



## 5<sup>th</sup> International and 17<sup>th</sup> Iranian Congress of Nuclear Medicine

Presidents:

Prof. M.H. Imanieh

Prof. K. Vesal

Mahdi Haghigatafshar,MD

General Secretary

Mehrossadat Alavi,MD  
Chair, scientific committee

Mohammad Entezarmahdi,  
PhD candidate  
chair, executive committee

**With Special Thanks to:**

- Dr. Reza Faghihi
- Dr. Sedigheh Sina
- Ms Banafsheh Zeinali Rafsanjani, PhD candidate
- Dr. Hossein Sadeghpour
- Alireza Tootoonchi, the IT Coordinator
- Mrs Nazanin Kamyab, Mrs. Fatemeh Masoodi, the congress secretariat

**And Also:**

- Staff of Nuclear Medicine Department, Namazi Hospital
- Radiation Research Center of Shiraz University
- Nuclear Engineering Department of Shiraz University

And

- The Shiraz University of Medical Sciences Chancellor and vice-Chancellor
- The Shiraz School of pharmacy

## Scientific committee

Dr.Mehrossadat Alavi  
(Chair, scientific committee)

- **Clinical Nuclear medicine**

Dr.Mohsen Saghari  
Dr.Arsalan Vakili  
Dr.Mohammad Eftekhari  
Dr.S.Rasoul Zakavi  
Dr.Isa Neshandar  
Dr.Jamshid Farahati  
Dr.Hojjat Ahmadzadehfar  
Dr.Halluck.B Sayman  
Dr.Dirk Roggenbuk  
Dr.Mohsen Beheshti  
Dr.Babak Fallahi  
Dr.S.Hasan Firouzabadi  
Dr.Fereydoun Fotuhi  
Dr.Nahid Yaghoubi  
Dr.Ramin Sadeghi  
Dr.Vahid Reza Dabagh kakhaki  
Dr.Babak Shafiei

Dr.Majid Asadi  
Dr.Said Farzanehfar  
Dr.Mehrangiz Amiri  
Dr.Shahram Seifollahi  
Dr.Maryam Hamidian  
Dr.Elaheh Pirayesh  
Dr.Esmail Gharapapagh  
Dr.Asgar Khancherli  
Dr.Mojtaba Ansari

- **Radiobiology Group:**

Dr. Mohamad Javad Mortazavi  
(Head of radiobiology group)  
Dr. Ali Shabestani Monfared  
Dr. Seyed Rabie Mahdavi  
Dr. Alireza Shirazi  
Dr. Hamid Reza Khosravi  
Dr. Hossein Mozdarani  
Dr. Mehdi Sohrabi  
Mrs. Simin Mehdizadeh

- **Physics group:**

Dr. Mohammad Reza Ay  
(Head of physics group)  
Dr. Hossien Rajabi  
Dr. Reza Faghihi  
Dr. Abbas Takavar  
Dr. Pardis Ghafarian  
Dr. Peter Knoll  
Dr. Mahmood Reza Aghamiri  
Dr. Mehdi Momennezhad

- **Radiopharmacy group :**

Dr. Davood Beiki  
(Head of radiopharmacy group)  
Dr. Amir Reza Jalilian  
Dr.Soraya Shahhosseini  
Dr.Seyed Jalal Hosseinimehr  
Dr.Keyvan Sadri  
Dr.Hossein Sadeghpour  
Dr. Alireza Doroudi  
Dr. Mostafa Erfani

## 5<sup>th</sup> International and 17<sup>th</sup> Iranian Congress of Nuclear Medicine

### Zomorrod Hall

8:00 – 9:00 **Opening ceremony**

9:00 - 10:30 **Session 1**

Chairs M.Saghari/ K.Vesal /S.H. Firoozabadi

#### **CME 1: Nuclear cardiology**

9:00 - 9:25 **SPECT MPI Attenuation/scatter/ Resolution: artifacts and correction**  
Peter Knoll

