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Damage to the temporal lobes can result in impaired auditory perception, difficulty understanding and producing language, and memory loss. The temporal lobes play an important role in organizing sensory input, auditory perception, language and speech production, as well as memory association and formation.

Since the landmark study of the globally amnesic patient H.M. by Scoville and Milner (1957), the essential role of the medial temporal lobes (MTL) in long-term memory has been well established. Publisher Summary This chapter focuses on the role of medial temporal lobe (MTL) structures—the hippocampus and surrounding parahippocampal, perirhinal, and entorhinal cortices—in memory processing and representation..

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The medial temporal lobe is located deep within the cortex of the brain. This portion of the cerebral cortex assists in the formation of several types of memory. The hippocampus is a part of this central section of the brain, which is involved in forming long-term memories, as well as orienting oneself in space.

What Is the Medial Temporal Lobe? (with picture)

The medial temporal lobe, including the hippocampus, plays a crucial role in mediating declarative memory, i.e. memory of personal events (episodic memory) and factual knowledge (semantic memory). The hippocampus serves as a final common pathway for other structures in the medial temporal cortex, such as the amygdala, parahippocampal and entorhinal cortices.

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The temporal lobe holds the primary auditory cortex, which is important for the processing of semantics in both speech and vision in humans. Wernicke's area, which spans the region between temporal and parietal lobes, plays a key role (in tandem with Broca's area in the frontal lobe) in speech comprehension.

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