

Dedicated to the 80th anniversary of the Academy of Sciences of Uzbekistan

NUCLEAR MEDICINE

INTERNATIONAL CONFERENCE

Bukhara, Uzbekistan

October 3-5, 2023

PROGRAM

CONFERENCE ORGANIZERS:

**Academy of Sciences of the Republic of Uzbekistan
Ministry of Health of the Republic of Uzbekistan
Institute of Nuclear Physics of Uzbekistan Academy of Sciences
Bukhara State University
Bukhara State Medical Institute**



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Academy of Sciences of Uzbekistan

NUCLEAR MEDICINE

INTERNATIONAL CONFERENCE

PROGRAM

Tashkent – Bukhara - October 3-5, 2023

INTERNATIONAL ORGANIZING COMMITTEE

Chairman: Bekhzod Yuldashev
Co-Chairman: Amrillo Inoyatov
Co-Chairman: Andrey Kaprin
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Aripova T.	Ismailov U.	Mirzaev S.	Tashmetov M.
Bakhramov S.	Ismailov Z.	Nazirov F.	Turaev F.
Bugay A.N.	Ivanov S.	Polatova Dj.	Zaretidinov D.
Coleman N.	Kadyrzhanov K.	Salikhbaev U.	Zyuzin A.
Daminov B.	Kiyavitskaya A.	Sobirov U.	
Ibragimov B.	Koll A.	Shamshiev U.	

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Akramov V.	Dzhuraev Kh.	Rashidov U.
Ashurov J.	Fayziev Sh.	Sultonova L.
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Badritdinova M.	Mamedov U.	Khallokov F.K.
Bozorov E.	Nigmatullaeva M.	Davlatov S.
Daminov M.	Nurillaev F.	

SECRETARIAT OF CONFERENCE:

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VALIEVA Leyla, valieva@inp.uz; tel: (+99897)766-07-47

CONTACT INFORMATION OF THE LOCAL ORGANIZING COMMITTEE

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THE INTERNATIONAL CONFERENCE

NUCLEAR MEDICINE

is sponsored by the following organizations:



*Diagnostic center NEW LIFE MEDICAL,
Tashkent, Uzbekistan*



*“RADIOPREPARAT” Enterprise, Tashkent,
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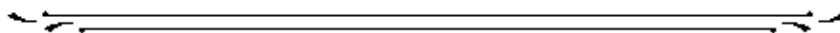


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*The organizers of the conference thank the sponsors of
conference and authors of reports and all participants for their
contribution to success of the conference*



SCHEDULE OF THE CONFERENCE

October 1-2, Sunday - Monday		<i>Arrival of participants</i>
October 2,	18:00 – 20:00	<i>Registration, “Sahid Zarafshon” hotel entrance hall</i>
Monday		
October 3,	8:00 -9:00	<i>Registration, “Sahid Zarafshon” hotel entrance hall</i>
Tuesday	9:00 -9:30	<i>Opening of a Conference, hotel “Sahid Zarafshon”</i>
	9:30-11:00	Plenary session-1
	11:00 – 11:30	<i>Coffee-Break</i>
	11:30 – 13:00	Plenary session-1
	13:00-14:30	<i>Lunch</i>
	14:30- 16:10	Parallel Sessions
	16:10 – 16:30	<i>Coffee-Break</i>
	16:30- 18:00	Parallel Sessions
	19:00 - 21:00	<i>Reception on behalf of Organizing Committee, Hotel “Sahid Zarafshon”</i>
October 4,	9:00 - 11:00	Plenary session -2, hotel “Sahid Zarafshon”
Wednesday	11:00 – 11:30	<i>Coffee-Break</i>
	11:30 – 13:00	Plenary session-2
	13:00-14:30	<i>Lunch</i>
	14:30 - 16:10	Parallel Sessions
	16:10 – 16:30	<i>Coffee-Break</i>
	16:30- 18:00	Parallel Sessions
October 5,	9:00 - 11:00	Plenary session -3, Bukhara State Medical Institute
Thursday	11:00 – 11:30	<i>Coffee-Break</i>
	11:30 - 13:00	Plenary session -3
	13:00	<i>Closing of a Conference</i>
	14:00	<i>Lunch</i>
	15:00	<i>Sightseeing tour of Bukhara</i>

THE INTERNATIONAL CONFERENCE

NUCLEAR MEDICINE

Bukhara, Uzbekistan, 3-5 October 2021

CONFERENCE PROGRAM

3 October, Tuesday

9:00 – 13:00

PLENARY SESSION I

Conference Hall, “Sahid Zarafshon” hotel

CHAIRMEN: *Yuldashev B.S., Kaprin A.D.*

9.00-9.30

Opening of the Conference

Welcome speech:

Zaripov B.K.

