

# ***CURRICULUM VITAE***



## ***Personal Background:***

Name: **Masoud Haghani**

Date of Birth : **September, 1, 1981**

Place of Birth: **Larestan, Iran**

Gender: **Male**

Marital status: **Married**

Mailing Address:

***Department of Radiology, School of Paramedical Sciences, Shiraz University of Medical Sciences, Shiraz, Iran***

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## ***Educational Records:***

**Ph.D. in Medical Radiation Engineering (2017), Mechanical Engineering School, Shiraz University, Iran**

**M.Sc. in Medical Radiation Engineering (2012), Islamic Azad University, Science and Research Branch, Tehran, Iran**

**B.Sc. in Radiology (2005) Shiraz University of Medical Sciences, Shiraz, Iran**

## ***Research interest:***

- 1) Radiation Protection and Dosimetry**
- 2) Radiobiology**
- 3) Nuclear Medicine**
- 4) Low Dose Ionizing Radiation Effects**
- 5) Non-ionizing Radiation Effects**

## ***Honor and Award:***

**Wining Simin National Award of Health Physics. (Iran.2014)**

## ***Publications and Presentations:***

**1) M. Haghani, K Haddad, SMJ. Mortazavi, R. Faghihi, A. Pirouzmand, M. Faraz, *Efficacy of Mathematical Models in Predicting the Concentration of Indoor Radon in Areas with High Levels of Natural Background Radiation, International Journal of Radiation Research (IJRR),2016 ACCEPTED***

**2) Ghahramanifar M, **Haghani M**, Ghadimi Moghadam A, Ghadimi Moghadam A. K, *A New Stethoscope Design with Unique Characteristics and Development in Medical Device, J Biomed Phys Eng, 20 December 2016***

**3) Ghadimi-Moghadam A, Mortazavi S. M. J, Hosseini-Moghadam A, **Haghani M**, Taeb S, Hosseini M. A, Rastegariyan N. Arian F, Sanipour L, Aghajari S, Mortazavi S. A. R, Soofi A, Dizavandi M. R, *Does Exposure to Static Magnetic Fields Generated by Magnetic Resonance Imaging Scanners Raise Safety Problems for Personnel? J Biomed Phys Eng, June 2016***

- 4) Ghahramanifar M, **Haghani M**, Ghadimi Moghadam A, Haghani A, Ghadimi Moghadam A. K, *A New Conveyable Device for Electrodrainage of Thorax, J Biomed Phys Eng, 7 October 2016*
- 5) Taheri M, Darabyan M, Izadbakhsh E, Nouri F, **Haghani M**, Mortazavi S.A.R, Mortazavi G, Mortazavi S. M. J, Moradi M, *Exposure to Visible Light Emitted from Smartphones and Tablets Increases the Proliferation of Staphylococcus aureus: Can this be Linked to Acne? J Biomed Phys Eng 2017; 7(2)*
- 6) Seyed Mohammad Javad Mortazavi, Samira Zarei, Mohammad Taheri, **Masood Haghani**, *Sensitivity to Antibiotics of Bacteria Exposed to Gamma Radiation Emitted from Hot Soils of the High Background Radiation Areas of Ramsar, Northern Iran, Theijoem Vol 8, Num 2; April, 2017*
- 7) Mortazavi S.M.J, Mortazavi S.A.R, **Haghani M**, *Evaluation of the Validity of a Nonlinear J-Shaped Dose-Response Relationship in Cancers Induced by Exposure to Radiofrequency Electromagnetic Fields J Biomed Phys Eng 2017 ( IN PRESS)*
- 8) Mortazavi S.M.J, Owji S.M, Shojaie-fard M.B, Ghader-Panah M, Mortazavi S.A.R, Tavakoli-Golpayegani A, **Haghani M**, Taeb S, Shokrpour N, Koochi O, *GSM 900 MHz Microwave Radiation Induced Alterations of Insulin Level and Histopathological Changes of Liver and Pancreas in Rat, J Biomed Phys Eng, December 2016*
- 9) Mortazavi S.A.R, Taeb S, Mortazavi S.M.J, Zarei S, **Haghani M**, Habibzadeh P, Shojaei-fard M. B, *The Fundamental Reasons Why Laptop Computers should not be Used on Your Lap, J Biomed Phys Eng, December 2016*
- 10) SAR Mortazavi,G Mortazavi, **M Haghani**,SMJ Mortazavi, *Oxidative Stress, a Bridge that Links Radioadaptive Responses Induced by Ionizing Radiation to Those Induced by Non Ionizing Radiation, REACTIVE OXYGEN SPECIES, VOLUME 1 ,ISSUE 3 , MAY 2016*
- 11) Mortazavi Gh., **Haghani M**, Rastegarian N, Zarei S, Mortazavi S.M.J, *Increased Release of Mercury from Dental Amalgam Fillings due to Maternal Exposure to Electromagnetic Fields as a Possible Mechanism for the High Rates of Autism in the Offspring: Introducing a Hypothesis, J Biomed Phys Eng 2016; 6(1)*
- 12) Shekoohi Shooli F, Mortazavi S.A.R, Jarideh S, Nematollahii S1Yousefi F, **Haghani M.**, Mortazavi S. M.J, Shojaei-fard M. B, *Short-Term Exposure to Electromagnetic Fields Generated by Mobile Phone Jammers Decreases the Fasting Blood Sugar in Adult Male Rats, J Biomed Phys Eng 2016; 6(1)*
- 13) Zarei SMortazavi SMJ, Mehdizadeh AR, Jalalipour M, Borzou S, Taeb S, **Haghani M**, Mortazavi SAR, Shojaeifard MB, Nematollahi S, Alighanbari N, Jarideh S, *A Challenging Issue in the Etiology of Speech Problems: The Effect of Maternal Exposure to Electromagnetic*

