

CURRICULUM VITAE
Of
Karim Khoshgard, Ph.D.



**Current Position: Department of Medical Physics,
Faculty of Medicine,
Kermanshah University of Medical Sciences,
P.O.Box:14965/115, Kermanshah, IRAN.
TEL: +988334274621
FAX: +988334274622
E-MAIL: khoshgardk@gmail.com**

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1. Personal Details

Name: Karim

Surname: Khoshgard

Place of birth: Karaj, Iran

Marital status: Married

2. Educational Qualification

Ph.D in Medical Physics: Tarbiat Modares University, Tehran, Iran (2008-2012).

M.Sc in Medical Physics: Iran University of Medical Sciences, Tehran, Iran (2005-2008).

B.Sc in Physics: Shahrood University of Technology, Shahrood, Iran (2001-2005).

3. Employment

Since April 2013, Assistant Professor, Department of Medical Physics and Biomedical Engineering, Faculty of Medicine, Kermanshah University of Medical Sciences, Kermanshah, Iran.

4. Research Interests

- Radiobiology,
- Radiation Therapy,
- Medical Imaging,
- Radiation Protection,
- Nanotechnology in Cancer Diagnosis & Treatment

5. Teaching Experiences

- Radiobiology (M.Sc & B.Sc)
- Atomic and Nuclear Physics (M.Sc)
- Medical Imaging Systems (M.Sc)
- Nuclear Medicine Physics (M.Sc)
- Physics of Radiology (M.Sc)
- Radiation Dosimetry (B.Sc)
- Radiation Physics (B.Sc)
- Health Physics & Radiation Protection (B.Sc)
- Physics (B.Sc)

6. Honors

- Ranked first among all graduate students of physics in B.Sc.
- Ranked first among all master students of medical physics (in M.Sc).
- Ranked first among all post graduate students of medical physics in Ph.D.

7. Papers Published in Journals

1. Mehdi Mousavi, Hassan Ali Nedaei, Samideh Khoei, Karim Khoshgard, Mostafa Robotjazi, Rasoul Iraj Rad. "*Enhancement of radiosensitivity of melanoma cells by*

- pegylated gold nanoparticles under irradiation of megavoltage electrons" International Journal of Radiation Biology, Published online: 05 Oct 2016;1-8.*
2. Hadis Tahmasebi, Karim Khoshgard*, Ameneh Sazgarnia, Ali Mostafaie, Mohammad Taghi Eivazi. "Enhancing the efficiency of 5-aminolevulinic acid-mediated photodynamic therapy using 5-fluorouracil on human melanoma cells". **Photodiagnosis and Photodynamic Therapy**, 2016;13:297-302.
 3. Hossein Mafakhei, Karim Khoshgard*, Abbas Haghparast, Ali Mostafaie, Mohammad-Taghi Eivazi, Masood Rezaei. "Investigating the radiosensitivity effect of dextran coated iron oxide nanoparticles on irradiated cervical cancerous cells with 6 MV photon beams". **Journal of Mazandaran University of Medical Sciences**, 2016; 26(140): 137-147.
 4. Ali ebrahiminia, Zahra Poursharif, Mohsen Asadinezhad, Abolfazl Nickfarjam, Abolghasem Haeri, Karim Khoshgard. "Determination of radionuclides level in tea samples cultivated in Guilan province, Iran". **Iranian Journal of Medical Physics**, 2015;12(4);271-277.
 5. Karim Khoshgard, Bijan Hashemi, Azim Arbabi, Mohammad Javad Rasaei, Masood Soleimani. "Radiosensitization effect of folate-conjugated gold nanoparticles on HeLa cancer cells under orthovoltage superficial radiotherapy techniques". **Physics in Medicine and Biology**, 2014; 59(9): 2249-2263.
 6. Karim Khoshgard, Seyed Ali Rahimi. "Comparison of radiation absorbed dose received by bladder and rectum between conventional and conformal treatment planning methods in radiotherapy of prostate cancer". **Journal of Medical Science**, 2014; 14(4):162-167.
 7. Karim Khoshgard, Bijan Hashemi, Azim Arbabi, Mohammad Javad Rasaei, Masood Soleimani. "The radiosensitivity effect of gold nanoparticles conjugated with folic acid in superficial radiation therapy of MCF-7 cancerous cell line". **Journal of Nuclear Sciences and Technologies**, 2013; 64:38-47 (In Persian).
 8. Karim Khoshgard, Bijan Hashemi, Azim Arbabi, Mohammad Javad Rasaei, Masood Soleimani. "Radiosensitization effect of PEGylated Gold Nanoparticles in Orthovoltage X-ray Irradiation of the MCF-7 Cancerous Cell Line". **Modares Journal of Medical Sciences: Pathobiology**, 2012; 15(3):11-22 (In Persian).
 9. Aliakbar Sharafi, Karim Khoshgard*, Alireza Nikoofar. "Measurement of the Absorbed Dose by Bladder and Rectum in the Radiation Therapy of Prostate Cancer by Thermoluminescent Dosimetry Method". **Razi Journal of Medical Sciences**, 2009; 16(64):7-12 (In Persian).