Khokim of the Bukhara region of the Republic of Uzbekistan

Inoyatov A.Sh.

Minister of Health of the Republic of Uzbekistan

9.30 -10.00

**1. PRODUCTION OF RADIOPHARMACEUTICALS
IN UZBEKISTAN**

**Yuldashev B.S., Sadikov I.I., Abdukayumov A.M.,
Tashmetov M.Yu.**

President of Uzbekistan Academy of Sciences

10.00 -10.30

**2. NUCLEAR MEDICINE TECHNOLOGIES IN
HEALTH CARE**

Kaprin A.D.

*Federal State Budgetary Institution National Medical
Research Radiological Centre of the Ministry of Health
of Russian Federation, Moscow*

4 October, Thursday

9:00 – 13:00

PLENARY SESSION II

Conference Hall, “Sahid Zarafshon” hotel

CHAIRMEN: Maksudov M., Kucuk N.O.

9.00-9.30

7. NEW APPROACHES TO INCREASE THE EFFICIENCY OF RADIOTHERAPY: MATHEMATICAL MODELS AND RADIOBIOLOGICAL EXPERIMENTS

Bugay A.N.

Laboratory of Radiation Biology, Joint Institute for Nuclear Research, Dubna, Russia

9.30 -10.00

8. 20 YEARS OF EXPERIENCE IN RADIOIODTHERAPY OF THYROTOXICOSIS. WHEN, HOW, TO WHOM

Garbuzov P.I.

A. Tsyb Medical Radiological Research Centre – Branch of the National Medical Research Radiological Centre, Ministry of Health of the Russian Federation, Obninsk, Russia

10.00 -10.30

9. NUCLEAR MEDICINE TECHNOLOGY DEVELOPMENT AT THE NATIONAL RESEARCH CENTER «KURCHATOV INSTITUTE»

Sergunova K.A.

National Research Centre “Kurchatov Institute”, Moscow, Russia

10.30 -11.00

10. NEW RADIOPHARMACY CENTER IN UZBEKISTAN

Yuldashev O.B.¹, Khujaev S.², Sadikov I.I.², Tashmetov M.Yu.²

¹*Gamma Systematics Ltd., Tashkent, Uzbekistan*

²*Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent*

11:00 – 11:30 COFFEE-BREAK

CHAIRMEN: *Rizayev J.A., Czajka P.*

11.30 -12.00 **11. THE ROLE OF PET/CT IN MULTIMODAL
DIAGNOSIS OF LUNG CANCER**

Nikolaev A.E.

*Federal Network of Oncoradiological Centers
“PET-Technology”, Moscow, Russia*

12.00-12.30 **12. STATUS OF PROMETHEUS PROTON THERAPY
COMPLEX**

Saburov V.O., Koryakin S.N., Gulidov I.A.,

Soloviev A.N., Shegay P.V., Ivanov S.A., Kaprin A.D.

*A.F. Tsyba Medical Radiological Research Center is a
branch of the FSBI “NMIC of Radiology” of the Ministry
of Health of Russia*

12.30 -13.00 **13. POSITRON EMISSION TOMOGRAPHY IN
RADIOTHERAPY PLANNING. VIEW OF THE
RADIOTHERAPIST**

Volkova D.M.

Medical Center, K31 clinic, Moscow, Russia

13:00-14:30

LUNCH

14:30-18:00

Parallel Sessions

5 October, Thursday

9:00 – 13:00

PLENARY SESSION III

Conference Hall, Bukhara State Medical Institute

CHAIRMEN: *Ivanov S.A., Khodjibekov M.Kh.*

9.00-9.30

14. BUKHARA STATE MEDICAL INSTITUTE

Teshayev Sh.J.

