

Joint Symposium 1

Drug Development Committee / European Federation for Medicinal Chemistry (EFMC)

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

Session Title

Imaging Neuroinflammation

Chairperson

Donatienne van Weehaeghe (Leuven, Belgium)

Programme

13:30 - 13:36 Donatienne van Weehaeghe (Leuven, Belgium): Introduction Talk

13:36 - 14:04 Albert Windhorst (Amsterdam, Netherlands / EFMC): Target Identification and Tracer Design and Development

14:04 - 14:32 Andreas Jacobs (Münster, Germany): Clinical Directions for Neuroinflammation Imaging

14:32 - 15:00 Koen Van Laere (Leuven, Belgium): Clinical Trials of P2X7 Targeted Radiotracers

Educational Objectives

1. Improve understanding of the current challenges associated with imaging neuroinflammation
2. Critical appraisal of new radiotracers for imaging neuroinflammation and challenges associated with their design
3. Discuss prospects for further clinical integration of imaging strategies to aid patient treatment

Summary

Neuroinflammation is a key process linked to pathologies such as neurodegeneration and ischemia. Detection and monitoring of neuroinflammation is inherently difficult because of the location, restricting use of invasive diagnostic sampling techniques. Positron Emission Tomography (PET) molecular imaging represents a unique tool with application to in vivo investigation of neuroinflammatory processes in patients. The last decade has heralded a spree of development of new PET tracers targeting inflammation biomarkers, this session aims to discuss recent advances in this field, future application to patient management and experiences of clinical trials with new agents in this area.

Key Words

Neuroinflammation, neurodegeneration, Alzheimer's, target design, target identification