



CTE 6

Technologists Committee + TMI&T Committee

Tuesday, October 20, 08:00–09:30

Session Title

Behind the Scenes in Translational Nuclear Medicine

Chairpersons

Marta Coelho (Essen, Germany)

Ângelo Cardoso (Bern, Switzerland)

Programme

08:00–08:30 **Tessa Buckle** (Leiden, Netherlands): The Bridge Between Research and Patient Care in Nuclear Medicine

08:30–09:00 **Lennard Wendlinger** (Tübingen, Germany): Keeping Research Safe: Regulatory Insights for Translational Nuclear Medicine

09:00–09:30 **Maria Rosaria Ruggiero** (Rome, Italy): How NMTs Turn Research into Clinical Reality

Educational Objectives

1. The Workflow of Translational Nuclear Medicine: how a study moves from the lab to the patient, preclinical testing, challenges in translating research, and collaboration among a multidisciplinary team.
2. Regulatory and Safety Aspects in Translational Research: radiation safety standards in clinical trials, good laboratory practices, quality control and standardization of novel radiopharmaceuticals, and differences between Good Research Practices (GRP) and Good Manufacturing Practice (GMP).
3. Role of the Technologist in Translational Nuclear Medicine: multidisciplinary collaboration, ethical and study set-up differences between lab and clinic, patient management in translational studies, and success stories of tracers that reached clinical practice.

Summary

Translational Nuclear Medicine is the field that bridges laboratory research and clinical application in nuclear medicine. It focuses on developing and testing new radiopharmaceuticals, imaging techniques, and therapeutic isotopes in preclinical models, and then translating successful innovations into patient care.

Key Words

Translational Nuclear Medicine, Laboratory, Radiopharmaceuticals, Research and Clinical Application