Bukhara State Medical Institute, Uzbekistan

9.30 -10.00

**15. PROSPECTS FOR THE DEVELOPMENT OF
NUCLEAR MEDICINE IN THE REPUBLIC OF
UZBEKISTAN. TECHNICAL CAPABILITIES AND
STAFF TRAINING AT SAMSMU**

Rizayev J.A., Krylov V.V., Khamidov O.A.

*Samarkand State Medical University, Samarkand,
Uzbekistan*

10.00 -10.30

**16. TRANSARTERIAL RADIOEMBOLIZATION –
CLINICAL SCOPE AND PROPOSED
IMPLEMENTATION RESULTS IN UZBEKISTAN**

**Lyadov K., Khoronenko N., Kopachev Ju.,
Polushkin V.**

*Moscow Center of Rehabilitation Treatment,
MedInvestGroup, Moscow, Russia*

10.30 -11.00

**17. FRUITFUL PARTNERSHIP BETWEEN THE INP
OF THE ACADEMY OF SCIENCES OF
UZBEKISTAN AND THE IBP OF RUSSIA IN THE
FIELD OF NUCLEAR MEDICINE**

Kodina G.E.

*State Research Center – Burnasyan Federal Medical
Biophysical Center of Federal Medical Biological
Agency, Moscow, Russia, DIAMED Ltd, Moscow, Russia*

11:00 – 11:30

COFFEE-BREAK

3 October, Tuesday

PARALLEL SESSION PROGRAM

SECTION I

THE USE OF NUCLEAR METHODS IN DISEASE DIAGNOSES

14:30-18:10

SESSION I

CHAIRMEN: *Shirkov G., Polvonov S.R.*

- 14.30-14.50** **1. POSSIBILITIES OF NUCLEAR RADIOLOGIC STUDIES IN THE COMPLEX DIAGNOSIS OF HEPATOCELLULAR CANCER**
Inoyatova F.I.¹, Yusupalieva G.A.²
¹Republican Specialized Scientific and Practical Medical Center of Oncology and Radiology, Tashkent, Uzbekistan
²Tashkent Pediatric Medical Institute, Uzbekistan
- 14.50-15.10** **2. SPECTRAL X-RAY IMAGING DETECTORS BASED ON DIRECT CONVERSION HR GAAs:CR PIXEL SENSORS**
Chsherbakov I., Shaimerdenova L., Skakunov M., Tolbanov O., Tyazhev A., Zarubin A., Vinnik A.
Tomsk State University, R&D Center «Advanced Microelectronic Technologies», Tomsk, Russia
- 15.10-15.30** **3. THE ROLE OF MICROELEMENTS IN MULTIFOCAL ATHEROSCLEROSIS**
Danilova E.A.¹, Osinskaya N.S.¹, Kurbanov B.I.¹, **Khusniddinova S.Kh.¹, Khudoynazarov S.K.²,
¹Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent
*²Republican Pathological Anatomical Center, Ministry of Health of the Republic of Uzbekistan, Tashkent***

15.30-15.50 **4. SURFACE MODIFICATION OF CARBON NANOTUBES FOR BIOMEDICAL APPLICATIONS**

Khaydarov R.R.¹, Gapurova O.U.¹, Praveen T.K.²

¹*Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent*

²*Department of Pharmacology, JSS College of Pharmacy (JSS Academy of Higher Education & Research), Tamil Nadu, India*

15.50-16.10 **5. NUCLEAR-PHYSICAL METHOD FOR THE EARLY DIAGNOSIS AND PREVENTION OF THYROID DISEASES IN CHILDREN**

Kurbanov B.I.¹, Danilova E.A.¹, Saidova Yu.T.², Kurbanova N.B.³

¹*Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent*

²*LLC “Combine of Functional Products”, Tashkent*

³*Tashkent Institute of Chemical Technology, Tashkent*

STUDY OF POISONING OF THE ORGANISM WITH FOOD DYES THROUGH MICROELEMENT MONITOR

Kurbanov B.I.¹, Ilyasov A.S.², Ergashev A.R.²

¹*Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent*

²*Bukhara State Medical Institute, Bukhara, Uzbekistan*

16.10-16.30

COFFEE-BREAK

CHAIRMEN: *Sigov M.A., Inoyatov A.*

16.30-16.50

6. DIAGNOSING CHEST PATHOLOGY WITH ULTRA-LOW-DOSE COMPUTED TOMOGRAPHY, DOSE EQUIVALENT TO CHEST X-RAY RADIOGRAPHY

Urushadze O., Nemsadze Gr., Tortladze I., Apkhazava Gi., Nemsadze Gi.

