mohammad Amini, **Mahdieh Ahmadi Kamalabadi***, Asieh Fatemidokht. **Molecular and Microstructural MRI of Neuroinflammation in Alzheimer's Disease.** *Current Alzheimer Research*, 2026. <https://doi.org/10.2174/0115672050420458251115070244>

Research projects:

1. Creating models for localization of the brain plaques in MS patients to check disease progression using artificial intelligence based on radiomic features extracted from patients' magnetic resonance images. (*Rafsanjan University of Medical Sciences*)
2. Evaluation of arsenic concentrations in drinking water of Rafsanjan and Anar cities and its relationship with the prevalence of some cancers. (*Rafsanjan University of Medical Sciences*)
3. A review of polyamine amide dendrimer (PAMAM) nanoparticles in cancer therapy:

their application in chemotherapy, radiotherapy and imaging methods. (*Shahid Beheshti University of Medical Sciences*)

4. Investigating changes in radiation sensitivity of quantum graphene-gadolinium nanoparticles in the presence of 6 megavoltage X-rays on head and neck cancer cells in vitro. (*Shahid Beheshti University of Medical Sciences*)
5. Registering and collecting information on Parkinson's patients in line with the implementation of clinical research at Rafsanjan University of Medical Sciences. (*Rafsanjan University of Medical Sciences*)
6. Evaluation of respiratory distress score and clinical symptoms based on oxygen therapy status in patients with ARDS caused by Covid-19 admitted to Ali Ibn Abitaleb Hospital in Rafsanjan. (*Rafsanjan University of Medical Sciences*)
7. Association of the relationship between nutritional status and disease severity in the population of patients with Covid-19 covered by the Rafsanjan cohort study. (*Rafsanjan University of Medical Sciences*)
8. Investigating the association between clinical history and personal habits with the severity of COVID-19 disease (*Rafsanjan University of Medical Sciences*)
9. Investigation some indicators of recovery in patients with COVID-19 in Rafsanjan in 2020. (*Rafsanjan University of Medical Sciences*)
10. Investigation of cytotoxic effect of magnetic field (MRI) on normal MCF-10 and cancerous MCF-7 cell lines. (*Rafsanjan University of Medical Sciences*)
11. Study of MRI effect on Oct-4 and Nanog genes in mesenchymal stem cells derived from amniotic fluid and umbilical cord. (*Rafsanjan University of Medical Sciences*)
12. Investigation of cytotoxic bystander effects of magnetic field on normal MCF-10 and cancerous MCF-7 cell lines. (*Rafsanjan University of Medical Sciences*)
13. Evaluation of the Radiation protection knowledge of the operating room staffs in Rafsanjan University of Medical Science hospitals in 2015. (*Rafsanjan University of Medical Sciences*)
14. Study of mammography results of patients referred to the radiology department of Moradi Hospital, Rafsanjan, in the first quarter of 2012.
15. Investigating the correlation between test anxiety and academic performance among students of Rafsanjan University of Medical Sciences in 2012

Conference Presentation:

1. Breast cancer screening and mammography findings in women referred to radiology department of Moradi medical center in Rafsanjan. National conference of radiological sciences: The role of radiation in diagnosis and treatment, Rafsanjan University of Medical Sciences, Rafsanjan, Iran, 2018.
2. Evaluation of collimation and beam perpendicular of radiographic devices in diagnostic radiology departments of Rafsanjan hospitals in 2012. 8th student congress of eastern medical sciences universities, North Khorasan University of Medical Sciences, Bojnourd, Iran, 2012.
3. Investigating the relationship between prayer and depression among students of Rafsanjan University of Medical Sciences. The Third Research Conference of Student Research Committees of Medical Sciences Universities, Shahrekord University of Medical Sciences, Shahrekord, Iran, 2011.

Research Interests:

- Radiobiology & Radiation Protection
- Cancer Nanotechnology
- Nanomedicine