9:25 - 9:40 **Prognostic implication of MPI stress SPECT**  
Babak Shafiee

9:40 - 10:00 **Prognostic predictions in patients with abnormal MPI and angiographic  
Insignificant CAD**  
Nahid Yaghoobi

10:00 - 10:20 **Comparison of non-invasive techniques for MPI**  
Shahram Seyfollahi

10:20 - 10:30 **Q&A**

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### Zomorrod Hall

10:30 - 11:00 **Break**

11:00 -12:30 Session 2

Chairs M.Eftekhari /V.Dabbagh/M.Asadi

#### **Clinical investigation and research work: Nuclear cardiology**

11:00 - 11:15 **An outline of cardiovascular molecular imaging**

Majid Asadi

11:15 - 11:30 **Assessment of diastolic left ventricular dysfunction after Dipyridamole stress on gated myocardial perfusion SPECT**

Mohammad Ali Qodsi Rad/Vahid Reza Dabbagh

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### Zomorrod Hall

- 11:30-11:40 **Comparing the diagnostic sensitivity and specificity of Tc-99m MIBI SPECT in five definite protocols for screening of CAD**  
Mahdi Haghghatafshar
- 11:40-11:50 **A New Method for rapid Labeling of MIBI with Technetium 99m.**  
Seyyed Mostafa Saadati
- 11:50-12:00 **Value of Dipyridamole- Induced Left Bundle Branch Block**  
Mortaza Bostani
- 12:00-12:15 **progress in Nuclear Medicine imaging**  
Bela Kari
- 12:30 – 13:30 **Case discussion 1: nuclear cardiology**  
Babak Fallahi
- 13:30 – 14:30 Lunch (Sponsered by Shiraz Central Hospital)

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## Zomorrod Hall

14:30-16:00 Session 3

Chairs Sh.Dabiri/H.Ahmadzadehfar/ M.Amouei

### **CME 2:Nuclear Medicine and Treatment**

14:30 – 14:50 **Radiopharmaceuticals in Iran-Current & research radiotracers-new trends**

Amirreza Jalilian

14:50 – 15:10 **An overview of theranostics**

Majid Asadi

15:10 – 15:30 **Radioguided surgery**

Elaheh Pirayesh

15:30 – 15:50 **Management of dementia by PET**

Hojjat Ahmadzadehfar

15:50 – 16:00 **Q&A**

16:00 – 16:30 **Break**

16:30 – 17:30 **Workshop 1:Quantitative MPI**

Vahidreza Dabbagh

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### Zomorrod Hall

8:15-10:30 Session 4

Chairs A.vakili/I.Neshandar/M.Beheshti /R.Sadeghi

#### **CME3: Nuclear oncology**

8:15 – 8:30 **Update on oncologic radiopharmaceuticals**

Soraya Shahhosseini

8:30 – 8:50 **Tumor marker guided PET in breast cancer recurrence**

Borzu Rashidi

8:50 – 9:10 **Neuroendocrine tumors**

Mohsen Beheshti

9:10 – 9:30 **Treatment of Neuroendocrine tumors**

Halluk B. Sayman

9:30-9:45 **Sentinel node mapping in endometrial cancer patients using cervical injection of radiotracer and blue dye: single center 4 year experience**

Ramin Sadeghi



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### Zomorrod Hall

9:45 - 10:00	<b>Predictors of bone metastasis in pre-treatment staging of asymptomatic treatment- naïve patients with prostate cancer</b> Masoud Moslehi
10:00 - 10:15	<b>Accuracy of sentinel node biopsy in staging of non-small cell lung carcinomas: systematic review and meta-analysis of the literature.</b> Susan Shafiei/Ramin Sadeghi
10:15 - 10:30	<b>Q&amp;A</b>
10:30 - 11:00	<b>Break</b>
11:00 - 12:30	Session 5
Chairs	F.Fotuhi /M.Ansari/N.Yaghoobi
<b>Clinical investigation and research Works(2):Endocrine system</b>	
11:00 - 11:15	<b>Thyroid Carcinoma in Childhood and Adolescence</b> Motahareh Motazedian/Babak Shafiei

