

This Meeting is under the auspices of the EANM

**International Meeting on Molecular Imaging and Molecular
Therapy-
From Nuclear to Newclear Medicine;
4th Serbian Meeting on Hybrid Imaging and Molecular Therapy
with International Participation**

March 2-3, 2017 Novi Sad



ORGANIZERS

**Medical Faculty, University of Novi Sad
&
Serbian Nuclear Medicine Society**



Venue

**March 2, 2017 – Assembly of the Autonomous Province of Vojvodina
&
March 3, 2017- Amphitheatre of the Rectorate**



Dear colleagues and guests,

It is my great pleasure to welcome you to the *International Meeting on Molecular Imaging and Molecular Therapy - From Nuclear to Newclear Medicine*, and *The 4th Serbian Meeting on Hybrid Imaging and Molecular Therapy with International Participation* organized by the Medical Faculty of Novi Sad and the Society of Nuclear Medicine of Serbia. Like previous years it is recognized by and under the auspices of the EANM.

Although it has been only a year since our last meeting, many things have changed and the city of Novi Sad has made great steps forward. It was selected for the European Capital of Culture for 2021 and for the European Youth Capital 2019. We believe that this year Meeting will once again confirm that our city deserves these prestigious titles, and much more.

During our previous meetings we have determined high standards in organization, scientific and social program, and improvement of the content of the Meeting. We hope that our efforts would be better this year. Nuclear medicine is dynamic field of medicine and we are aware of new solutions, radiopharmaceuticals, and imaging technics that are changing our everyday practice and putting new challenges in front of nuclear medicine specialist.

This year, as usual, we shall present the latest achievements in radionuclide therapy, hybrid imaging and conventional nuclear medicine. Our goal is to make these challenges solvable and applicable, to make unclear cases clear, changing nuclear medicine from unclear medicine to new clear medicine.

We hope that all lectures shall be valuable to you. We wish you a pleasant stay in Novi Sad in the company of the colleagues from many countries.

Sincerely Yours,
Research Professor Jasna Mihailović, MD, PhD
President of Serbian Nuclear Medicine Society
Chair, Organizing Committee

Mihailović' Jasna

Organizing Committee

Research Prof Jasna Mihailovic, PhD, MD, President of Serbian Nuclear Medicine Society
Prof Snezana Brkic, PhD, MD, Dean of the Medical Faculty of Novi Sad
Emil Matovina, MD
Nina Klicov, Chief Technician

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Dr Aida Afgan, MD, Serbia
Prof Boris Ajdinovic, MD, PhD, Serbia
Prof Vera Artiko, MD, PhD, Serbia
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Snezana Golubovic, MD, MSc Pharm, Serbia
Prof Slobodan Ilic, MD, PhD, Serbia
Prof Levent Kabasakal, MD, Turkey
Prof Milovan Matovic, MD, PhD, Serbia
Research Prof Jasna Mihailovic, MD, PhD, Serbia
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Dr Raluca Mititelu, MD, PhD, Romania
Dr Katarina Nikoletic, MD, PhD, Norway
Prof Vladimir Obradovic, MD, PhD, Serbia
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Prof Milena Rajic, MD, PhD, Serbia
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Prof Sonya Sergieva, MD, PhD, Bulgaria
Dr Qaisar Siraj, MD, PhD, Kuwait
Prof Marcel Stokkel, MD, PhD, The Netherlands
Prof Viacheslav Sukhov, MD, PhD, Russian Federation
Prof Jean-Noel Talbot, MD, PhD, France
Prof Mboyo Di Tamba Willy Vangu, MD, PhD, R South Africa
Research Prof Sanja Vranjes-Djuric, PhD, Serbia
Assoc Prof Radmila Zeravica, MD, PhD, Serbia

Honorary Committee

Assoc Prof Zoran Gojkovic, MD, PhD, Provincial Secretary for Healthcare
Prof Zoran Milosevic, PhD, Provincial Secretary for Higher Education and Scientific Research
Prof Dusan Nikolic, PhD, Rector of the University of Novi Sad
Prof Zoran Radovanovic, MD, PhD, Interim Director of Oncology Institute of Vojvodina, Sremska Kamenica

