

# Superior parietal sulcus

The superior parietal [sulcus](#) (SPS) is the defining sulcus within the [superior parietal lobule](#) (SPL). The morphological variability of the SPS was examined in individual magnetic resonance imaging (MRI) scans of the [human brain](#) that was registered to the Montreal Neurological Institute (MNI) standard stereotaxic space. Two primary morphological patterns were consistently identified across hemispheres: (i) the SPS was identified as a single sulcus, separating the anterior from the posterior part of the SPL, and (ii) the SPS was found as a complex of multiple sulcal segments. These morphological patterns were subdivided based on whether the SPS or SPS complex remained distinct or merged with surrounding parietal sulci. The morphological variability and spatial extent of the SPS were quantified using volumetric and surface spatial probabilistic mapping. The current investigation established consistent morphological patterns in a common anatomical space, the MNI stereotaxic space, to facilitate structural and functional analyses within the SPL <sup>1)</sup>.

<sup>1)</sup>

Drudik K, Zlatkina V, Petrides M. Morphological patterns and spatial probability maps of the superior parietal sulcus in the human brain. *Cereb Cortex*. 2022 Apr 7:bhac132. doi: 10.1093/cercor/bhac132. Epub ahead of print. PMID: 35388402.

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