

# **2015 IFMP-Workshop: MEDICAL IMAGING and BIOMEDICAL ENGINEERING**



## **Report of Contributions**

Contribution ID: 3

Type: **not specified**

# Welcome

**Primary author:** DANIELA, Miladinova

**Presenter:** MILADINOVA, Daniela

**Session Classification:** Opening Session

Contribution ID: 4

Type: **not specified**

## **Medical Physics in Macedonia**

**Primary author:** SONJA, Petkovska

**Presenter:** PETKOVSKA, Sonja

**Session Classification:** Opening Session

Contribution ID: 5

Type: **not specified**

## Medical Imaging - Review

**Primary author:** Dr LEMOIGNE, Yves (TERA Foundation (IT))

**Presenter:** Dr LEMOIGNE, Yves (TERA Foundation (IT))

**Session Classification:** Opening Session

Contribution ID: 6

Type: **not specified**

## **Interactions of Biomedical Oscillations**

**Presenter:** STANKOVSKI, Tomislav

**Session Classification:** Opening Session

Contribution ID: 7

Type: **not specified**

## **From Model-based to Patient Specific Dosimetry in Nuclear Medicine**

**Presenter:** BARDIES, Manuel

**Session Classification:** Session 1: Medical Physics in Nuclear medicine

Contribution ID: 8

Type: **not specified**

## Effective Dose Estimation and Risk

**Presenter:** ZDRAVESKA, Marina

**Session Classification:** Session 1: Medical Physics in Nuclear medicine

Contribution ID: 9

Type: **not specified**

## **Introduction to CT**

**Presenter:** HAGLUND, Julie

**Session Classification:** Session 1: Medical Physics in Nuclear medicine



Contribution ID: **10**

Type: **not specified**

## **SPECT/CT Instrumentation And Clinical Applications**

**Presenter:** MILADINOVA, Daniela

**Session Classification:** Session 2: Basic of CT

Contribution ID: 11

Type: **not specified**

## **Dose Optimization And Methods In MDCT**

**Presenter:** GERSHAN, Vesna

**Session Classification:** Session 2: Basic of CT

Contribution ID: 12

Type: **not specified**

## **PET Principals And History**

**Presenter:** RAUSCH, Ivo

**Session Classification:** Session 3: PET & Main Applications, Chair: Sonja PETKOVSKA, ACIBADEM Sistina, Skopje

Contribution ID: 13

Type: **not specified**

## **Clinical applications of FDG in PET/CT**

**Presenter:** TALBOT, J-N

**Session Classification:** Session 3: PET & Main Applications, Chair: Sonja PETKOVSKA, ACIBADEM Sistina, Skopje

Contribution ID: 14

Type: **not specified**

## **Clinical PET CT With Other Tracers**

**Presenter:** TALBOT, J-N

**Session Classification:** Session 4: More PET Imaging Applications, Chair: Marina ZDRAVESKA-KOCEVSKA, Skopje

Contribution ID: 15

Type: **not specified**

## Research Example By Small Animal PET

**Presenter:** Dr LEMOIGNE, Yves (TERA Foundation (IT))

**Session Classification:** Session 4: More PET Imaging Applications, Chair: Marina ZDRAVESKA-KOCEVSKA, Skopje

Contribution ID: 16

Type: **not specified**

## **Varian - Opportunities in early diagnosis and treatment**

**Presenter:** ZOGLOPITOU, Lydia

**Session Classification:** Session 4: More PET Imaging Applications, Chair: Marina ZDRAVESKA-KOCEVSKA, Skopje

Contribution ID: 17

Type: **not specified**

## **PET Quality Control And Quantification**

**Presenter:** RAUSCH, Ivo

**Session Classification:** Session 5: PET Complements



Contribution ID: **18**

Type: **not specified**

## **PET in Norway**

**Presenter:** HAGLUND, Julie

**Session Classification:** Session 5: PET Complements

Contribution ID: 19

Type: **not specified**

## **Images in Radiotherapy CT PET/CT**

**Presenter:** PETKOVSKA, Sonja

**Session Classification:** Session 5: PET Complements

Contribution ID: **20**

Type: **not specified**

## **PET-MRI**

**Presenter:** BIDAUT, Luc

**Session Classification:** BANQUET In OCC Restaurant

Contribution ID: **21**

Type: **not specified**

# CHERRIE

**Presenter:** VOSNIAKOS, Fokion

**Session Classification:** BANQUET In OCC Restaurant

Contribution ID: 22

Type: **Powerpoint presentation or pdf**

## **General Risks with Radiation**

**Presenter:** MEDVEDEC, Mario

**Session Classification:** Session 7: Radiation Protection in MP applications ; Chair: P. Le Dû,  
IEEE.org

Contribution ID: 23

Type: **not specified**