Tbilisi State Medical University, Tbilisi, Georgia

- 16.50-17.10** **7. BINDING OF COPPER AND YTTRIUM CATIONS BY ACETATE AND PICOLINATE LIGANDS**
**Ikonnikova I.S.¹, Schukina A.A.², Pashanova A.V.²,
Zamurueva L.S.¹**
¹Lomonosov Moscow State University, Moscow, Russia
²A.N.Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, Russia
- 17.10-17.30** **8. SYNCHROTRON RADIATION APPLICATIONS TOWARDS CLINICAL RADIOTHERAPY, RADIOGRAPHY AND BIOMEDICAL RESEARCH**
Artikova S.T.¹, Polvonov S.R.², Pulatov T.R.¹
¹Turin Polytechnic University in Tashkent, Uzbekistan
²National University of Uzbekistan named after Mirzo Ulugbek, Tashkent
- 17.30-17.50** **9. EXPERIENCE OF MAMMOGRAPHIC SCREENING ORGANIZATION IN THE REPUBLIC OF UZBEKISTAN: FIRST RESULTS AND PROSPECTS**
**Tillyashaykhov M.N.¹, Alimkhodjaeva L.T.¹,
Ososkov A.V.¹, Seytmuratova A.T.¹, Ziyaev I.F.¹,
Saidov G.N.², Shirinov M.M.²**
¹Republican Specialized Scientific-Practical Medical Center of Oncology and Radiology, Tashkent, Uzbekistan
²Bukhara branch of Republican Specialized Scientific-Practical Medical Center of Oncology and Radiology, Bukhara, Uzbekistan

19:00 - 21:00

RECEPTION
*on behalf of Organizing Committee,
Hotel "Sahid Zarafshon"*

4 October, Wednesday

PARALLEL SESSION PROGRAM

SECTION I

THE USE OF NUCLEAR METHODS IN DISEASE DIAGNOSES

14:30-18:00

SESSION II

CHAIRMEN: *Tyazhev A., Abdullaeva G.A.*

14.30-14.50 **11. SPECTROSCOPY OF AUGER EMITTERS FOR TARGET THERAPY ON AN ELECTROSTATIC BETA-SPECTROMETER ESA-50**

Inoyatov A.

Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent

Joint Institute for Nuclear Research, Dubna, Russia

14.50-15.05 **12. PRODUCTION AND QUALITY CONTROL OF [¹⁸F]FLUORO-DEOXY GLUCOSE FOR POSITRON EMISSION TOMOGRAPHY**

Samadov M.Kh.¹, Polvonov S.R.², Egamova F.E.², Arslanova Sh.³

¹*Clinical health named after M.M. Fedorovich, Tashkent*

²*National University of Uzbekistan, Tashkent*

³*Tashkent city branch of the Republican Specialized Scientific and Practical Center of Oncology and Radiology, Tashkent*

15.05-15.25 **13. CHOICE OF PSMA LIGANDS IN PRE-THERAPY DIAGNOSIS**

**Sigov M.A.¹, Davydov G.A.¹, Spichenkova O.N.¹,
Sidorenko E.A.¹, Krylov V.V.¹, Kochetova T.Yu.¹,
Leontiev A.V.²**

*¹A.Tsyb Medical Radiological Research Center - branch
of the National Medical Research Radiological Centre,
Ministry of Health of the Russian Federation, Obninsk*

*²P.Hertsen Moscow Oncology Research Institute -
branch of the National Medical Research Radiological
Centre, Ministry of Health of the Russian Federation,
Moscow*

15.25-15.40 **14. BUILDING POTENTIAL EXPERTISE IN THE
PROCESS OF ESTABLISHING A NUCLEAR
MEDICINE DEPARTMENT IN THE NEW CENTRE
OF THE REPUBLICAN SPECIALISED SCIENTIFIC
AND PRACTICAL MEDICAL CENTRE FOR
ONCOLOGY AND RADIOLOGY**

