

Cuneus

The cuneus is a smaller lobe in the [occipital lobe](#) of the brain. The cuneus is bounded anteriorly by the [parietooccipital sulcus](#), inferiorly by the calcarine sulcus.

The cuneus (Brodmann area 17) receives visual information from the same-sided superior quadrant of retina (corresponding to contralateral inferior visual field). It is most known for its involvement in basic visual processing. Pyramidal cells in the visual cortex (or striate cortex) of the cuneus, project to extrastriate cortices (BA 18,19). The mid-level visual processing that occurs in the extrastriate projection fields of the cuneus are modulated by extraretinal effects, like attention, working memory, and reward expectation.

In addition to its traditional role as a site for basic visual processing, gray matter volume in the cuneus is associated with better inhibitory control in bipolar depression patients.

Pathologic gamblers have higher activity in the dorsal visual processing stream including the cuneus relative to controls.

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