*Fields on Speech Problems in the Offspring, J Biomed Phys Eng · September 2015*

14) Rafati A, Rahimi S, Talebi A, Soleimani A, **Haghani M**, Mortazavi S.M.J, *Exposure to Radiofrequency Radiation Emitted from Common Mobile Phone Jammers Alters the Pattern of Muscle Contractions: an Animal Model Study, J Biomed Phys Eng 2015; 5(3)*

15) Kazemi E, Mortazavi S.M.J, Ali-Ghanbari A, Sharifzadeh S, Ranjbaran R, Mostafavi-pour Z, Zal F, **Haghani M**, *Effect of 900 MHz Electromagnetic Radiation on the Induction of ROS in Human Peripheral Blood Mononuclear Cells, J Biomed Phys Eng 2015; 5(3)*

16) S.M.J. Mortazavi, M. Foadi, H. Mozdarani, **M. Haghani**, M.A .Mosleh-Shirazi, P. Abolghasemi, S. Nematollahi, S. Sharifzadeh, *Future role of vitamin C in radiation mitigation and its possible applications in manned deep space missions: survival study and the measurement of cell viability, Int. J. Radiat. Res., Vol. 13 No. 1, January 2015*

17) Mortazavi S. M. J, Rahimi S, Mosleh-Shirazi M. A, Arjomandi M, Soleimani A, Koochi Hossein-abadi O, **Haghani M**, Alavi M, *A Comparative Study on the Life-Saving Radioprotective Effects of Vitamins A, E, C and Over-the-Counter Multivitamins, J Biomed Phys Eng 2015; 5(2)*

18) Jarideh S, Taeb S, Pishva S. **M, Haghani M**, Sina S, Mortazavi S. A. R, Hosseini M. A Nematollahi S, Shokrpour N, Hassan Shahi M, Mortazavi S. M. J, *Does Occupational Exposure of Shahid Dastghieb International Airport Workers to Radiofrequency Radiation Affect Their Short Term Memory and Reaction Time? J Biomed Phys Eng 2015; 5(3)*

19) R. Mahmoudi, S.M.J. Mortazavi, S. Safari, M. Nikseresht, H. Mozdarani, M. Jafari, A. Zamani, **M. Haghani**, M. Davari, A. Tabatabaie, A. Soleimani, *Effects of microwave electromagnetic radiations emitted from common Wi-Fi routers on rats' sperm count and motility, Int. J. Radiat. Res., Vol. 13 No. 4, October 2015*

20) M.E. Parsanezhad, S.M.J. Mortazavi, T. Doohandeh, B. Namavar Jahromi, H. Mozdaran, A. Zarei, M. Davari, S. Amjadi, A. Soleimani, **M. Haghani**, *Exposure to radiofrequency radiation emitted from mobile phone jammers adversely affects the quality of human sperm, Int. J. Radiat. Res., Vol. 15 No. 1, January 2017*