8. Conference Papers

1. Sohaila Yazdani, Karim Khoshgard, Fahimeh Rezaie. "Evaluating the application of PET/CT in management of cancers as a multi-modality molecular imaging". **3rd Molecular Medicine Congress, Isfahan, Iran, December 15-16, 2016.**
2. Fahimeh Rezaie, Karim Khoshgard, Soheyla Yazdani. "Magnetic resonance spectroscopy as a molecular imaging in diagnosis of brain's tumors". **3rd Molecular Medicine Congress, Esfahan, Iran, December 15-16, 2016.**

3. Sohaila Yazdani, Karim Khoshgard, Fahimeh Rezaie. "Magnetic nanoparticles in molecular imaging for oncology". **3rd Molecular Medicine Congress**, Isfahan, Iran, December 15-16, 2016.
4. Karim Khoshgard, Masoud Rezaei, Parvaneh Kiani. "Improving the efficiency radiation therapy in treatment of cervical cancerous cells using dextran coated iron oxide nanoparticles". **First National Seminar on Clinical Radiobiology**; Tehran, Iran, December 8, 2016.
5. Sohaila Yazdani, Karim Khoshgard, Fahimeh Rezaie. "Evaluating the effectiveness of taking Curcumin on reducing the side effects in patients with Head and Neck cancers". **First International Clinical Oncology Congress**, Tehran, Iran, November 9-11, 2016.
6. Fahimeh Rezaie, Karim Khoshgard, Abdolazim Sedighi Pashaki, Soheyla Yazdani. "Approaches to Assess Salivary Glands Tolerance Dose". **1st International Clinical Oncology Congress**, Tehran, Iran, November 9-11, 2016.
7. Sohaila Yazdani, Karim Khoshgard, Farzaneh Allaveisi. "Targeted radiotherapy of the brain tumors with Gold Nanoparticles". **1st International Clinical Oncology Congress**, Tehran, Iran, November 9-11, 2016.
8. Fahimeh Rezaie, Karim Khoshgard, Soheyla Yazdani. "Biological Imaging in Diagnosis and Treatment of Head and Neck Cancers". **1st International Clinical Oncology Congress**, Tehran, Iran, November 9-11, 2016.
9. Masoud Rezaei, Karim Khoshgard, Abbas Haghparast, Leila Hosseinzadeh, Mohammad Taghi Eyvazi. "Investigating the radiosensitivity effect of dextran coated iron oxide nanoparticles on HeLa cell line irradiated with 6 and 12 MeV electron beams". **1st International Symposium on Nanotechnology**. Esfahan, Iran, May 24-25, 2016.
10. Raziieh Parvaresh, Abbas Haghparast, Karim Khoshgard, Mahmoud Jalili. "The Assessment of Radiation Protection of Lead Partition in Nuclear Medicine". **31st Iranian Congress of Radiology**, Tehran, Iran, May 5-8, 2015.
11. Raziieh Parvaresh, Abbas Haghparast, Karim Khoshgard, Mahmoud Jalili. "Evaluation of Efficacy Level of Protective Aprons against the Tc-99m Radioactive Source in Nuclear Medicine". **11st International Congress of Medical Physics**, Tehran, Iran, November 6-7, 2014.
12. Karim Khoshgard, Bijan Hashemi, Azim Arbabi, Mohammad Javad Rasaei, Masoud Soleymani. "The Radiosensitivity Effect of Folic Acid Conjugated Gold Nanoparticles in Superficial Radiation Therapy of MCF-7 Cancer Cells". **12th World Congress on Medical Physics and Biomedical Engineering**, Beijing, China, May 2012.
13. Karim Khoshgard, Bijan Hashemi, Azim Arbabi, Mohammad Javad Rasaei, Masoud Soleymani. "Comparison of the radiosensitivity effect between folic acid and polyethylenglycol conjugated gold nanoparticles in superficial radiation therapy of MCF-7 cancer cells. **12th National Student Conference on Nanotechnology**, Tehran, Iran, May 2012.
14. Karim Khoshgard, Rohollah Ghahramane-asl, Farzaneh Allahveisi, Bahram Bolouri. "Investigating the electromagnetic fields intensity at stations of Tehran subway and comparison with international standard levels". **First National Conference on Electromagnetic Field Effects on Survived Tissues and Electric & Electronic Instrumentation (EMFE01)**, Amirkabir University of Technology, Tehran, Iran, June 2007.