## **Radiation Protection Optimization Example**

**Presenter:** MEDVEDEC, Mario

**Session Classification:** Session 7: Radiation Protection in MP applications ; Chair: P. Le Dù,  
IEEE.org

Contribution ID: 24

Type: **not specified**

## **Patient Worker Public Radiation Protection**

**Presenter:** MEDVEDEC, Mario

**Session Classification:** Session 7: Radiation Protection in MP applications ; Chair: P. Le Dù, IEEE.org

Contribution ID: 25

Type: **not specified**

## Shielding requirements for PET/CT

**Presenter:** HAGLUND, Julie

**Session Classification:** Session 8: PET Versus HEP Transfers to Medical Physics ; Chair: Ivo Rausch, Vienna, Austria



Contribution ID: 26

Type: **not specified**

## **Application of Fundamental Physics in Medicine**

**Presenter:** LE DU, Patrik

**Session Classification:** Session 8: PET Versus HEP Transfers to Medical Physics ; Chair: Ivo Rausch, Vienna, Austria

Contribution ID: 27

Type: **not specified**

## Developments in PET from HEP

**Presenter:** LITOV, Leandar

**Session Classification:** Session 8: PET Versus HEP Transfers to Medical Physics ; Chair: Ivo Rausch, Vienna, Austria

Contribution ID: 28

Type: **not specified**

## Hadrontherapy principles

**Presenter:** ALTIERI, Palma Rita

**Session Classification:** Session 9: Use of PET in Hadrontherapy ; Chair: M. Medvedec, Zagreb, Croatia

Contribution ID: 29

Type: **not specified**

## On line dose monitoring

**Presenter:** ALTIERI, Palma Rita

**Session Classification:** Session 9: Use of PET in Hadrontherapy ; Chair: M. Medvedec, Zagreb, Croatia

Contribution ID: **30**

Type: **not specified**

## **Particle Therapy - the future**

**Presenter:** LE DU, Patrik

**Session Classification:** Session 9: Use of PET in Hadrontherapy ; Chair: M. Medvedec, Zagreb, Croatia

Contribution ID: **31**

Type: **not specified**

## Final Discussion

**Presenters:** PETKOVSKA, Sonja; Dr LEMOIGNE, Yves (TERA Foundation (IT))

**Session Classification:** Session 10: Open Discussion & Conclusions ; Chair: D. Miladinova & Y. Lemoigne

Contribution ID: 32

Type: **not specified**

## End of the workshop

**Session Classification:** Session 10: Open Discussion & Conclusions ; Chair: D. Miladinova & Y. Lemoigne

Contribution ID: 33

Type: **Powerpoint presentation or pdf**

## **Short Medical Imaging Review**

*Sunday, 6 September 2015 11:00 (45 minutes)*

### **Summary**

**Presenter:** Prof. LEMOIGNE, Yves (IFMP & TERA Foundation)



Contribution ID: 34

Type: **Powerpoint presentation or pdf**

## **Rector Welcome / Prof. Miladinova, Vice-Dean**

### **Summary**

Contribution ID: 35

Type: **Powerpoint presentation or pdf**

## **Introduction to Medical Imaging**

**Presenter:** HYBRID , 0ne (Team@ifmp.eu)

Contribution ID: 36

Type: **not specified**

## Medical Physics in Macedonia

*Sunday, 6 September 2015 09:50 (40 minutes)*

**Presenter:** Dr PETKOVSKA, Sonja (ACIBADEM | SISTINA Radiotherapy&Oncology)

Contribution ID: 37

Type: **not specified**

## **Interactions of Biomedical osciliations**

*Sunday, 6 September 2015 11:45 (45 minutes)*

**Presenter:** Prof. STANKOVSKI, Tomislav (UKIM, Skopje, Macedonia)

Contribution ID: **38**

Type: **not specified**

## **Lunch at Restaurant 1**

Contribution ID: 39

Type: **not specified**

## **Nuclear Medicine:Diagnostic & Therapy**

*Sunday, 6 September 2015 13:30 (45 minutes)*

**Presenter:** Prof. BARDIES, Manuel (Inserm, Toulouse, FR)

Contribution ID: 40

Type: **not specified**

## **Dose & Risks in Iodine 131 Treatment**

*Sunday, 6 September 2015 14:15 (45 minutes)*

**Presenter:** Dr ZDRAVESKA-KOCHOVSKA, Marina (UKIM Skopje, Macedonia)

Contribution ID: 41

Type: **not specified**

## **CT: Computed Tomography**

*Sunday, 6 September 2015 15:00 (45 minutes)*

**Presenter:** Dr HAGLUND, Julie (Fredrikstad, Norway)



Contribution ID: 42

Type: **not specified**

## **PET Quality Control & Quantification**

*Monday, 7 September 2015 14:15 (45 minutes)*

**Presenter:** Dr RAUSCH, Ivo (Medical University Vienna, Austria)

Contribution ID: 43

Type: **not specified**

## **Opportunities in Early Diagnosis & treatment**

*Monday, 7 September 2015 12:30 (40 minutes)*

