Contribution ID: 22

Type: not specified

Cytoarchitectonic mapping of the human olfactory tubercle and terminal islands

Wednesday 21 September 2022 11:50 (20 minutes)

The olfactory tubercle and terminal islands are part of the basal forebrain, a brain area characterized by great structural heterogeneity. The connectivity and function of the olfactory tubercle have been evaluated using diffusion imaging and fMRI, however the precise boundaries within 3D space are still not clarified (Zelano et al., 2007; Echevarria-Cooper et al., 2022). In addition, it is particularly challenging to study these aspects of terminal islands due to their small size, complex shape and scattered arrangement in the basal forebrain (Meyer et al., 1989). Therefore, we have generated cytoarchitectonic maps of the olfactory tubercle and terminal islands in order to determine their localization in the stereotaxic space and intersubject variability. Moreover, we provided a 3D reconstruction of the Great Terminal Island (GTI) in the BigBrain, to define its anatomical features.

Presenter:POLEKSIC, Joko (University of Belgrade, Institute of Anatomy Niko Miljanic)Session Classification:Young Researchers Session