9. Patents

1. "5-Amino levlenic-acid mediated photodynamic therapy for melanoma cancer in combination with 5-FU" Hadis Tahmasebi, Karim Khoshgard, Ameneh Sazgarnia, Iranian patent, 2015 Applied.

10. Books

1. A Collection of Solved Questions and Problems in Medical Physics, Karim Khoshgard, Zahra haji-Karimi, Ali Shakeri-Zadeh; **Jahad-Daneshgahi Publication Organization, Tehran, Iran, 2011** (In Persian).

11. Thesis

1. *Evaluation of dose response of radiation induced lens opacities in the radiotherapy of head and neck cancers.* Mohammad Bahrami, 2016.
2. *Investigating the natural radioactivity level of Ra-226 and K-40 radionuclides in water and soil samples of residential areas in Kermanshah province using gamma spectroscopy.* Marzban Parhoodeh, 2016.
3. *Evaluation of pulmonary function versus the lung absorbed dose in the radiotherapy of the thoracic cancers.* Maedeh Abdali, 2016.
4. *Evaluation of dose rate affect on radiosensitivity level of Dextran coated iron oxide nanoparticles in cancerous HeLa cells irradiated with 6MV photon beams.* Parvaneh Kiani, 2016.
5. *Comparison of dose calculation algorithms in the Isogray treatment planning system on the heterogeneous thorax phantom using film and ionization chamber dosimetry.* Fatemeh Kazemi, Sep 2015.
6. *Investigating the radiosensitivity of Dextran coated iron oxide nanoparticles on cancerous cervical HeLa cell line irradiated with 18MV photon beams.* Hossein Mafakheri, Aug 2015.
7. *The study of photodynamic therapy efficiency with 5-aminolevulinic acid (5-ALA) in the presence of 5-fluorouracil (5-FU) on Mel-RM melanoma cell line.* Hadis Tahmasebi, June 2015.
8. *The study of various protective aprons materials on the passing ionizing radiation dose irradiated with Tc-99m.* Razieh Parvaresh, May 2015.

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