

## **Joint Symposium 2**

Translational Molecular Imaging and Therapy + Drug Development + Radiopharmacy + Oncology & Theranostics Committee / World Molecular Imaging Society (WMIS)

**Thursday, October 22, 13:30-15:00**

## **Session Title**

**Nano- and Micro-Particles in Nuclear Medicine (Incl. Radioembolisation)**

## **Chairperson**

Jan Grimm (New York, United States of America)

## **Programme**

13:30 - 13:59 Twan Lammers (Aachen, Germany / WMIS): Introduction to Nanoparticles in Medicine

13:59 - 14:28 Tessa Buckle (Leiden, Netherlands): Nanocolloids in Theranostics

14:28 – 14:57 Moritz Wildgruber (Münster, Germany): Radioembolization with Microparticles

## **Educational Objectives**

1. Understand characteristics of nano and microparticles and their in vivo behavior
2. Understand how these particles are synthesized
3. Understand where particles are used for in nuclear medicine, both imaging and therapy

## **Summary**

In this joint session with WMIS, we will provide an overview on the utilization of particles (nano and micro sized) in Nuclear medicine and medicine in general. We will start with an overview of principles and past as well as current utilization in medicine, drug delivery in combination with imaging. This will be followed by examples how to use clinically applicable nano- and microparticles in theranostics for imaging and radioembolization, using various radiolabeled particles.

## **Key Words**

Radioembolization, nanoparticles, microparticles, theranostics, oncology