

Knowledge of the encephalon anatomy is crucial for neurosurgical practice, especially the main cortical functional structures and their connections. General organisation of the encephalon is presented with [frontal lobe](#), [parietal lobe](#), [occipital lobe](#), [temporal lobe](#), limbic and [insular lobes](#) and their Brodmann correspondence. Secondly, subcortical anatomy will be presented with main white matter fasciculi in three separated categories: association, commissural and projection fibers. Main association fibers are inferior occipitofrontal fasciculus, superior longitudinal fasciculus, arcuate fasciculus, inferior longitudinal fasciculus, uncinate fasciculus, and cingulum. [Commissural fibers](#) include [anterior commissure](#), [corpus callosum](#) and [fornix](#). Projection fibers are [internal capsule](#) and [optic radiations](#) ¹⁾.

¹⁾

Chenin L, Lefranc M, Velut S, Foulon P, Havet E, Peltier J. Cortical and subcortical functional neuroanatomy for low-grade glioma surgery. Neurochirurgie. 2017 May 12. pii: S0028-3770(17)30002-4. doi: 10.1016/j.neuchi.2016.10.001. [Epub ahead of print] Review. PubMed PMID: 28506483.

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