**Tillyashayhov M.N., Ibragimov Sh.N.,
Egamberdiev D.M., Yarmatov M.B.**

*Republican Specialized Scientific and Practical Medical
Center of Oncology and Radiology, Tashkent,
Uzbekistan*

15.40-15.55 **15. ADVANCING HEALTHCARE THROUGH
TEACHING MEDICAL PHYSICS AT THE
NATIONAL UNIVERSITY OF UZBEKISTAN**

**Polvonov S.R.¹, Tuymurodov D.I.¹, Ashurov S.A.¹,
Tuymuradov A.A.¹, Mamayusupova M.I.¹,
Artikova S.T.², Arslanova Sh.³**

¹National University of Uzbekistan, Tashkent

²Turin Polytechnic University in Tashkent

*³Tashkent city branch of the Republican Specialized
Scientific and Practical Center of Oncology and
Radiology, Tashkent*

15.55-16.10 **16. USE OF ^{99m}Mo NUCLEUS IN ISOMERIC STATE IN MEDICINE**
Polvonov S.R., Tuymurodov D.I., Tuymuradov A.A., Ashurov S.A., Mamayusupova M.I.
National University of Uzbekistan, Tashkent, Uzbekistan

16.10-16.30 **COFFEE-BREAK**

CHAIRMEN: Saburov V., Khaydarov R.R.

16.30-16.45 **17. THE SIGNIFICANCE OF THE MSCT METHOD IN THE CLINIC OF THE BUKHARA STATE MEDICAL INSTITUTE**
Teshayev Sh.J., Akhmedov F.Kh., Davlatov S.S.
Bukhara State Medical Institute named after Abu Ali ibn Sino, Bukhara, Uzbekistan

16.45-17.00 **18. DETERMINATION OF THE ELEMENTAL COMPOSITION OF THE HAIR BY INAA AND MS-ICP METHODS TO DETERMINE RISK GROUPS FOR VARIOUS DISEASES**
Sadikov I.I.¹, Danilova E.A.¹, Karandashev V.K.², Yarmatov B.Kh.¹, Osinskaya N.S.¹, Bahranov O.O.¹
¹Institute of Nuclear Physics, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan
²Institute for Problems of Technology of Microelectronics and High-Purity Materials of the Russian Academy of Sciences, Chernogolovka, Russia

17.00-17.15 **19. POSITIONAL EMISSION TOMOGRAPHY CAPABILITIES IN COLON TUMOUR DIAGNOSIS AND STAGING**
Islamov H.J., Israelbekova K.Sh., Saydullaev S.S., Mirzaimova S.S.
Republican Specialized Scientific and Practical Medical Center of Oncology and Radiology, Tashkent, Uzbekistan

17.15-17.30 **20. PHARMACOGENETIC AND MORPHOLOGICAL FEATURES OF STOMACH CANCER ON THE BACKGROUND OF UTERINE ENDOMETRIOSIS**
Khatamova M.T.

Bukhara State Medical Institute named after Abu Ali ibn Sino, Bukhara, Uzbekistan

17.30-17.45 **21. SUPPRESSION OF THE ACTIVATOR LUMINESCENCE OF $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Pr}$ SCINTILLATOR CRYSTALS BY INITIAL DEFECTS CHARGED BY GAMMA-IRRADIATION**

Ibragimova E.M., Khayitov I.A.

Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent

3 October, Tuesday

PARALLEL SESSION PROGRAM

SECTION II

THE USE OF NUCLEAR METHODS IN DISEASE TREATMENTS

14:30-18:00

SESSION I

CHAIRMEN: *Grigorieva E., Kakhkhorov S.K.*

14.30-14.50 **1. PREPARATION FOR RADIOEMBOLIZATION OF THE LIVER WITH YTTRIUM-90**

**Sigov M.A., Davydov G.A., Spichenkova O.N.,
Sidorenko E.A., Zubova A.V., Kucherov V.V.,
Petrosyan A.P.**

*A. Tsyb Medical Radiological Research Centre - branch
of the National Medical Research Radiological Centre,
Ministry of Health of the Russian Federation, Obninsk*

14.50-15.10 **2. EFFICIENCY OF RADIOIODINE REMNANT ABLATION IN CASES OF LOCALLY DIFFERENTIATED THYROID CANCER. ORIGINAL CLINICAL TRIAL**

**Shurinov A., Krylov V., Borodavina E.,
Severskaya N., Sigov M., Besselov P.**

*A.F. Tsyb Medical Radiological Research Center -
branch of the National Medical Research Radiological
Center, Ministry of Health of the Russian Federation,
Obninsk, Russia*

**PEPTIDE-RECEPTOR RADIONUCLIDE THERAPY.
MODERN CAPABILITY AND PERSPECTIVES**

Shurinov A., Borodavina E.