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### Zomorrod Hall

- 11:15-11:30 **Pathological evaluation of differentiated thyroid cancer in Iranian patients with positive serum thyroglobulin and negative iodine scan**  
Ali Akbar Babaei/Mojtaba Ansari
- 11:30-11:45 **Optimal time of Methimazole discontinuation before I-131 therapy in Graves disease; A Randomized Controlled Trial.**  
Sayed Rasoul Zakavi
- 11:45-11:55 **Sentinel node mapping in thyroid cancer patients: experience on 30 patients**  
Ramin Sadeghi
- 11:55-12:05 **Prevention of Radiation Induced Nausea and Vomiting following High Dose 131-Iodine Therapy in Patients with Differentiated Thyroid Cancer; Comparison between the Efficacy of Pantoprazol, Ondansetron, and Metoclopramide**  
Marjan Mirzababae/Babak Shafiei

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### Zomorrod Hall

12:05 - 12:15 **The possibility of total automation in Radio Immunoassay(RIA)?**  
M. Moharamzadeh

12:15 - 12:30 **Q&A**

12:30 - 13:30 **Case discussion 2: nuclear oncology**  
Mohsen Beheshti

13:30 - 14:30 Lunch

14:30 - 16:00 Session 6

Chairs S.R Zakavi /J.Farahati/D.Roggenbuck

#### **CME 4: Thyroid Cancer**

14:30 - 14:50 **Screening for thyroid cancer by Ultrasound and FNAB**  
Jamshid Farahati

14:50 - 15:10 **Follow-up of Thyroid cancer**  
Sayed Rasoul Zakavi

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### Zomorrod Hall

15:10 – 15:30 **High sensitive Tg measurement in the follow-up of patients with differentiated thyroid carcinoma**

Dirk Roggenbuck

15:30 – 15:50 **PET-Scan in management of thyroid cancer**

Hojjat Ahmadzadehfar

15:50 – 16:00 **Q&A**

16:00 – 16:30 **Break**

16:30-17:30 Session 7

**Panel: The problems of radiation protection in nuclear medicine field in Iran**

**A.Shabestanimonfared, A.Mozdarani, SR. Zakavi, M.Mommenzhad, SMJ. Mortazavi, HR Khosravi, Dr. Aghamiri**

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Zomorrod Hall

8:15-10:00 Session 8

Chairs H.Sayman/K.Aryana /B.Fallahi

### CME 5: Infection & Inflammatory Disorders

8:15 – 8:45 **The role of Nuclear medicine in lymphedema**

Ramin Sadeghi

8:45 – 9:05 **FDG PET–CT imaging in infection and inflammation**

Halluk B. sayman

9:05 – 9:20 **Diagnostic value of 99mTc- labeled-Ubiquicidin 29-41**

**Scan in differentiation of osteomyelitis from bone tumors**

Kamran Aryana

9:20-9:30 **Sentinel node mapping in Marjolin’s ulcer: A feasibility study**

Ramin Sadeghi

9:30-9:40 **Molecular imaging of protein-protein interactions in living cells**

M.Seyedabadi/M.Asadi

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### Zomorrod Hall

9:40-9:50 **Cherenkov Molecular Imaging: review article**

Ali Mahmoud Pashazadeh

9:50 – 10:00 **Q&A**

10:00 – 10:30 **Break**

10:30-12:00 **Session 9**

Chairs S.R.Zakavi, M.Reza Ay, D.Beiki

#### **Joint session (Physics ,radiopharmacy & clinical nuclear medicine)**

10:30 – 10:50 **What the clinician expected from physicist and radiopharmacist?**

Sayed Rasoul Zakavi

10:50 – 11:05 **The role of radiopharmacist in molecular imaging wards**

Davood Beiki

11:05 – 11:25 **The role of physicist in molecular imaging wards**

Mohammad Reza Ay

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### Zomorrod Hall

11:25 – 11:50 **Challenges and Pitfalls in Lunching the first Medical Cyclotron in Iran**  
Pardis Ghafarian

