International Course on

THERANOSTICS AND

MOLECULAR RADIOTHERAPY

A Joint Initiative of IAEA – BELNUC - JULES BORDET INSTITUTE

OCTOBER 2 - 6, 2017

Venue: Auditorium Tagnon
Jules Bordet Institute
Boulevard de Waterloo 121
1000 BRUSSELS
BELGIUM
MONDAY  October 2, 2017

9:00-9:30 AM  Pre-Course knowledge evaluation IAEA participants - Multiple Choice Questions

9:30-10:00 AM  Welcome by the 3 hosts: Patrick FLAMEN (Institut Jules Bordet, IJB, Brussels)  
Christophe DE ROOSE (BELNUC)  
Rodolfo NUNEZ MILLER (IAEA, Vienna)

10:00-10:45 AM  Theranostics Richard BAUM (Zentralklinik Bad Berka, Germany)

10:45 AM  Coffee Break

11:00-12:30 PM  Basic Aspects: Nuclear Medicine and Theranostics:

- Physical Bases: which isotopes? Silvano GNESIN (CHUV, Lausanne)  
- Radiopharmacy Zéna WIMANA (IJB, Brussels)  
- Radiobiology of Radionuclide Therapy Sarah BAATOUT (SCK, UZ Ghent)

12:30 PM  LUNCH

2:00-2:45 PM  Targeted Radionuclide Therapy using Alpha Emitting Radioisotopes  
Michael ZALUTSKY (Duke Univ., U.S.A.)

2:45–3.00 PM  Discussion

3:00 PM  Coffee Break

3:15-4:30 PM  Regulatory Aspects: new tracer developments

- Regulatory aspects: Radiopharmacy (GMP) Guy BORMANS (KUL, Leuven)  
- Regulatory aspects: European Directives Marleen VAN DE CAPELLE (FANC, Brussels)

5:00 PM  OPENING RECEPTION  
Cafeteria of Institut Jules Bordet
TUESDAY October 3, 2017

Neuroendocrine Tumors

9:00-10:30 AM
- Oncology to be confirmed
- Molecular Imaging of NET Christophe DE ROOSE (KUL, Leuven)
- PRRT in Management of NET Ioannis KARFIS (IJB, Brussels)

10:30 AM Coffee Break

11:00-12:00 AM Intra-arterial Treatments:
- SIRT in Neuroendocrine Tumors Marnix LAM (UMC, Utrecht)
- Intra-arterial Applications of PRRT Georgios LIMOURIS (NKUA, Athens)

12:00-12:30 PM Predicting Efficacy and Toxicity of PRRT to be confirmed

12:30 PM LUNCH

2:00-3:00 PM
- Dosimetry Silvano GNESIN (CHUV, Lausanne)
- Activity Quantification for Dosimetry Gwennaëlle MARIN (IJB, Brussels)

3:00-3:30 PM Radiopharmacy of SSTR targeted Theranostics Zéna WIMANA (IJB, Brussels)

3:30 PM Coffee Break

4:00 – 4:30 PM Neuroblastoma: MIBG Therapy Boudewijn BRANS (UZ, Ghent)

4:30-5:00 PM IAEA Nuclear Medicine Initiatives Rodolfo NUNEZ MILLER (IAEA, Austria)
WEDNESDAY October 4, 2017

Radio-embolisation Liver Tumors

9:00-10:30 AM
- SIRT in HCC
- Oncology: SIRT in Colorectal Cancer
- SIRT: State of the ART
  Vincent DONCKIER (IJB, Brussels)
  Alain HENDLISZ (IJB, Brussels)
  Marnix LAM (UMC Utrecht)

10:30 AM  Coffee Break

11:00-11:30 AM  Interventional Radiology:
  Radiation lobectomy / Segmentectomy
  Michael VOUCHE (IJB, Brussels)

11:30-12:00 AM  Resin vs Glass Microspheres: physical Aspects
  Stephan WALRAND (UCL, Brussels)