*A.F. Tsyb Medical Radiological Research Center -
branch of the National Medical Research Radiological
Center, Ministry of Health of the Russian Federation,
Obninsk, Russia*

15.10-15.30 **3. RADIOEMBOLIZATION OF THE LIVER
MICROSPHERES OF RUSSIAN PRODUCTION**
**Kaprin A.D., Ivanov S.A., Shegay P.V.,
Kucherov V.V., Petrosyan A.P., Stepanenko V.F.,
Tischenko V.K., Sigov M.A., Petrov L.O.**
*A. Tsyb Medical Radiological Research Centre -
branch of the National Medical Research Radiological
Centre, Ministry of Health of the Russian Federation,
Obninsk, Russia*

15.30-15.50 **4. INVESTIGATION AND MODELLING OF
RADIOLYSIS OF THERAPEUTIC
RADIOPHARMACEUTICALS**
**Larenkov A.A., Mitrofanov Iu.A., Pavlenko E.P.,
Rakhimov M.G.**
*State Research Center – Burnasyan Federal Medical
Biophysical Center of Federal Medical Biological
Agency, Moscow, Russia*

15.50-16.10 **5. RHENIUM-188 SUSPENSION FOR
RADIOSYNOVECTOMY, STABILIZED WITH
HYALURONIC ACID**
**Malysheva A.O., Kodina G.E., Lyamtseva E.A.,
Taratonenkova N.A.**
*State Research Center – Burnasyan Federal Medical
Biophysical Center of Federal Medical Biological
Agency, Moscow, Russia*

16.10-16.30

COFFEE-BREAK

CHAIRMEN: *Petrosyan A.P., Kulabdullaev G.A.*

16.30-16.50 **6. RADIOBIOLOGY OF AUGER EMITTERS**
Lobachevsky P.
*Joint Institute for Nuclear Research, Laboratory of
Radiation Biology, Dubna, Russia*

16.50-17.10 **7. RADIOIODINE REFRACTORY THYROID
CANCER: MODERN RECOMMENDATIONS**
Borodavina E.V., Shurinov A.Yu., Krylov V.V.
*A. Tsyb Medical Radiological Research Center -branch
of the National Medical Research Radiological Centre
of the Ministry of Health of the Russian Federation*

17.10-17.30 **8. STEREOTACTIC RADIOTHERAPY OF
PROSTATE CANCER**
Usychkin S.
Hadassah Medical Moscow, Russia

17.30-17.50 **9. MODELING OF DNA DAMAGE IN
MAMMALIAN TUMOR CELL FOR NEUTRON
CAPTURE THERAPY**
**Togtokhtur T.¹, Dushanov E.B.^{1,2}, Kulahava T.A.³,
Batmunkh M.¹, Bugay A.N.^{1,2}**
*¹Laboratory of Radiation Biology, Joint Institute
Nuclear Research, Dubna, Russia
²Dubna State University, Dubna, Russia
³Institute for Nuclear Problems, Belarusian State
University, Minsk, Belarus*