11:50 – 12:00 **Q&A**

12:00 – 13:30 **Ending Ceremony & Awards**

13:30 – 14:30 **Lunch**

## 5<sup>th</sup> International and 17<sup>th</sup> Iranian Congress of Nuclear Medicine

### Yaghoot Hall

8:00 – 9:00 **Opening ceremony(In Zomorrod Hall)**

9:00-10:30 Session 1

Chairs M. Hamidian - S. Shahhoseini

9:00 – 9:30 **PET-CT :Instrument & techniques**

P. Ghafarian

9:30 - 9:50 **PET radiopharmaceuticals**

S. Shahhoseini

9:50 – 10:20 **Cardiac PET imaging**

M. Hamidian

10:20 – 10:30 **Q&A**

10:30-11:00 **Break**



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### Yaghoot Hall

11:00-12:30 Session 2

Chairs M. Amiri - M. J. Mortazavi

11:00 – 11:20 **Octreotid scan**

M. Amiri

11:20-11:50 **Radiation hormesis and radioadaptive response**

SM. J. Mortazavi

11:50-12:20 **Application of PET in oncologic imaging**

S. Farzanefer

12:20 – 12:30 **Q&A**

13:30 – 14:30 **Lunch**

14:30-16:00 Session 3

Chairs M. Momennezhad - A.R. Jalilian

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### Yaghoot Hall

- 14:30 – 15:00 **Management of radioactive contamination in nuclear medicine departments**  
M. Momennezhad
- 15:00 – 15:30 **Non technetium SPECT radiopharmaceuticals**  
A.R. Jalilian
- 15:30 – 15:50 **Bone Densitometry**  
M. Amiri
- 15:50 – 16:00 **Q&A**

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## Yaghoot Hall

8:30-10:30	Session 4
Chairs	A. Shabestani Monfared - D. Beiki
8:30 – 8:50	<b>Radiation protection regulation in nuclear medicine departments: past, present, future</b> A. Shabestani Monfared
8:50 – 9:20	<b>Generator based radiopharmaceuticals (Non Tc- 99m)</b> D. Beiki
9:20 – 9:50	<b>MIBG scan</b> E. Gharepapagh
9:50-10:10	<b>Parathyroid Scan</b> A. Khancherly
10:10 – 10:30	<b>Q&amp;A</b>

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### Yaghoot Hall

10:30 – 11:00 Break

11:00-12:30 Session 5

Chairs H. Khosravi - S. Farzanehfar

11:00 – 11:20 **Tc99m radiopharmaceuticals quality control tests**

H. Sadeghpour

11:20 – 11:40 **Nuclear medicine (technologist / patients) and pregnancy**

H.R. Khosravi

11:40 – 12:00 **Using Ga 67 in tumor imaging**

S. Farzanefar

12:00 – 12:20 **The NM technologist professional care and communicate relationship with patient**

M. Hamidian

12:20 – 12:30 **Q&A**

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Yaghoot Hall

13:30 – 14:30 Lunch

14:30-15:30 Session 6

Chairs M.A. Mosleh – S. M. Entezarmahdi

## **Workshop including hospital visit (part I) :**

14:30 – 15:00 **Radiation measurement instruments**

M.A. Mosleh

15:00 – 15:30 **Computer in Nuclear Medicine**

S. M. Entezarmahdi

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### Yaghoot Hall

8:30-10:00 Session 7

#### **Workshop including hospital visit (part II) :**

8:30-9:15 **Computer in Nuclear Medicine**

S. M. Entezarmahdi

9:15-10:00 **Radiation measurement instruments**

M.A. Mosleh

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## Berelian Hall

8:00 – 9:00	Opening ceremony (In Zommod Hall)
9:00-10:30	Session 1
Chairs	Dr. Monfared- Dr. Mortazavi- Dr. Mozdarani- Dr. Khosravi
<b>Radiobiology, Dosimetry and Radiation Protection</b>	
9:00-9:20	<b>Radio-protective roles of antioxidant agents</b> A. Shirazi
9:20-9:40	<b>Lead-Free Radiation Shields: Should we Move to Nano-sized Structures</b> S.M.J. Mortazavi
9:40-9:50	<b>Fetal and Maternal Dose Assessment for Thyroid Imaging and Therapy in early pregnancy</b> E. Hoseinian Azghadi

