

auditory-perception.ga

Description

The **primary auditory cortex** is the part of the [temporal lobe](#) that processes auditory information in humans and other [vertebrates](#). It is a part of the [auditory system](#), performing basic and higher functions in [hearing](#), such as possible relations to language switching.^{[1][2]}

It is located bilaterally, roughly at the upper sides of the [temporal lobes](#) – in humans on the superior temporal plane, within the [lateral fissure](#) and comprising parts of [Heschl's gyrus](#) and the [superior temporal gyrus](#), including [planum polare](#) and [planum temporale](#) (roughly [Brodmann areas 41, 42](#), and partially [22](#)).^{[3][4]} Unilateral destruction, in a region of the auditory pathway above the cochlear nucleus, results in slight hearing loss, whereas bilateral destruction results in cortical deafness.

Category

1. External Domains

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