19:00 – 21:00

RECEPTION
*on behalf of Organizing Committee,
Hotel “Sahid Zarafshon”*

4 October, Wednesday

PARALLEL SESSION PROGRAM

SECTION II

THE USE OF NUCLEAR METHODS IN DISEASE TREATMENTS

14:30-18:00 SESSION II

CHAIRMEN: *Dushanov E.B., Nasirkhadjaev Ya.B.*

- 14.30-14.50 12. PSMA RADIOLIGAND THERAPY IN METASTATIC CASTRATION-RESISTANT PROSTATE CANCER. MRRC EXPERIENCE**
Kochetova T., Krylov V., Sigov M., Petriev V., Shurinov A., Spichenkova O., Stepanenko V., Vlasova O., Tishchenko V., Ivanov S., Kaprin A.
A.F. Tsyb Medical Radiological Research Center – branch of the National Medical Research Radiological Centre of the Ministry of Health of the Russian Federation
- 14.50-15.05 13. PET/CT FOR THERAPY RESPONSE ASSESSMENT IN LYMPHOMA**
Dauytova Yu.T., Ikramova S.E., Amankulov J.M.
PET/CT Center of Orhun Medical “Visual diagnostics” Department at Asfendiyarov Kazakh National Medical University, Almaty
- 15.05-15.20 14. DEVELOPMENT OF A MONITORING SYSTEM FOR A CLINICAL NEUTRON GENERATOR**
Kazakov E.I., Saburov V.O., Koryakin S.N.
The A.F. Tsyba Medical Radiological Research Center is a branch of the FSBI “NMIC of Radiology” of the Ministry of Health of Russia

- 16.45-17.00** **19. STUDY OF RADON-222 CONCENTRATION IN BUKHARA WATERS FOR USE IN RADON THERAPY**
**Kakhkhorov S.K.¹, Vasidova S.O.², Vasidov A.²,
Kakhkhorov S.Kh.¹**
¹Bukhara State University, Bukhara, Uzbekistan
²Institute of Nuclear Physics, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan
- 17.00-17.15** **20. SIMULATION OF THE INTERACTION OF PROTON BEAM WITH DELIVERY SYSTEM AND TISSUE EQUIVALENT MEDIA USING MONTE CARLO METHOD**
**Abduvaliev A.A., Abdullaeva G.A., Kim A.A.,
Kulabdullaev G.A., Bozorov E.Kh.**
Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent
- 17.15-17.30** **21. EVALUATION OF THE EFFECTIVENESS OF ADJUVANT RADIATION THERAPY FOR BREAST CANCER IN HYPOFRACTIONATION MODE**
**Ibragimov Sh.N., Khodzhaev A.V.,
Alimkhodzhaeva L.T., Israilov B.S., Zakirova L.T.**
Republican Specialized Scientific and Practical Medical Center of Oncology and Radiology, Tashkent, Uzbekistan
- 17.30-17.45** **22. OPTIMIZATION OF RADIATION THERAPY IN THE COMPLEX TREATMENT OF MALIGNANT TUMORS OF THE HEAD AND NECK IN THE DEPARTMENT OF RADIOTHERAPY RSPMCO&R**
**Tillyashaykhov M.N., Alimov J.M., Ostonova M.M.,
Akimbaev S.B., Karimov Sh.P.,
Makhamatov I.M., Tillashaykhov B.Kh.**
Republican Specialized Scientific and Practical Medical Center of Oncology and Radiology, Tashkent, Uzbekistan

17.45-18.00

**23. APPLICATION OF 4D PLANNING IN
BRACHYTHERAPY FOR CERVICAL AND
RECTAL CANCER**

**Mansurova G.B., Saidova K.A., Islamov H.J.,
Zahirova N.N., Chen E.E., Karakhodjaev B.Sh.,
Rashidova L.T., Ibragimova G.H.**

*Republican Specialized Scientific and Practical Medical
Center of Oncology and Radiology, Tashkent,
Uzbekistan*

