

*Düsseldorf, Germany*

## **CME 14 (Physics / Dosimetry)**

**Wednesday, October 17, 10:00-11:30**

### **Session Title**

**Quantitative Multimodality Imaging**

### **Chairpersons**

Stephan Nekolla (Munich)

Hugo de Jong (Utrecht)

### **Programme**

10:00 - 10:25 Brian Hutton (London): Advances in SPECT/CT Quantitation

10:25 - 10:45 Dimitris Visvikis (Brest): Advances in PET/CT Quantitation

10:45 - 11:05 Bernhard Sattler (Leipzig): Advances in PET/MRI Quantitation

11:05 - 11:30 Yuni Dewaraja (Ann Arbor): Advances in Radionuclide Image Based Dosimetry

### **Educational Objectives**

1. Learn the recent major advances in multimodality image quantitation
2. Identify clinical applications that will benefit mostly from these recent major advances in multimodality image quantitation

### **Summary**

Although diagnosis is currently the predominant application of multimodality imaging, therapy response monitoring, assessment and dosimetry are increasingly gaining ground. A prerequisite for these applications is image quantitation, which concerns all of the current clinically available multimodality imaging devices, including PET/CT, SPECT/CT and PET/MRI. The objective of this session is to provide an up to date view of recent advances in quantitative multimodality imaging and the applications mostly impacted by these developments.

### **Key Words**

Image quantitation, dosimetry, PET/CT, SPECT/CT, PET/MRI