CME Session 4
Neuroimaging + Radiopharmacy Committee
Wednesday, October 20, 18:00-19:30

Session Title
Imaging Neuroinflammation - Everything You Always Wanted to Know, But Were Afraid to Ask

Chairperson
Bart van Berckel (Amsterdam, Netherlands)

Programme
18:00 - 18:29  Matthias Brendel (Munich, Germany): Background of TSPO and Non-TSPO Targets and Their Radiotracers
18:29 - 18:58  Bart van Berckel (Amsterdam, Netherlands): Imaging Neuroinflammation with TSPO Ligands - A Critical Reappraisal
19:27 - 19:30  Session Summary by Chairperson

Educational Objectives
1. Identify different targets for imaging neuroinflammation
2. Identify validated TSPO tracers and tracers for other targets
3. Critically assess the quality of current neuroinflammation literature

Summary
Imaging neuroinflammation has been an active research area in nuclear medicine for several decades but proves to be very difficult. In the past few years, a multitude of new neuroinflammation tracers has been published but validation differs substantially between tracers. This session will provide a review of established and new targets for neuroinflammation imaging and a critical assessment of tracers for these targets.

Key Words
TSPO, P2X7, quantification, microglia, astrocytes, tracer kinetic modelling