

In the Name of God

***Ministry of Health, Treatment and Medical Education
Iran Medical Researchers Directory***

CURRICULUM VITAE



PERSONAL INFORMATION

Name: Atefeh
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EDUCATIONAL BACKGROUND

PhD in Medical Physics, Department of Medical Physics, Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran (2019)

MSc. in Medical Physics, Department of Medical Physics, Faculty of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran (2014)

BSc. in Applied Physics, Department of Physics, Faculty of Basic Sciences, Ferdowsi University of Mashhad, Mashhad, Iran (2011)

DISSERTATIONS

PhD Thesis Title:

- ✓ Radiotherapy treatment planning based on magnetic resonance images (2017-2019)

MSc Thesis Title:

- ✓ Evaluation the effects of thio-glucose gold nanoparticles on radiation sensitivity and the level of radiation-induced bystander effects in MCF7 and QUDB cells (2013-2015)

Awards and Ranks

- ✓ 9nd Rank in PhD exam of Iranian Ministry of Health and Medical Education (Medical physics), 2015
- ✓ 7th Rank in MSc exam of Iranian Ministry of Health and Medical Education (Medical physics), 2011

TEACHING EXPERIENCES

I: Monte Carlo simulation

II: Basic Physics

III: Biophysics

PROFESSIONAL MEMBERSHIP

- ✓ Member of Medical Physics & Radiological Sciences Department, Faculty of Allied in Medicine, Sabzevar University of Medical Sciences. 2019

RESEARCH FIELDS OF INTERESTS

- ✓ Research Field I: *Medical Imaging applied in radiotherapy procedure*
- ✓ Research Field II: *Monte Carlo Simulation methods for dose calculation in external radiotherapy and brachytherapy*
- ✓ Research Field III : *Radiation Dosimetry specially in radiotherapy*
- ✓ Research Field IV: *Assessment the effect of ionizing radiation on biological systems*

CONFERENCE PARTICIPATION

1. "Increased radiotoxicity in two cancerous cell lines irradiated by low and high energy photons in the presence of thio-glucose bound gold nanoparticles"

- 11th Iranian Conference of Medical Physics. 2014.Tehran. Iran
2. “The effect of glucose-coated gold nanoparticles on radiation bystander effect induced in MCF-7 and QUDB cell lines”
- 11th Iranian Conference of Medical Physics. 2014.Tehran. Iran
3. “Theranostic application of gold nanoparticles”
- 3th international Nastaran Cancer Symposium. 2017. Mashhad. Iran
4. “Phantom-based evaluation and correction of magnetic resonance images distortion for radiotherapy treatment planning system”
- International conferences of Perspectives of Advanced Radiotherapy in middle income countries. 26-68 September 2018. Tehran. Iran
5. “Evaluation and correction of system related geometric distortion for magnetic resonance images by a new large field of view phantom for MRI based radiotherapy treatment planning”
- 4th International Clinical Oncology. 2019. Tehran. Iran
6. “ Comparison three different methods of pseudo CT construction for MRI based radiotherapy treatment planning in pelvic region”
- 4th International Clinical Oncology. 2019. Tehran. Iran
7. ...

PUBLICATIONS

1. Toossi, M.T.B.,Ghorbani, M.,**Rostami, A.**,Khosroabadi, M.,Khademi, S.,Knaup, C. Comparison of the hypothetical ⁵⁷Co brachytherapy source with the ¹⁹²Ir source. 2016. Wspolczesna Onkologia 20 (4) ,pp.327.
2. Soleymanifard, S.,**Rostami, A.**,Aledavood, S.A.,Matin, M.M.,Sazgarnia, A. Increased radiotoxicity in two cancerous cell lines irradiated by low and high energy photons in the presence of thio-glucose bound gold nanoparticles. 2017. International Journal of Radiation Biology 93 (4) ,pp.407.
3. **Rostami, A.**,Toossi, M.T.B.,Sazgarnia, A.,Soleymanifard, S. The effect of glucose-coated gold nanoparticles on radiation bystander effect induced in MCF-7 and QUDB cell lines. 2016. Radiation and Environmental Biophysics 55 (4) ,pp.461.
4. **Atefeh Rostami** , Shokouhozamane Soleymanifard. Toxicity and Attenuation of Gold Nanoparticles as a cancer theranostic agent. 2018. Advances in Nanobiotechnology (1) . pp. 9-15.
5. **Atefeh Rostami** , Ameneh Sazgarnia. Gold Nanoparticles as a Cancer Theranostic Agent. Nanomed. J. 6(3): 147 -160, summer 2019.

WORKSHOPS

1. Workshop of Article construction and the best methods for scientific searches. Mashhad University of medical sciences. 2012. Mashhad. Iran
2. Workshop of laboratory animals. Mashhad University of medical sciences. 2012. Mashhad. Iran
3. Workshop of advanced radiotherapy techniques. Reza radiotherapy center. 2013. Mashhad. Iran
4. Workshop of clinical application of treatment planning systems and radiation dosimetry. Reza radiotherapy center. 2013. Mashhad. Iran
5. Workshop of best journal for my article. Mashhad University of medical sciences. 2015. Mashhad. Iran
6. Workshop of Monte Carlo simulation (MCNPX2.6). Mashhad University of medical sciences. 2016. Mashhad. Iran
7. Workshop of medical image processing with MATLAB software. Mashhad University of medical sciences. 2016. Mashhad. Iran
8. Workshop of independent dose verification of patient. Reza radiotherapy center. 2017. Mashhad. Iran

EXPERIENCE

Software:

- MCNP 4C, MCNPX (Monte Carlo simulation)
- 3D slicer (Image processing)
- MATLAB programming
- Isogray treatment planning system
- ENDNOTE, Statistical analysis software (SPSS)
- Microsoft office (Word, Power point, Excel)

Scientific and Special Skills:

- Cell culture and related experimental work
- Cellular tests of MTT, colony assay, and comet assay
- Gold nanoparticles synthesis in MSc. course
- Radiotherapy treatment planning
- Relative and Absolute Dosimetry in RT
- Medical image processing related to my PhD thesis
- Monte Carlo Simulation