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### Berelian Hall

- 9:50-10:00 **Investigation of implementation of health physics protocols and radiation protection standards in nuclear medicine sections of Shiraz hospitals**  
M. Zehtabian
- 10:00-10:10 **Dose calculation radiopharmaceutical  $^{153}\text{Sm}$ -EDTMP for therapy of bone metastases**  
F. Razghandi
- 10:10-10:20 **Patient and Staff Dose Optimization in Nuclear Medicine Diagnosis Methods**  
S. Abedi
- 10:20-10:30 **Radioprotective effects of famotidine and vitamin C against radiation induced micronuclei in mice bone marrow in vivo**  
M.Zangeneh
- 10:30-11:00 **Break**



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## Berelian Hall

11:00-13:30 Session 2  
 Chairs Dr. Rajabi, Dr. Ay, Dr. Knoll

### Physics, Instrumentation and Software

11:00-11:20 **Responsibilities of a physicist in a NM/PET department: a personal point of view**  
 Peter Knoll

11:20-11:40 **Molecular Imaging Instrumentation**  
 Mohammad Reza Ay

11:40-11:50 **Optical Photon Transport in 2D Arrays of Scintillation Detectors: Development of a New Monte Carlo Model**  
 MA. Mosleh Shirazi

11:50-12:00 **Investigation of Accuracy of Dynamic Myocardial Perfusion 201-Thallium SPECT in comparison of Static Imaging**  
 Z. Shahpouri

12:00-12:10 **The Influence of Misregistration on Quantitative Accuracy of Attenuation Corrected SPECT Images**  
 H.Babaeifar

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### Berelian Hall

- 12:10-12:20 **Spatial Resolution and System Sensitivity in a Tilted-Head Planar-SPECT: a Monte Carlo Study**  
H. Mahani
- 12:20-12:30 **The Effect of Shape, Size and Arrangement of PMT's on the Intrinsic Spatial Resolution of Anger Camera**  
R. Haghshenas
- 12:30-12:40 **Validation of GATE Monte Carlo Code for Internal Dosimetry (Phantom Study)**  
M.Mommenzhad
- 12:40-12:50 **Quantification of CT and PET Images Mismatch Effect due to Respiratory Motion in Lung Tumors Uptake Value.**  
H.Soufi

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### Berelian Hall

- 12:50-13:00 **Performance evaluation of HiReSPECT a dedicated animal SPECT system using modified NEMA standards**  
V.Moji
- 13:00-13:10 **Implementation of Parallel Computing Platform for Monte Carlo Simulation in Nuclear Medicine Discipline**  
Sh. Nasserri
- 13:10-13:20 **A new energy mapping algorithm based on spectral CT images: application in PET/CT attenuation correction**  
H. Ghadiri
- 13:20-13:30 **Results of the measurement of the Collimator Hole Angulation for different collimators of SPECT with Adaptive Quality Control Phantom**  
H.Zamani Zeinali
- 13:30 – 14:30 **Lunch**

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### Berelian Hall

14:30-16:00    Session 3  
Chairs            Dr. Beiki, Dr. Erfani, Dr. Shahhosseini

#### **Radiopharmacy**

14:30-14:50    **Radiopharmaceuticals in Pregnant and Lactating Women**  
Davood Beiki

14:50-15:00    **Radiolabeling and Evaluation of PAMAM Dendrimer Coated Superparamagnetic Iron Oxide Nanoparticles**  
N.Gholipour

15:00-15:10    **Imaging Tumor Induced Apoptosis Using <sup>99m</sup>Tc-Annexin V In Experimental Animals**  
S.Rajabifar

15:10-15:20    **Skeletal Uptake and Urinary Excretion Evaluation of <sup>153</sup>Sm-EDTMP as a Bone Pain Palliative Radiopharmaceutical Based on Animal Studies**  
M. Meftahi

