



Babol University of Medical Sciences

Seyyed Hossein Mousavie Anijdan

Faculty : Allied Medical Sciences
Department : Radiation Technology

Personal Information

First Name : Seyyed Hossein
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Date of Birth : 24/08/1970
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Short About yourself: *Assistant Professor of Medical Physics*, Physicist of Shahid Beheshti Nuclear Medicine Department, PhD Thesis; In-vivo Study of Absorbed Dose Enhancing effect of Gold Nanoparticles in Megavoltage Irradiation on Melanoma Cells.

High School Information

Field : Mathematics & Physics **Date :** 1988

Language Information

First : Persian **Second:** English

Undergraduate and Postgraduate Courses :

#	Degree	Field	University	Country	Year
1	PhD	Medical Physics	Tehran University of Medical Sciences	Iran	2012
2	MSc	Medical Radiation Eng.	Sharif University of Technology	Iran	1996
3	BSc	Electric & Electronic Eng.	Gilan University	Iran	1993

Executive Experiences

1. **Medical Engineering Department Expert**, 1998 - 2005, Babol Univ. of Med. Sci.
2. **Nuclear Medicine Department Physicist**, 2005 - 2017 [*present*], Shahid Beheshti hospital, Babol Univ. of Med. Sci.

Research Fields

1. **Feasibility of computerized saving and displaying of heart & coronary angiography, 2002** [Medical Imaging], 2002 – 2003, Babol University of Medical Sciences , Research Affairs
2. **A survey on circumstance radiographic factors employing and comparing it with manufactures suggested rating charts in Babol, 2004** [Medical Imaging], 2003 – 2004, Babol University of Medical Sciences, Research Affairs.

Publications

Articles

1. Shabestani Monfared A, Jalali F, Ghaemian N, Moosavi SH. (2007) **Feasibility of Pc-based digital save and display system for coronary angiography in angiography department of Shahid Beheshti hospital in Babol, Iran.** J. Babol Univ. Med. Sci.; 9(1):24-27.
2. Mousavie Anijdan SH, Shirazi A, Mahdavi SR, Ezzati A, Mofid B, Khoei S, Zarrinfard MA.(2012) **Megavoltage dose enhancement of gold nanoparticles for different geometric set-ups: Measurements and Monte Carlo simulation.** Iran. J. Radiat. Res.; 10(3-4): 183-186.
3. Sayyed Hossein Mousavie Anijdan *, Seied Rabi Mahdavi, Alireza Shirazi, Mohammad Ali Zarrinfard , Jamshid Hajati(2013) **Megavoltage X-ray Dose Enhancement with Gold Nanoparticles in Tumor Bearing Mice.** Int J Mol Cell Med.; 2(7): 119-125.
- 4- Ahad Ollah Ezzati , Seyed Rabi Mahdavi , Hossein Mousavie Anijdan,(2014) **Size Effects of Gold and Iron Nanoparticles on Radiation Dose Enhancement in Brachytherapy and Teletherapy: A Monte Carlo Study.** Iranian J. Med. Physics;11(2 & 3): 253-259.
- 5- Seyed Hossein Mosavi Anijdan, Mahboubeh Khadem Abolfazli, Gholam Reza Ataei,(2015) **A review on Intensity Modulated Radiation Therapy (IMRT) in cancer treatment.** Sch. Acad. J. Biosci.; 3(6):567-575.
- 6- Khadijeh Dadkhah, Seyed Hossein Mosavi Anijdan, Masoumeh Karimi, Mahboubeh Khadem Abolfazli, Fatemeh Rezaei, Fereshteh Adel, Gholamreza Ataei,(2015) **DNA microarray, types and its application in medicine.** Sch. Acad. J. Biosci.; 3(7):598-602.
- 7- Amir Gholami, Khadijeh Dadkhah, Seyed Hossein Mosavi Anijdan*,(2015) **Nanofiber and stem cell to bone, cartilage and muscle tissue engineering.** Sch. Acad. J. Biosci.; 3(7):624-626.
- 8- S. H. Mousavi Anijdan, A. Tirgar,(2015) **Assessment of Affecting Factors on Personal Computers Power Consumption in an Academic Center in 2014: A Short Report.** J. Rafsanjan Univ. Med. Sci.; 14(6): 525-532.
- 9- M. Nooshadian, H. Taghavi, H. Alavi, N. Bishehsari, S.H. Mousavi Enijdan, A. Koomasi, A. Shabestani Monfared, (2015) **Evaluation of Filtration Rates in Radiology Devices Used in Hospitals Affiliated to Babol University of Medical Sciences, Iran.** J Babol Univ. Med. Sci.; 17(11):35-39.

10- Alireza Khorrami Moghaddam *, Amir Hakimi, Alireza Mardanshahi, Amir R. Jalilian, Hossein Amir fakhrian, and **Hossein Mousavi Anijdan**,(2015) **Compartmental Analysis to Predict the Biodistribution of [166Ho]-DOTA-Bevacizumab for Targeted Radiotherapy Purpose**. Frontiers in BIOMEDICAL TECHNOLOGIES;2(3): 118-127.

11- Saeed Shanehsazzadeh*, Cordula Grüttner, Hassan Yousefnia, Afsaneh Lahooti, Amir Gholami, Sahar Nosrati, Samaneh Zolghadri, **Sayyed Hossein Mousavie Anijdan**, et al.(2016) **Development of 177 Lu-DTPA-SPIO conjugates for Potential use as a dual contrast SPECT/MRI imaging agent**. Radiochim. Acta;104(5):337–344.

12- Amir Gholami, **Seyyed Hossein Mousavie Anijdan***, (2016) **Development of 153Sm-DTPA-SPION as a theranostic dual contrast agents in SPECT/MRI**. Iran J. Basic Med. Sci.; 19: 1056-1062.

Congress

- 1- 13th Congress of Nanotechnology Graduates, Megavoltage dose enhancement of gold nanoparticles, Measurements, S.H. Mousavie Anijdan, S.R. Mahdavi, A. Shirazi, A. Ezzati, M.A. Zarrinfard, oral presentation, Tehran University of Medical Sciences, 8-9 May 2013.
- 2- The first Congress of Nanotechnology & Sciences, Monte Carlo simulation of Megavoltage dose enhancement of gold nanoparticles for different geometric set-ups. S.H. Mousavie Anijdan, S.R. Mahdavi, A. Shirazi, A. Ezzati, M.A. Zarrinfard, oral presentation, Tarbiat Modares University, 16-17 May 2013.

Educational Interests

1. Therapeutic Oncology & Radiobiology:

-Gold Nanoparticles in Radiotherapy,

2. Radiation Biology & Health Physics:

3. Medical Imaging:

-Optimization of the patient dose and image quality,

Awards and achievements:

Sep 2008, Full Travel Support for participation in smr1961 (ICTP): Collage on Medical Physics, Trieste, Italy

Grant