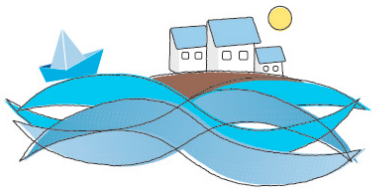

Mediterranean Thematic Workshops in Advanced Molecular Imaging

Contribution ID: **20** Type: **Invited**

Preclinical imaging to understand brain function

Monday 5 September 2022 17:10 (30 minutes)

Simultaneous positron emission tomography (PET)/magnetic resonance imaging (MRI) allows the study of molecular and functional processes in the living brain and their spatial and temporal correlation. Our goal is to develop and apply protocols and methods to evaluate molecular changes in receptor and neurotransmitter concentrations by PET and hemodynamic changes by BOLD-fMRI to exploit the complementarity of both modalities for a better understanding of neurological diseases as well as for the development of new treatment strategies. To this end, we are using different rat models and genome engineering technologies targeting specific genes, proteins, and signaling pathways in the brain.

Topic Selection

Presenter: HERFERT, Kristina

Session Classification: Neuroinflammation and Preclinical

Track Classification: Preclinical