Honoured Guests

Prof Branimir Guduric, MD, PhD Former General Director of Oncology Institute of Vojvodina in Sremska Kamenica (1978-1982)
Prof Vladimir Baltic, MD, PhD Former General Director of Oncology Institute of Vojvodina in Sremska Kamenica (1989-2001)
Milica Malesevic, MD, PhD Former Head of Department of Nuclear Medicine at Oncology Institute of Vojvodina in Sremska Kamenica (2000-2007)
Prof Nevenka Stefanovic, MD, PhD, Former Head of Sterile Unit - Hematology Department at Clinical Center of Vojvodina, Novi Sad (1977-1998)

Thursday March 2, 2017

15.50 Transfer from Hotel PARK to the Assembly of the Autonomous Province of Vojvodina

16.30-19.00 Session I: Nuclear Medicine in Prostate Cancer

Moderators: Prof Jean-Noel Talbot, MD, PhD; Qaisar Siraj, MD, PhD

16.30-16.50

Prof Marcel Stokkel, MD, PhD (The Netherlands)

Prostate Cancer –Basic Principles and PET Tracers

16.50-17.10

Prof Mboyo Di Tamba Willy Vangu, MD, PhD (R South Africa)

The Use of PSMA Imaging in Patients with Prostate cancer: Gallium or Technetium?

17.10-17.30

Prof Levent Kabasakal, MD (Turkey)

¹⁷⁷Lu-PSMA Treatment of Prostate Cancer

17.30-17.50

Prof Marcel Stokkel, MD, PhD (The Netherlands)

PET/CT Imaging of NET with ⁶⁸Ga DOTA Peptides. Comparison with Other Imaging Modalities

17.50-18.10

Assoc Prof Marina Vljakovic, MD, PhD (Serbia)

PRRT Treatment Protocol

18.10-18.30

Prof Milovan Matovic, MD, PhD (Serbia)

Peptide Receptors Radionuclide Therapy (PRRT) of Neuroendocrine Tumors (NET). Eight-Year Experience in Centre of Nuclear Medicine Clinical Center Kragujevac, Serbia

18.30-19.00 Discussion

19.00-19.30 Opening Ceremony

19.00-19.15 Welcome Speech

Assoc Prof Zoran Gojkovic, MD, PhD, Provincial Secretary for Healthcare

Prof Goran Stojiljkovic, MD, PhD, Vice Dean for International Relations and Foreign Students, Faculty of Medicine Novi Sad

19.15-19.30 Musical program

Concert and Opera Singer Agota Vitkai Kucera, PhD accompanied by David Klem

1. Petar Konjovic-POD PENDZERI
2. Vincenzo Bellini-Malinconia, Ninfa Gentile

19.30-20.10 Session II: History of Nuclear Medicine

Moderators: Prof Branimir Guduric, MD, PhD; Prof Vladimir Baltic, MD, PhD; Milica Malesevic, MD, PhD

19.30-19.50

Research Prof Jasna Mihailovic, MD, PhD (Serbia)

In the Memory of Prof Ljubomir Stefanovic, MD, PhD, Founder of Nuclear Medicine Department in Sremska Kamenica

History of Department of Nuclear Medicine in Sremska Kamenica – Beyond 45-Year Anniversary

19.50-20.10

Prof Mladen Prvulovic, MD, PhD (Serbia)

An Overview of History of Nuclear Medicine in Yugoslavia and Serbia

20.30 Dinner and Dancing at Disco “Dandy”, Hotel PARK

Friday March 3, 2017

7.50 Transfer to the Amphitheatre of the Rectorate, University of Novi Sad

8.20-10.20 Session III: Nuclear Medicine in Cardiovascular Diseases

Moderators: Prof Mboyo Di Tamba Willy Vangu, MD, PhD; Prof Dragana Sobic Saranovic, MD, PhD

8.20-8.40

Qaisar Siraj, MD, PhD, (Kuwait)

The Evolving Role of Hybrid & Multimodality Imaging in Nuclear Cardiology

8.40-9.00

Assoc Prof Venjamin Majstorov, MD, PhD (R Macedonia)

Nuclear Imaging of Cardiac Amyloidosis

9.00-9.20

Katarina Nikoletic, MD, PhD (Norway)

Pharmacological Stress Imaging: Focus on Regadenoson

9.20-9.40

Prof Dragana Sobic Saranovic, MD, PhD (Serbia)

Role of FDG PET/CT in Cardiac Diseases

9.40-10.00

Prof Pávics László, MD, PhD, (Hungary)

Detection of Myocardial Involvement in Patient with Systemic Sclerosis by Cardiac ¹⁸F-FDG PET/CT and Speckle Tracking Echocardiography

