



Special Track Session 6

Neuroimaging Committee

Monday, October 21, 09:45 - 11:15

Session Title

Round Table: Molecular Imaging of Brain Connectivity

Moderators

Silvia Morbelli (Turin, Italy)

Igor Yakushev (Munich, Germany)

Arianna Sala (Liege, Belgium): Brain PET imaging 2.0: how can molecular imaging capture brain connectivity?

Alexander Drzezga (Cologne, Germany): Disease-specific patterns of brain dysconnectivity

Jorge Sepulcre (Charlestown, United States of America): Establishing causal spreading of tau and amyloid with molecular imaging

Educational Objectives

1. To learn how molecular imaging can be used to study brain connectivity
2. To discuss how this connectivity information can improve understanding of disease mechanisms
3. To debate about clinical applications in neurodegenerative disorders

Summary

Molecular imaging has been increasingly utilized to study brain connectivity in health and disease. The first part of this round table session will deal with basics of estimation and interpretation of so called molecular connectivity. In the following parts, the speakers, moderators, and the audience will discuss how molecular connectivity, alone and with MRI-based techniques, can be effectively applied to address mechanisms and diagnosis of neurodegenerative disorders.

Key Words

PET; functional connectivity; networks; proteinopathies