21) S.M.J.Mortazavi, **M. Haghani**, s.taeb,A.Soleimani,S.A.R. Mortazavi, *CAN TUMOR MARKERS SHED SOME LIGHT ON DARK CORNERS OF THE PUZZLING ISSUE OF CANCER INCIDENCE IN AREAS WITH ELEVATED LEVELS OF NATURAL BACKGROUND RADIATION? Conference Paper · September 2014 Hirosaki Japan*

22) S.M.J.Mortazavi,M.Taheri, **M Haghani**, *EXPOSURE TO ELEVATED LEVELS OF NATURAL RADIATION HELP BACTERIA BETTER COPE WITH THE LETHAL EFFECTS OF ANTIBIOTICS: IS THIS RADIOADAPTIVE RESPONSE DANGEROUS FOR HUMANS? Conference Paper · September 2014 Hirosaki Japan*

- 23) S.M.J.Mortazavi,T.Nejad sattari,B.Nosrati, **M.Hahjani**, *DO COMMON WHEAT (TRITICUM AESTIVUM) SEEDS EXPOSED TO ELEVATED LEVELS OF NATURAL RADIATION RELEASE STIMULATING AGENTS IN THE CULTURE MEDIUM? SIMILARITIES WITH BYSTANDER EFFECT. Conference Paper · September 2014 Hirosaki Japan*
- 24) Mortazavi S.M.J, **Hahjani. M**, Taeb. S,Arian F, *A Novel Study on the Cognitive Functions of Healthy Volunteers After a Short Term Continuous Movement Around a 1.5 T MRI Scanner. Conference Paper · September 2014, Rhodes, Greece*
- 25) SMJ Mortazavi, M Gholampour, **M Haghani**, G Mortazavi, AR Mortazavi, *Electromagnetic Radiofrequency Radiation Emitted from GSM Mobile Phones Decreases the Accuracy of Home Blood Glucose Monitors, J Biomed Phys Eng 2014; 4(2)*
- 26) Haghnegahdar A, Khosrovpanah H, Andisheh-Tadbir A, Mortazavi Gh, Saeedi Moghadam M, Mortazavi SMJ, Zamani A, **Haghani M**, Shojaei Fard M, Parsaei H, Koochi O, *Design and Fabrication of Helmholtz Coils to Study the Effects of Pulsed Electromagnetic Fields on the Healing Process in Periodontitis: Preliminary Animal Results, J Biomed Phys Eng 2014; 4(3)*
- 27) S.M.J.Mortazavi,T.Nejad sattari,B.Nosrati,**M.Hahjani**, *High Level Natural Radiation Can Induce Drought Tolerance in common Wheat (Triticum aestivum), Conference Paper, September 1 - 5, 2014, At Prague, Czech Republic*
- 28) **M. Haghani**, S.M.J.Mortazav, D. Sardari, M.A. Mosleh-Shirazi,A. Mansouri, *Assessment of the role of specific absorption rate of mobile phones on the induction of microwaveinduced survival adaptive responses after exposure to lethal doses of gamma radiation. International Journal of Radiation Research, July 2013, Volume 11, No 3*
- 29) L.A. Mehdipour,S.M.J. Mortazavi,E.B. Saion,H.Mozdarani,S.A. Aziz, H.M. Kamari, R.Faghihi,S. Mehdizadeh, M.R.Kardan,A.Mortazavi, **M. Haghani**, *Natural ventilation considerations for radon prone areas of Ramsar, International Journal of Radiation Research, January 2014. Volume 12, No 1*
- 30) Mortazavi SMJ,Mosleh-Shirazi MA, Tavassoli AR,Taheri M,Mehdizadeh AR, Namazi SAS, Jamali A, Ghalandari R, Bonyadi S,**Haghani M** ,Shafie M, *INCREASED RADIORESISTANCE TO LETHAL DOSES OF GAMMA RAYS IN MICE AND RATS AFTER EXPOSURE TO MICROWAVE RADIATION EMITTED BY A GSM MOBILE PHONE SIMULATOR. Dose-Response, 11:281–292, 2013*
- 31) S. Taeb, S.M.J. Mortazavi, A. Ghaderi,H. Mozdarani,CE de Almeida, M.R. Kardan,S.A.R. Mortazavi, A. Soleimani,I. Nikokar, **M. Haghani**, A.Soofi. *Alterations of PSA, CA15.3, CA125,*

*Cyfra21-1, CEA, CA19.9, AFP and Tag72 tumor markers in human blood serum due to long term exposure to high levels of natural background radiation in Ramsar, Iran. International Journal of Radiation Research* Volume 12, No 2, 123-128, April 2014

32) Haghani M, Mortazavi S. M. J, Faghihi R, Mehdizadeh S, Moradgholi J, Darvish L, Fathi-Pour E, Ansari L, Ghanbar-pour M. R. *Nanomaterial Containing Wall Paints Can Increase Radon Concentration in Houses Located in Radon Prone Areas. J Biomed Phys Eng* 2012; 2(4).

