



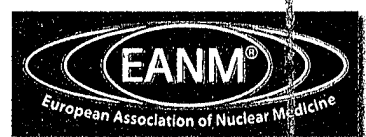
Serbian Society
of Nuclear Medicine



Republic of Serbia
MINISTRY OF HEALTH



Serbian Medical Society



European Association
of Nuclear Medicine

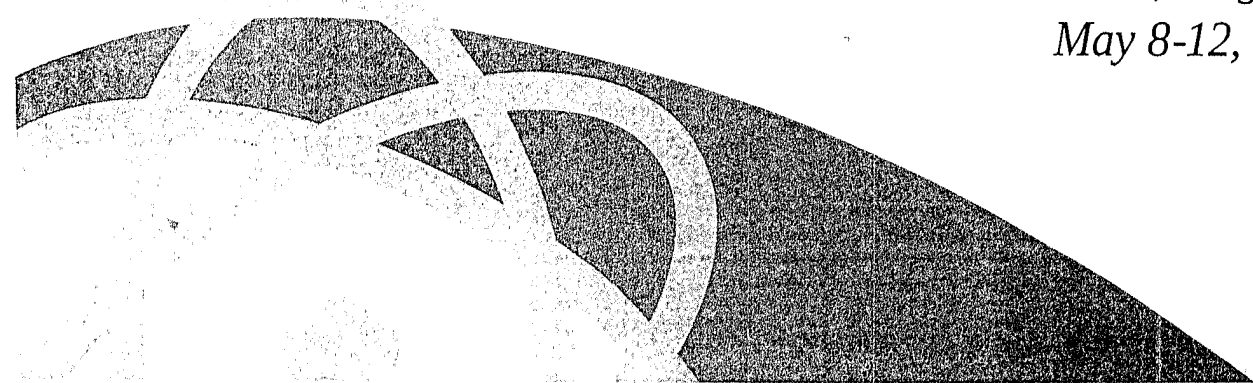
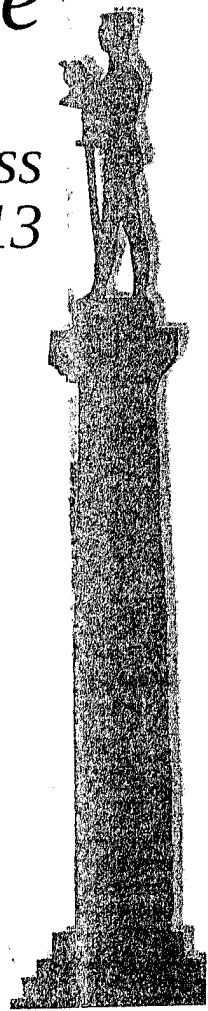
2nd Balkan Congress of Nuclear Medicine

*& Serbian Congress
of Nuclear Medicine 2013*

Abstract Book



*"Zira" Hotel, Belgrade
May 8-12, 2013*



SCIENTIFIC PROGRAMME

WEDNESDAY, 08 May, 2013

18⁰⁰-18³⁰ Registration

18³⁰-19³⁰ Opening Ceremony

Chairpersons: *Vladimir Obradović,*
Magana Šobić Šaranović, Vera Artiko

Vladimir Obradović
WELCOME MESSAGE

National Authorities

EANM Authorities

Artistic Programme

L.v.Beethoven: "Ode to Joy"
arr. A.Randević: "Beautiful Maria of my Soul"
S.S.Mokranjac: The 2nd Song Wreath
(Folk Songs)

Choir: "Equilibrium"
Conductor: *Olga Miličević*

J.B. Breval: Duet No.3, Presto
M. McLean; Tango

Mirjana Nešković-violin
Natalija Delević- cello

19³⁰-20⁰⁰ Plenary Lecture

Arturo Chiti
THE FUTURE OF HYBRID IMAGING

20⁰⁰-21⁰⁰ Welcome Reception

THURSDAY, May 09, 2013

08⁰⁰-12⁰⁰ Registration

08⁰⁰-09³⁰ Session 1 (Invited Lectures)

Chairpersons: *Omer Ugur, Slobodan Ilić*

08⁰⁰-08³⁰ **Alan Waxman**
MOLECULAR IMAGING OF THE BRAIN

08³⁰-09⁰⁰ **Andreas Fotopoulos**
THE ROLE OF SPECT IN BRAIN TUMOR IMAGING

09⁰⁰-09³⁰ **Seyfettin Ilgan**
HEAD AND NECK CARCINOMAS

09³⁰-10⁰⁰ Coffee Break/Commercial Presentations 15 min
GE HOLDINGS DOO ("GE HEALTHCARE"),
GE HEALTHCARE PET/CT NEW SOLUTIONS IN
ASSESSMENT OF ONCOLOGY TREATMENT EFFICIENCY

10⁰⁰-11³⁰ Session 2 (Invited Lectures)

Chairpersons: *Elma Kučukalić-Selimović, Jasna Mihailović*

10⁰⁰-10³⁰ **Sergej Hojker**
PET/CT IN THYROID CARCINOMA

10³⁰-11⁰⁰ **Omer Ugur**
PARATHYROID (IMAGING AND INTRAOPERATIVE
DETECTION)