12:00-12:30 PM  Predictive Dosimetry: BSA vs Partition Model
  Silvano GNESIN (CHUV, Lausanne)

12:30 PM  LUNCH

2:00-2:30 PM  Y90-PET vs Y90-Bremstrahlung SPECT
  Stephan WALRAND (UCL, Brussels)

2:30-3:00 PM  Precision of pre-SIRT predictive Dosimetry
  Hugo LEVILLAIN (IJB, Brussels)

3:00-3:30 PM  Hepatic Scintigraphy for Liver Function reserve pre-SIRT
  Marnix LAM (UMC Utrecht)

3:30 PM  Coffee Break

4:00-4:30 PM  How to organize a Clinical Theranostics Trial?
  Julie GAYE (IJB, Brussels)
Thursday October 5, 2017

Thyroid Cancer

9:00-10:30 AM

- Current Guidelines related to I131-Therapy
  François JAMAR (UCL, Brussels)

- Recurrent differentiated Thyroid Cancer: towards personalized Treatment based on Evaluation of Tumor Characteristics with PET
  Andreas BOCKISH (Essen Univ., Germany)

- Oncology: new Developments in targeted Treatments
  Giuseppe COSTANTE (IJB, Brussels)

10:30 AM  Coffee Break

11:00 - 12:30 PM

- Dosimetry: Guidelines and Case Study
  Bruno VANDERLINDEN (IJB, Brussels)
  Silvano GNESIN (CHUV, Lausanne)

- Dosimetry: clinical Considerations
  Pierre BOURGEOIS (IJB, Brussels)

- Clinical Controversies / Round Table Discussion / Cases / Questions from the Audience
  Moderator: Rodrigo MORENO-REYES (Erasme Hospital, Brussels)

12:30 PM  LUNCH

2:00-4:30 PM  Theranostics Applications of radiolabeled Antibodies:

- Radio-immunotherapy in Lymphoma to be confirmed
- Radiopharmacy of Antibody Radiolabeling
  Zéna WIMANA (IJB, Brussels)
- Use of radiolabeled Abs as Theranostics
  Liesbeth DE VRIES (UMCG, Groningen)
- Radiolabeled Antibodies in Breast Cancer
  Géraldine GEBHART (IJB, Brussels)

6:00 PM  MEET THE INDUSTRY tbc
  Hotel Manos, Brussels

8:00 PM  CONGRESS DINNER
  Hotel Manos Restaurant, Brussels
FRIDAY October 6, 2017

Bone Metastasis

9:00 - 10:30 AM
- Molecular Imaging of Bone Metastasis Hojjat AHMADZADEH FAR (University, Bonn)
- B-emitting Radionuclides: Sr-Sm-Rh Francesco CICONE (Milano, Italy)
- Multidisciplinary Treatment of Bone Metastasis to be confirmed

10:30 – 11:00 AM Coffee Break

11.00 - 12:30 PM
- Alpha-emitting Radionuclides: Ra-223 Karolien GOFFIN (UZ Leuven, Belgium)
- The Evolution of PSMA PET/CT Imaging with different Ligands, the Heidelberg Experience Frederik GIESEL (Heidelberg Univ., Germany)

12:30 PM LUNCH

Prostate Cancer:

2:00-4:00 PM
- 68Ga PSMA versus 18F-PSMA PET/CT Imaging in Prostate Cancer Frederik GIESEL (Heidelberg University, Germany)
- Molecular Imaging of Prostate Cancer Carlos ARTIGAS (IJB, Brussels)
- PSMA targeted Radionuclide Therapy Hojjat AHMADZADEH FAR (Univ. Bonn)
- Roundtable Discussion Moderator: Patrick FLAMEN (IJB, Brussels)

4:00 PM Coffee Break

4:30-5:00 PM Post-Course Knowledge Evaluation IAEA-participants

5:00 PM CLOSING CEREMONY