33) Seyed Alireza MORTAZAVI, Faroogh KHADEMI, Mohammad MOTAMEDIFAR, Masoud HAGHANI, Seyed Mohammad Javad MORTAZAVI. *Human-Induced Radioresistance as a Possible Mechanism for Producing Biological Weapons: A Feasible Bridge between Radioresistance and Resistance to Antibiotics and Genotoxic Agents. Iranian J Publ Health, Vol. 43, No.2, Feb 2014, pp. 247-248*

34) Mortazavi SAR, Shojaei-Fard MB, Haghani M, Shokrpour N, Mortazavi SMJ. *Exposure to Mobile Phone Radiation Opens New Horizons in Alzheimer's Disease Treatment. J Biomed Phys Eng* 2013

35) S.M.J.Mortazavi, M.A.Mosleh-Shirazi, A.R.Tavassoli, M.Taheri, Z.Bagheri, R.Ghalandari, S. Bonyadi, M.Shafie, **M. Haghani**. *A comparative study on the increased radioresistance to lethal doses of gamma rays after exposure to microwave radiation and oral intake of flaxseed oil. Iran.J.Radiat. Res., 2011; 9(1): 9-14*

36) Mortazavi S. M. J, Omidifar N, Faghihi R, Mehdizadeh S, Masoumi S, Hashemi S. M, Haghani M, Nowrouz-Alizadeh F, Movahhedi M. *Are Radiation Exposure Levels Used in Cardiology Dangerous?. J Biomed Phys Eng* 2012; 2(3)

37) Mortazavi S. M, Jamali F, Moradgholi J, Mehdizadeh A. R, Faghihi R, Mehdizadeh S, Haghani M, Saieedi M, Mortazavi S. A, Ghanbar-pour M. R. *Investigation of the Efficacy of Damp- Proof Montmorillonite Nanoclay for Radon Reduction Strategies in Radon Prone Areas of Ramsar. J Biomed Phys Eng* 2013; 3(1)

38) M Khademi, SAR Mortazavi, M Haghani, SMJ Mortazavi, *EHMTI-0350. Introducing a novel six-phase method for effective screening of the patients diagnosed with neurological electromagnetic hypersensitivity (EHS), Journal of Headache and Pain, 2014, 15(Suppl 1):L3*

39) Movahedi MM, Tavakkoli-Golpayegani A, Mortazavi SA, **Haghani M**, Razi Z, Shojaie-Fard MB, Zare M, Mina E, Mansourabadi L, Nazari-Jahromi, Safari A, Shokrpour N, Mortazavi SM. ***Does exposure to GSM 900 MHz mobile phone radiation affect short-term memory of elementary school students? J Pediatr Neurosci. 2014 May;9(2):121-4***

40) Seyed Ali Reza Mortazavi, Ali Tavakkoli-Golpayegani, **Masoud Haghani**, Seyed Mohammad Javad Mortazavi, ***Looking at the other side of the coin: the search for possible biopositive cognitive effects of the exposure to 900 MHz GSM mobile phone radiofrequency radiation, Journal of Environmental Health Science & Engineering 2014, 12:75***

## ***Presentations in Congress:***

### **Oral :**

1) ***Can tumor markers shed some light on dark corners of the puzzling issue of cancer incidence in areas with elevated levels of natural background radiation?*** S.M.J. Mortazavi **M.Haghani**,S.Taeb,A.Soleimani,S.A.R. Mortazavi, ***The 9th International Symposium on the Natural Radiation Environment (NRE-IX) 23rd to 26th September 2014 ,Hirosaki, Japan***

2) ***Lead-Free Radiation Shields: Should we Move to Nano-sized Structures?***SMJ Mortazavi, Faghihi R, Aghamiri M.R,Aghaz A,Tayebi M,Mehdizadeh S,Mosleh-Shirazi M.A, Moradgholi J,Baharvand H,**Haghani M**, ***International Congress of Nuclear Medicine; Shiraz Iran 06/2013***