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### Berelian Hall

- 15:20-15:30 **Feasibility Study of Radium-223 Production in Tehran Research Reactor for Treatment of Bone Metastases**  
R. Bagheri
- 15:30-15:40 **Preparation And Evaluation Of <sup>177</sup>Lu Complex Of Zoledronic Acid For using In Nuclear Medicine**  
Mirsaeed Nikzad
- 15:40-15:50 **Biological Evaluation of a New Derivative of Substance P Labeled with Thechnetium-99m for Tumor Imaging**  
S. Mozaffari
- 15:50-16:00 **Evaluation of <sup>99m</sup>Tc-Ofloxacin Imaging efficacy in Escherichia Coli Induced mice muscle Infection**  
A. Andishmand
- 16:00-16:30 **Break**

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### Berelian Hall

16:30-17:30 Session 4  
Chairs Dr. Jalilian, Dr. Erfani, Dr. Sadeghpour

#### Radiopharmacy

16:30-16:50 **Progress in Peptide Based Radiopharmaceuticals**

Mostafa Erfani

16:50-17:00 **Preparation and Quality Control of <sup>99m</sup>Tc-TRODAT-1 as a Dopamine  
Transporter Imaging Agents**

M. Erfani

17:00-17:10 **Development and evaluation of a holmium-166 labelled porphyrin complex  
as a possible therapeutic agent**

N. Vahidfar

17:10-17:20 **New Neurotensin Analog Labeled with <sup>99m</sup>Tc for Targeted Tumors Imaging**

N. Zarrabi Ahrabi

17:20-17:30 **Quality Control of Radiopharmaceuticals in Shiraz Namazi Hospital**

H. Sadeghpour

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## Berelian Hall

8:30-10:30    Session 5  
 Chairs        Dr. Sadri, Dr. Shahhosseini, Dr. Hosseinimehr

### **Radiopharmacy**

8:30-8:40    **Formulation and characterization of PEG-Nano Liposomes labeled with <sup>99m</sup>Tc-HMPAO, for scintigraphic Imaging of Blood Pool in animal mode**  
 K.Sadri

8:40-8:50    **Production and quality control of <sup>177</sup>Lu -DOTA -Avastin for Radioimmuno diagnostic and Radioimmunotherapeutic Applications**  
 K. Yavari

8:50-9:00    **<sup>131</sup>I-bevacizumab as a target molecule for vascular endothelial growth factor in tumors**  
 S.J. Hoseinimehr

9:00-9:10    **Production and quality control of <sup>166</sup>HO poly (L-lactic acid) microspheres for Radiosynovectomy**  
 K. Yavari

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### Berelian Hall

- 9:10-9:20      **comparison of  $^{99m}\text{Tc}$ -chitosan nanoparticle with  $^{99m}\text{Tc}$ -Sulfur colloid and  $^{99m}\text{Tc}$ -phytate: Biodistribution and nuclear imaging**  
S. salehi zahabi
- 9:20-9:30      **The Role of Rhenium Radiopharmaceuticals In Nuclear Medicine**  
B. Aziz Kalantari
- 9:30-9:40      **Guidance on Facility Design, Production and Quality control of [ $^{18}\text{F}$ ] Fluorodeoxy Glucose (FDG)**  
M. Akhlaghi
- 9:40-9:50      **Radionuclide Purity Assessment of  $^{90}\text{Y}$  Glass Microsphere Using Gamma-ray Spectrometry**  
H. Poorbaygi
- 9:50-10:00     **Evaluation of a New Bombesin Analogue Labeled with  $^{99m}\text{Tc}$  as potential targeted tumor Scintigraphic agent**  
N. Sadeghzadeh



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## Berelian Hall

10:00-10:10	<b>Determination of human absorbed dose of 153Sm-TPTTC based on distribution data in rats</b> A. Hakimi
10:10-10:20	<b>Tc-99m Raliolabeling of Doxorubicin Loaded Denderimer Coated Super paramagnetic Iron Oxide Nanoparticles</b> N.Gholipour
10:20-10:30	<b>Determination of binding parameters of 3H-Flumazenil to rat cortical membrane receptors using filtration and centrifugation methods to separate bound from unbound.</b> F. Ahmadi
10:30 – 11:00	<b>Break</b>
11:00-13:30	Session 6
Chairs	Dr.Monfared- Dr. Shirazi- Mrs. Mehdizadeh- Dr. Aghamiri