**Presenter:** Dr ZOGLOPITOU, Lydia (Varian Medical Systems)

Contribution ID: 44

Type: **not specified**

## **Research Example by Small Animal PET**

*Monday, 7 September 2015 11:30 (1 hour)*

**Presenter:** Dr LEMOIGNE, Yves (TERA Foundation (IT))

Contribution ID: 45

Type: **not specified**

## **Clinical PET/CT with othertracers**

*Monday, 7 September 2015 10:45 (45 minutes)*

**Presenter:** TALBOT, J.N. (Hôpital Tenon Paris, France)

Contribution ID: 46

Type: **not specified**

## **Clinical Application of FDG PET/CT**

*Monday, 7 September 2015 09:15 (1 hour)*

**Presenter:** Prof. TALBOT, Jean-Noel (Tenon Hospital, Paris, France)

Contribution ID: 47

Type: **not specified**

## **PET Principol & History**

*Monday, 7 September 2015 08:15 (1 hour)*

**Presenter:** Dr RAUSCH, Ivo (Medical University, Vienna, AUstria)

Contribution ID: 48

Type: **Powerpoint presentation or pdf**

## **SPECT/CT: Instrument & Clinical Applications**

*Sunday, 6 September 2015 16:15 (45 minutes)*

**Presenter:** Dr MILADINOVA, Daniela (UKIM, Skopje)

Contribution ID: 49

Type: **Powerpoint presentation or pdf**

## **Dose Optimisation in MDCT**

*Sunday, 6 September 2015 17:00 (45 minutes)*

**Presenter:** Dr GERSHAN, Vesna (UKIM, Skopje, Macedonia)



Contribution ID: 50

Type: **Powerpoint presentation or pdf**

## **UKIM Rector Welcome / Prof. Miladinova, Vice-Dean / Prof Yves Lemoigne**

*Sunday, 6 September 2015 09:00 (50 minutes)*

**Presenter:** Prof. MILADINOVA, Daniela (Vice-Dean UKIM, Skopje, Macedonia)

Contribution ID: 51

Type: **not specified**

## **PET in Norway / an Example**

*Monday, 7 September 2015 15:00 (45 minutes)*

**Presenter:** Dr HAGLUND, Julia (Frederikstat)

Contribution ID: 52

Type: **not specified**

## **Imaging For R. Oncology (CT, PET-CT)**

*Monday, 7 September 2015 15:45 (45 minutes)*

**Presenter:** Dr PETKOVSKA, Sonja (ACIBADEM Sistina, Skopje, Macedonia)

Contribution ID: 53

Type: **not specified**

## **PET-MRI: Principle, Advantage & Problems**

*Monday, 7 September 2015 17:00 (45 minutes)*

**Presenter:** Prof. BIDAUT, Luc (Dundee University, Dundee, Scotland)

Contribution ID: 54

Type: **not specified**

## Ecologic Talk

*Monday, 7 September 2015 17:45 (45 minutes)*

**Presenter:** Prof. VOSNIAKOS, Fokion (Thessaloniki University, Greece)

Contribution ID: 55

Type: **not specified**

## **General Risks in Radiation**

*Tuesday, 8 September 2015 09:00 (40 minutes)*

**Presenter:** Dr MEDVEDEC, Mario (Zagreb University, Croatia)

Contribution ID: 56

Type: **not specified**

## **Optimisation in Nuclear Medicine**

*Tuesday, 8 September 2015 09:40 (40 minutes)*

**Presenter:** Dr MEDVEDEC, Mario (Zagreb University, Croatia)

Contribution ID: 57

Type: **not specified**

## **Patient, Workers, Public Protection**

*Tuesday, 8 September 2015 10:20 (40 minutes)*

**Presenter:** Dr MEDVEDEC, Mario (University of Zagreb, Croatia)



Contribution ID: 58

Type: **not specified**

## **Shielding Requirements for PET/CT**

*Tuesday, 8 September 2015 11:15 (30 minutes)*

**Presenter:** Dr HAGLUND, Julie (Fredrikstad, Norway)

Contribution ID: 59

Type: **not specified**

## Developments in PET from HEP

*Tuesday, 8 September 2015 12:25 (35 minutes)*

**Presenter:** Prof. LITOV, Leandar (Sofia University, Bulgaria)

Contribution ID: **60**

Type: **not specified**

## **Transfer from HEP to MP**

*Tuesday, 8 September 2015 11:45 (40 minutes)*

**Presenter:** Dr LE DU, Patrick (IPN Lyon, France)

Contribution ID: **61**

Type: **not specified**

# Hadrontherapy Principle

*Tuesday, 8 September 2015 14:00 (40 minutes)*

**Presenter:** Dr ALTIERI, Palma Rita (Bari University, Italy)

Contribution ID: **62**

Type: **not specified**

## **Online Monitoring**

*Tuesday, 8 September 2015 14:40 (40 minutes)*

**Presenter:** Dr ALTIERI, Palma Rita (Bari University, Italy)

Contribution ID: 63

Type: **not specified**

## Particle Therapy, The Future...

*Tuesday, 8 September 2015 15:20 (40 minutes)*

**Presenter:** Dr LE DU, Patrick (IPN, Lyon, France)

Contribution ID: **64**

Type: **not specified**

## **Open Discussion and Conclusions**

*Tuesday, 8 September 2015 16:30 (1 hour)*

**Presenter:** Dr LEMOIGNE, Yves (TERA Foundation (IT))