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

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 AHMADZADEHFAR (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 to be confirmed
- 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 AHMADZADEHFAR (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