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### Berelian Hall

#### Radiobiology, Dosimetry and Radiation Protection

- 11:00-11:20 **Radiobiological Concerns for Low Dose Occupational Exposure**  
Hossein Mozdarani
- 11:20-11:35 **The Role of Automation in Accurate Calibration of Radiopharmaceuticals for Diagnostic Nuclear Medicine**  
S. Mehdizadeh
- 11:35-11:50 **How Risk Estimation Can Be Replaced by Benefit Estimation?  
(A More Positive Approach to Radiation Protection in Nuclear Medicine)**  
Ali Shabestani Monfared
- 11:50-12:00 **Patient Specific Dosimetry by Dose Point Kernel of Radionuclides Used in Nuclear Medicine with GATE**  
A. Parach

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## Berelian Hall

- 12:00-12:10 **Occupational Radiation Exposure, DNA Damage and Genetic Polymorphisms in DNA Repair Genes**  
F. Zakeri
- 12:10-12:20 **Effective Dose Calculation around Fukushima Dai-ichi Nuclear Power Plant from Contaminated Soil**  
M. Kiani-Nasab
- 12:20-12:30 **Radioactive waste handling and disposal at nuclear medicine departments in Shiraz, Iran**  
A. Banani
- 12:30-12:40 **Equivalent dose to staffs in different procedures of Nuclear Medicine**  
M.S. Shobeiri
- 12:40-12:50 **Continuous monitoring and control of ionizing air system in nuclear medicine, radiotherapy and radiology departments**  
I. shiri

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### Berelian Hall

- 12:50-13:00 **Calculation of Container Thickness and Depth Contaminations of Gamma Emitters in Shieldings at Nuclear Medicine Centers with Two Detectors**  
E. Saniei
- 13:00-13:10 **Internal Dosimetry in Nuclear Medicine Using Gate and XCAT Phantom: a Simulation Study**  
M. Fallahpoor
- 13:10-13:20 **Statistical Analyses of surface contamination of recursive Thallium and Gallium lead shielding from country's nuclear medicine centers**  
A. Bahrami
- 13:20-13:30 **Evaluation of the sensitivity of a dose calibrator to pure beta radiation**  
H. Poorbaygi
- 13:30 – 14:30 **Lunch**

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## Berelian Hall

14:30-16:00	Session 7
Chairs	Dr. Rajabi, Dr. Faghihi, Dr. Knoll
<b>Physics, Instrumentation and Software</b>	
14:30-14:50	<b>Dosimetry in therapeutic application of radioisotopes</b> Hosein Rajabi
14:50-15:10	<b>Quality control of SPECT gamma cameras</b> Peter Knoll
15:10-15:20	<b>Monte Carlo Study of Radiation Scattering and Its Impact on Nuclear Medicine Image Quality in Planar Imaging with Multislice FanBeam Collimator</b> HR. Baghani
15:20-15:30	<b>Evaluating of Neurogam software accuracy in semi quantitative analysis of brain SPECT images</b> M. Rezaeian
15:30-15:40	<b>Feasibility Study of Myocardial Perfusion Imaging with Fan-Beam in Comparison of Parallel-Hole Collimator</b> A. Mehravar

## 5<sup>th</sup> International and 17<sup>th</sup> Iranian Congress of Nuclear Medicine

### Berelian Hall

15:40-15:50 **Designing and devising superficial contamination recognition monitor in nuclear medicine centres**

M. Poshtkouhyan Bavi

15:50-16:00 **Do Different Filtration Methods Affect Calculated Volume and Ejection Fraction Value by the QBS?**

S. Mohseni



شرکت کیمیا پخش سبز



Radiation Research Center  
Shiraz University



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