3) ***Management of the Risks Associated with Long Term Exposure to Radiofrequency Radiations of Mobile Base Stations***,SMJ Mortazavi,Ali Tavakoli Golpayegani,Omid Jaberi, **Masoud Haghani**,Ali Soliemani,Ali Reza Mortazavi,***International Conference on Biological, Chemical and Environmental Sciences (BCES-2014),At Patong Beach, Phuket.***

4) ***Do We Need to Adopt a More Relaxed Action Level for Indoor Radon in High Background Radiation and Radon Prone Areas?***  
S.Mahmud Reza Aghamiri, SMJ Mortazavi,**Masoud Haghani**,S Taeb,F.Shekouhi.***8th International Conference on High Levels of Natural Radiation and Radon Areas held in Prague, Czech Republic, September 1 -5, 2014.***

5) ***High Level Natural Radiation Can Induce Drought Tolerance in common Wheat (*Triticum aestivum*)***.SMJ Mortazavi,S.Nejad Sattari,B.Nosrati,**M.Haghani**, ***8th International Conference on High Levels of Natural Radiation and Radon Areas held in Prague, Czech Republic, September 1 -5, 2014.***



## Poster:

1) *Does Specific Absorption Rate of GSM Mobile Phones Affect the Magnitude of Induced Radioresistance to Lethal Doses of Gamma Rays?* Mortazavi SMJ, Mosleh-Shirazi MA, **Haghani M\*** *The 1st MEFOMP International Conference of Medical Physics November 2\_4 2011, Shiraz.Iran*

2) *Exposure to elevated levels of natural radiation help bacteria better cope with the lethal effects of antibiotics: is this radioadaptive response dangerous for humans?*

S.M.J. Mortazavi, M. Taheri, **M.Haghani**, S. Tajbakhsh, S. Zarei, S. Ranjbar, F.Momeni, S. Taeb

*The 9th International Symposium on the Natural Radiation Environment (NRE-IX) 23rd to 26th September 2014 ,Hirosaki, Japan*

3) *Do common wheat (Triticum Aestivum) seeds exposed to elevated levels of natural radiation release stimulating agents in the culture medium? Similarities with bystander effect.* S.M.J. Mortazavi, T. Nejad-Sattari, B. Nosrati, **M.Haghani**, *The 9th International Symposium on the Natural Radiation Environment (NRE-IX) 23rd to 26th September 2014 ,Hirosaki, Japan*

4) *Comparison Radioactive Nanoparticles in Radioimmunotherapy with Nonuniform Distributions.* Jabal Ameli H\*, **Haghani M**, Sadeghi M. *The 1st MEFOMP International Conference of Medical Physics November 2\_4 2011, Shiraz.Iran*

5) *198 Au and Radio Active Gold Nanoparticles for Radionuclide Therapy Applications*, Hamidreza Jabalameli, Anahita Movahedi, **Masoud Haghani**, *ICNM 2013 shiraz iran.*

## Teaching Experiences:

- 1) Image Processing in Radiography
- 2) Physics of Diagnostic Radiology
- 3) Ultrasound Physics
- 4) Hospital Training in Radiography
- 5) Physics and Radiobiology of Nuclear Medicine (Nuclear Medicine Residents)

## *Positions Held:*

**2018\_Now:** Vice-Chancellery for Cultural and Student Affairs in School of Paramedical Sciences, Shiraz University of Medical Sciences, Shiraz, Iran

**2017\_Now:** Physicist in Nuclear Medicine Ward, Namazi Hospital, Shiraz,Iran

**2013\_ 2017 :** Vice Chancellor for Education of Radiology Department, School of Paramedical Sciences, Shiraz University of Medical Sciences, Shiraz, Iran

**2011\_ Now:** Member of Radiology Department, School of Paramedical Sciences, Shiraz University of Medical Sciences, Shiraz, Iran

**2013\_now:** Member of Ionizing and Non-ionizing Radiation Protection Research Center (INIRPRC) ,Shiraz University of Medical Sciences

**2006\_2008 :** Head of Medical Imaging Center In Bayram Hospital, Larestan, Iran

**2008\_2010 :** Hospital Manager In Bayram Hospital, Larestan, Iran