10.00-10.20 Discussion

10.20 – 10.35 Coffee break

10.35-12.05 Session IV: PET/CT in Oncology

Moderators: Prof Levent Kabasakal, MD; Raluca Mititelu, MD, PhD

10.35-10.55

Milena Dimcheva, MSc (Bulgaria)

Phantoms and Computational Models in Nuclear Medicine and PET Centres

10.55-11.15

Dragi Stanimirovic, MD (RS, Bosnia and Herzegovina)

PET/CT in Breast Cancer

11.15-11.35

Prof Jean-Noel Talbot, MD, PhD (France)

FDG and FES in Metastatic Breast Carcinoma

11.35-11.55

Andrea Skanjeti, MD (France)

PET/CT in Gynecological Malignant Tumors

11.55 - 12.05 Discussion

12.05 – 14.00 Session V: Nuclear Medicine in Skeletal Diseases

Moderators: Prof Damir Dodig, MD, PhD; Sabina Dizdarevic, MD, PhD

12.05-12.25

Prof Daniela Miladinova, MD, PhD (R Macedonia)

SPECT/CT in Skeletal Disease

12.25-12.45

Raluca Mititelu, MD, PhD (Romania)

Nuclear Medicine Imaging in Multiple Myeloma

12.45-13.05

Assoc Prof Radmila Zeravica, MD, PhD (Serbia)

MIBI Imaging in Multiple Myeloma

13.05 – 13.25

Assoc Prof Viacheslav Sukhov, MD, PhD (Russian Federation)

Use of ^{99m}Tc labeled Zolendronic acid in Myeloma patients

13.25-13.45

Assoc Prof Dragan Pucar, MD, PhD (Serbia)

^{99m}Tc -MDP Combined with ^{99m}Tc - Ciprofloxacin Bone Scintigraphy of Periprosthetic Joint Infection

13.45 – 14.00 Discussion

14.00 – 15.00 Lunch

15.00-16.10 Session VI: Nuclear Medicine in Brain Disorders

Moderators: Prof Slobodan Ilic, MD, PhD; Assoc Prof Ljiljana Jaukovic, MD, PhD

15.00 – 15.20

Sabina Dizdarevic, MD, PhD (United Kingdom)

Imaging ABC Transporters Expression and Its Relationship to Disease

15.20-15.40

Qaisar Siraj, MD, PhD (Kuwait)

Brain Perfusion and Metabolism in Dementia

15.40 – 16.00

Andrea Peter, MD, PhD (Serbia)

¹⁸F-FDG PET and Alzheimer's Dementia

16.00 – 16.10 Discussion

16.00-17.30 Session VII: Thyroid Cancer and Miscellaneous

Moderators: Prof Amra Jakubovic Cickusic, MD, PhD; Prof Boris Ajdinovic, MD, PhD

16.00-16.20

Assoc Prof Tomislav Jukic, MD, PhD (Croatia)

Radioiodine Therapy of Differentiated Thyroid Cancer

16.20 – 16.40

Assoc Prof Ana Ugrinska, MD, PhD (R Macedonia)

Thyroid Carcinoma in Hot Nodules

16.40 – 17.00

Prof Sonya Sergieva, MD, PhD (Bulgaria)

SPECT-CT in the Management of Differentiated and Medullary Thyroid Cancers

17.00– 17.20

Sanja Dugonjic, MD, PhD (Serbia)

^{99m}Tc-MIBI/^{99m}Tc-Tetrofosmin in Parathyroid Glands Disease

17.20 – 17.30 Discussion

17.30-19.30 Poster Session I; Hall A

Moderators: Prof Vera Artiko, MD, PhD; Research Prof Jasna Mihailovic, MD, PhD

1. Ana Jakovljevic^{1,2}, Radmila Zeravica^{1,2}, Branislava Ilincic^{1,2}, Veljko Crnobrnja^{1,2}, Marija Papuga-Vukmirovic², Jelena Samac^{2,3}. Evaluation of Renal Functional Indices from Radionuclide Renal Scintigraphy with Value of Effective Renal Plasma Flow in Patients with Hypertension. Medical Faculty, University of Novi Sad¹; Department of Nuclear Medicine, Clinical Center of Vojvodina²; Department of Physics, Faculty of Science University of Novi Sad, Serbia³
2. Odalović S, Stojiljković M, Pantović J, Šobić-Šaranović D, Artiko V. The Significance of FDG PET/CT in Detection of Recurrent Colorectal Carcinoma and Association with Treatment Changes. Center of Nuclear Medicine, Clinical Center of Serbia, Belgrade Faculty of Medicine, University of Belgrade, Serbia
3. Stojiljković M, Odalović S, Pantović J, Šobić-Šaranović D, Artiko V. FDG PET/CT in Multiple Myeloma Therapy Response Assessment. Center of Nuclear Medicine, Clinical Center of Serbia, Belgrade Faculty of Medicine, University of Belgrade, Serbia
4. Samac J^{1,3}, Žeravica R^{2,3}, Jakovljević A^{2,3}, Crnobrnja V^{2,3}, Ilinčić B^{2,3}, Vukmirović-Papuga M³. How Wrong are We when Estimating T_{eff} of ¹³¹I in the Body to be 5.5 Days? Department of Physics, Faculty of Sciences, University of Novi Sad¹, Faculty of Medicine, University of Novi Sad², Department of Nuclear Medicine, Clinical Center of Vojvodina, Serbia³

5. S. Beatovic¹, M. Jankovic², D. Sobic-Saranovic¹, M Radulović³, V. Artiko¹. Advanced Analysis of Radionuclide Renogram by the Use of IAEA Software: Parameters of Renal Transit and Excretion for ^{99m}Tc MAG₃ and ^{99m}Tc DTPA. University of Belgrade Faculty of Medicine, Center for Nuclear Medicine, Clinical Center of Serbia, Belgrade, Serbia¹, University of Belgrade Faculty of Electrical Engineering, Belgrade, Serbia², Military Medical Academy, Institute of Nuclear Medicine, Belgrade, Serbia³
6. Afgan A, Petrovic J, Radovic B. Evaluation of Neuroendocrine Tumors with ^{99m}Tc-EDDA/HYNIC TOC. Center for Nuclear Medicine Clinical Center of Serbia, Faculty of Medicine University of Belgrade, Belgrade, Serbia
7. L. Brajković¹, V. Kostić^{2,3}, D. Šobić-Šaranović^{1,3}, E. Stefanova^{2,3}, M. Ječmenica-Lukić², A. Ješić¹, M. Stojiljković¹, S. Odalović^{1,3}, F.Gallivanone⁴, I.Castiglioni⁴, B. Radovic^{1,5}, V. Artiko^{1,3}. The Utility of FDG-PET in the Differential Diagnosis of Parkinsonism. Center for Nuclear Medicine, Clinical Center of Serbia, Belgrade, Serbia¹; Clinic for Neurology, Clinical Center of Serbia, Belgrade, Serbia²; Faculty of Medicine University of Belgrade, Belgrade, Serbia³; Institute of Molecular Bioimaging and Physiology, National Research Council, Milan, Italy⁴; Faculty of Medicine University of Pristina, Kosovska Mitrovica, Serbia⁵
8. Vukmirović Papuga M.^{1,2}, Ilinčić B.^{1,2}, Rašović P.^{1,3}, Turkalj I.⁴, Žeravica R.^{1,2}, Samac J². Inflammation Scintigraphy in Diagnosis of Posttraumatic Foot Imaging – Case Report. Medical faculty of Novi Sad, University of Novi Sad¹; Department of Nuclear Medicine, Clinical Centre of Vojvodina²; Department of Orthopedic Surgery and Traumatology, Clinical Center of Vojvodina³; Department of Radiology, Clinical Center of Vojvodina, Novi Sad, Serbia⁴
9. Miloradović Željka, Dugonjić Sanja. Bone Scintigraphy with ^{99m}Tc Agents – How to Avoid Suboptimal Images – Technical Aspects. Institute of Nuclear Medicine, Military Academy, Belgrade, Serbia
10. Mihailovic J¹, Matovina E¹, Crnobrnja V². Juvenile Differentiated Thyroid Carcinoma – Treatment, Outcome and Recurrent Disease. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia¹; Department of Nuclear Medicine, Clinical Center of Vojvodine, Novi Sad, Serbia²
11. D. Stanković, M. Radović, Đ. Petrović, M. Mirković, D. Janković, S. Vranješ-Đurić. Optimization of the Labeling Conditions of ⁹⁰Y DOTA-TATE. Laboratory for Radioisotopes, Vinča Institute of Nuclear Sciences, University of Belgrade, Serbia
12. M. Perić, Đ. Petrović, A. Vukadinović, M. Mirković, D. Janković, S. Vranješ-Đurić. ⁹⁹Mo/^{99m}Tc Generator - Improvements and Achievements. Laboratory for Radioisotopes, Vinča Institute of Nuclear Sciences, University of Belgrade, Serbia
13. Veljko Crnobrnja^{1,4}, Radmila Žeravica^{1,4}, Edita Stokić,^{2,4} Marija Vukmirović Papuga¹, Ana Jakovljević^{1,4}, Marijana Basta Nikolić^{3,4}, Maša Todorović¹. A Giant Parathyroid Mediastinal Adenoma-Case Report. Clinical Centre of Vojvodina, Department of Nuclear Medicine, Novi Sad¹; Clinical Centre of Vojvodina, Clinic for Endocrinology, Diabetes and Metabolic Diseases, Novi Sad²; Clinical Centre of Vojvodina, Center for Radiology, Novi Sad³; Medical Faculty, University of Novi Sad, Serbia⁴
14. Odalović S, Stojiljković M, Pantović J, Šobić-Šaranović D, Artiko V. The Significance of FDG PET/CT in Detection of Recurrent Colorectal Carcinoma and Association with Treatment Changes. Center of Nuclear Medicine, Clinical Center of Serbia, Belgrade; Faculty of Medicine, University of Belgrade
15. Rajic M, Vlajkovic M, Ilic S, Stevic M, Misic I, Kojic M. Evaluation of Postoperative Thyroid Remnant Ablation Success Rate after First Dose of 3.7 GBq of Iodine-131 in Patients with Differentiated Thyroid Carcinoma. Center of Nuclear Medicine, University of Nis, Medical School and Clinical Center, Serbia

16. E. Matovina¹, J. Mihailović¹, N. Prvulovic-Bunovic², V. Cimbalević¹, J. Roganović³, FDG-PET/CT in differentiated thyroid cancer patients with persistently or progressively increased Tgβ-TA level and negative iodine-131 whole-body scan. Department of Nuclear Medicine¹, Center for Diagnostic Imaging², Oncology Institute of Vojvodina, Sremska Kamenica^{1,2}, Medical Faculty Novi Sad, Novi Sad, Serbia³
17. N. Prvulovic-Bunovic¹, J. Mihailovic², J. Boban¹, E. Matovina², J. Roganovic³. Spine MRI versus Bone Scintigraphy in the Assessment of Focal Metastatic Deposition. Center for Diagnostic Imaging¹, Department of Nuclear Medicine², Oncology Institute of Vojvodina, Sremska Kamenica^{1,2}, Medical Faculty Novi Sad, Novi Sad, Serbia³
18. V.D. Ignjatovic^{1,2}, V. Vukomanovic^{1,2}, M. Jeremic¹, Matovic^{1,2}. Influence of Spironolactone on Urinary Excretion of Radioiodine in Patients with Differentiated Thyroid Cancer. Clinical Center Kragujevac, Centre for Nuclear Medicine; University of Kragujevac, Faculty of Medical Sciences, Kragujevac, Serbia

17.30-18.30 Poster Session II; Hall B – Technicians’ Presentations

Moderators: Branislava Đorđević, Technologist; Nina Klicov, Chief Technologist

1. Darko Maričić, Branislava Đorđević, Milica Ilić, Dora Sabo, Milica Šatara, Mirjana Čalasan. The Influence of Arm Position in Salivary Gland Scintigraphy–Case Presentation. Department of Nuclear Medicine, Clinical Center of Vojvodina, Novi Sad, Serbia
2. Marija Filko. PET/CT – What, When and Where? Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
3. Nikolina Jelić. Method of Dynamic Salivary Gland Scintigraphy in Patients With Dry Mouth Syndrome. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
4. Maja Slepčev Tamburić. Application of Radioactive Iodine In The Treatment of Thyroid Cancer. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
5. Marko Vasiljević. Bone Scintigraphy as a Diagnostic Tool For Detection of Bone Metastases. Center for Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
6. Nina Klicov. The Importance of Nuclear Medicine in Cardiology. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
7. Branislav Bogdanović. Methodology of Thyroid Gland Scintigraphy. Department of Nuclear Medicine, Oncology Institute of Vojvodina, Sremska Kamenica, Serbia
8. Snežana Slijepčević, Sanja Đorđević, Jovana Bjelica. Tc – 99m and F – 18 FDG - The Milestone of Radiopharmacy. Center for Nuclear Medicine, Clinical Center of Serbia, Belgrade, Serbia

20.00 Gala Dinner at Hotel Park