11⁰⁰-11³⁰ **Arturo Chiti**
PET/CT IN RADIOTHERAPY PLANNING

11³⁰-12⁰⁰ Commercial Presentations 30 min
Pflizer
"QUANTITATIVE IMAGING FOR NEUTRAL
MEDICINE RESEARCH" - ANDREA BLOD AND WASKI

12⁰⁰-13⁰⁰ Lunch

- PP29 Sabo Lj., Lakić M., Savić A., Ristić S., Vranješ-
 Đurić S., Nikolić N., Mirković M., Stanković D.,
 Obradović V., Janković D., Sabo T.J.
 SYNTHESIS, CHARACTERIZATION AND LABELING WITH
^{99m}Tc(I) OF ETHYLENE DIAMINE-N,N'-DI-3-
 PROPANOATE DIETHYL ESTER AS POTENTIAL
 RADIOPHARMACEUTICAL AGENT 15³⁰-15⁴⁰ Fidl
 U, R
 MUC
 IRRE
- PP30 Smilkov K., Gorgieva D., Janevik E.
 Lu-177 LABELLED RITUXIMAB - NEW APPROACH TO
 HAVE SUITABLE RADIOPHARMACEUTICAL 15⁴⁰-15⁵⁰ Raji
 M., I
 ASSE
^{99m}Tc
 IN PR
- PP31 Zdraveska Kochovska M., Vaskova O., Janevik
 Ivanovska E.
 CHALLENGES OF IMPLEMENTATION OF CYCLOTRON
 AND PET/CT UNIT 15⁵⁰-16⁰⁰ Beat
 Pipe
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 PACK.
 SCINT
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 STANI

15⁰⁰-16⁰⁰ Session 5 (Oral Presentations)

Chairpersons: Vasilis Prassopoulos, Milena Rajic,
 Branislav Baškot

- 15⁰⁰-15¹⁰ Janevik E., Gorgieva D., Smilkov K.
 THE IMPORTANT CLINICAL AND PHARMACEUTICAL
 ASPECTS OF RADIOPHARMACEUTICAL USAGE 16⁰⁰-16¹⁰ Puca
 THE R
 DIME
 SCINT
 HYDR
- 15¹⁰-15²⁰ Katsikis A., Theodorakos A., Tsapaki V.,
 Kouzoumi A., Kollaros N., Kitziri E., Kitziri S.,
 Voudris V., Pavlides G., Koutelou M.
 PROGNOSTIC VALUE OF MYOCARDIAL PERFUSION
 IMAGING WITH TREADMILL EXERCISE STRESS IN
 OCTOGENARIANS WITH PREVIOUS
 REVASCULARIZATION PROCEDURES 16¹⁰-16²⁰ Jakov
 Crnol
 Dujm
 Tc-99r
 IN ACI
 RENAL
- 15²⁰-15³⁰ Stević M., Vlajković M., Koračević G., Kocić
 R., Rajić M., Kojić M., Mišić I., Ilić S.
 MYOCARDIAL PERFUSION SCINTIGRAPHY IN
 DETECTION OF MYOCARDIAL ISCHEMIA AND
 THERAPY PLANNING IN EARLY STAGES OF DIABETES
 MELLITUS 16²⁰-16³⁰ Todor
 Šaran
 PATOP
 THRON
 INVEST
 LABELI
- 16³⁰-16⁴⁵ Brea

Lu-177 LABELLED RITUXIMAB - NEW APPROACH TO HAVE SUITABLE RADIOPHARMACEUTICAL

Smilkov K, Gorgjeva D, Janevik E

Faculty of Medical Sciences, University Goce Delcev -Stip, MACEDONIA, the Former Yugoslav Republic of

The purpose of this investigation was to introduce a technology for the production of ready-to-use cold kit formulations for the labelling of conjugated DOTA-Rituximab with Lu-177, and to standardize the methods for synthesis and conjugation. In a parallel study, the biological properties and pharmacokinetic behaviours of radiolabelled DOTA-Rituximab were investigated to compare and determine their toxicities and therapeutic efficacies using model systems comprising both isolated cell cultures and laboratory animals.

DTPA- or DOTA-chelated antibodies have been proved to be effective in radioimmunotherapy of cancer after radiolabelling with beta-emitting radiometals. The standardization of methods for conjugation of suitable chelators to monoclonal antibodies and the further pharmaceutical development of these conjugates were planned within the framework of an IAEA coordinated research project aimed at developing radiopharmaceuticals labelled with ¹⁷⁷Lu.

Therefore, our study was focused on the development of a freeze-dried kit formulation based on DOTA-anti-CD20 Rituximab for ¹⁷⁷Lu labeling as potential radiopharmaceutical for radionuclide therapy.

For this reason the first part of our work was devoted to establish an efficient freeze-drying procedure for developing a final kit formulation for simple antibody labeling. The procedure for freeze-drying should provide a stable ready-to-use kit formulation, having the same labeling efficiency as established for the freshly prepared laboratory preparation. The freeze-dried formulation should preserve the same immunoreactivity of the antibody before and after conjugation as already observed for the liquid formulation. For this reason, we focused our study on the evaluation of the most important steps required to set up a suitable freeze-drying protocol and, in particular, to estimate the optimal time for lyophilization of the monoclonal antibody during each phase of the process, e.g., (a) pre-freezing, (b) primary drying and (c) secondary drying.

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