18.00-18.15

**24. THE PRIMARY ENERGY PARAMETERS OF
DOSE ENHANCEMENT AT PHOTON ACTIVATION
THERAPY**

**Abdullaeva G.A.¹, Kulabdullaev G.A.¹, Kim A.A.¹,
Normatov E.Kh.¹, Rayimova M.B.²**

*¹Institute of Nuclear Physics, Uzbekistan Academy of
Sciences, Tashkent*

²National University of Uzbekistan, Tashkent

3 October, Tuesday

PARALLEL SESSION PROGRAM

SECTION III

PRODUCTION OF RADIOISOTOPES FOR NUCLEAR MEDICINE NEEDS

14:30-18:00

SESSION I

CHAIRMEN: *Chakrova Ye., Larenkov A.A.*

- 14.30-14.50** **1. RADIOCHEMICAL RESEARCH ON THE PRODUCTION OF RADIOACTIVE ISOTOPES AT THE INSTITUTE OF NUCLEAR PHYSICS OF THE ACADEMY OF SCIENCES OF UZBEKISTAN**
Khujaev S.
Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent
- 14.50-15.10** **2. TERBIUM RADIOISOTOPES PRODUCTION FOR NUCLEAR MEDICINE APPLICATIONS**
Aliev R.A.
National Research Centre “Kurchatov Institute”, Moscow, Russia
- 15.10-15.30** **3. RADIOCHEMISTRY FOR NUCLEAR MEDICINE AND LOW-BACKGROUND EXPERIMENTS**
Filosofov D.V.
Joint Institute for Nuclear Research, Dubna, Russia
- 15.30-15.50** **4. ORGANIZATION OF QUALITY CONTROL IN THE PRODUCTION OF RADIOPHARMACEUTICAL IN GMP CONDITIONS**
Chakrova Ye., Medvedeva Z., Gurin A.
Institute of Nuclear Physics of the Ministry of Energy of the Republic of Kazakhstan, Almaty

17.30-17.50 **9. PRODUCTION OF ^{44}Sc WITH $^{44}\text{Ti}/^{44}\text{Sc}$
GENERATOR FOR RADIOPHARMACEUTICAL
PURPOSES**

Larenkov A.A., Miroshin P.A.

*State Research Center – Burnasyan Federal Medical
Biophysical Center of Federal Medical Biological
Agency, Moscow, Russia*

19:00 - 21:00

RECEPTION

*on behalf of Organizing Committee, Hotel “Sahid
Zarafshon”*

4 October, Wednesday

PARALLEL SESSION PROGRAM

SECTION III

PRODUCTION OF RADIOISOTOPES FOR NUCLEAR MEDICINE NEEDS

14:30-18:00

SESSION II

CHAIRMEN: *Aliev R.A., Vasidov A.*

14.30-14.50

10. ALPHA-PARTICLE INDUCED REACTIONS AS ROUTES FOR PERSPECTIVE MEDICAL RADIONUCLIDES ^{169}Yb , ^{167}Tm , $^{165,160}\text{Er}$, ^{161}Ho , ^{140}Nd PRODUCTION

Kormazeva E.S., Aliev R.A., Khomenko I.A.

*National Research Centre “Kurchatov Institute”,
Moscow, Russian Federation*

14.50-15.10

11. EVALUATION OF CLINICAL-DOSIMETRIC AND PHARMACOKINETIC PROPERTIES OF THE RADIOPHARMACEUTICAL PREPARATION “SAMARIUM, ^{153}Sm OXABIFOR” IN THE TREATMENT OF BONE METASTASES

**Nishonov Sh.¹, Khujaev S.², Arifkhodjaev G.G.³,
Usarov Z.O.¹, Abdukayumov A.M.¹, Rikhsiev A.Z.¹,
Zikirov M.A.¹**

¹*State Enterprise “Radiopreparat”, Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent*

²*Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent*

³*Republican Specialized Scientific and Practical Medical Center for Surgery named after V. Vakhidov, Tashkent*

16.50-17.10

16. PREPARATION AND STUDY OF THE STABILITY OF THE PHARMACEUTICAL COMPOSITION [PSMA-617] AND THE RADIOPHARMACEUTICAL [¹⁷⁷Lu]-PSMA-617 FOR THE TREATMENT OF PROSTATE CANCER

Usarov Z.O., Abdukayumov A.M., Rikhsiev A.Z., Hajiev L.O., Sherov O.O., Akhmedov J.A.

Enterprise «Radiopreparat», Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent

METHOD FOR REGENERATION OF YTTERBIUM ENRICHED IN YTTERBIUM-176 FROM WASTE SOLUTIONS OF IRRADIATED SAMPLES OF YTTERBIUM-176

Usarov Z.O., Abdukayumov A.M., Rikhsiev A.Z., Akhmedov J.A., Sherov O.O.

Enterprise «Radiopreparat», Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent

17.10-17.30

18. PREPARATION AND STUDY OF THE STABILITY OF THE PHARMACEUTICAL COMPOSITION [PSMA-11] AND THE RADIOPHARMACEUTICAL «[^{99m}Tc]-PSMA-11 LABELED WITH THE RADIONUCLIDE ^{99m}Tc» FOR THE DIAGNOSIS OF PROSTATE CANCER

Usarov Z.O., Akhmedov J.A., Abdukayumov A.M., Rikhsiev A.Z., Hajiev L.O., Sherov O.O.

Enterprise «Radiopreparat», Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent