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This chapter provides a succinct description of the entire mammalian central auditory system—an overview, before we embark on the specific, highly detailed chapters which follow. It also emphasizes what is known of the structure of the human central auditory pathways, including how they are similar and how dissimilar to those of other mammals.

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The Mammalian Auditory Pathway

The auditory pathway conveys the special sense of hearing. Information travels from the receptors in the organ of Corti of the inner ear (cochlear hair cells) to the central nervous system, carried by the vestibulocochlear nerve (CN VIII). This pathway ultimately reaches the primary auditory cortex for conscious perception.

The Auditory Pathway - Structures of the Ear - Auditory ...

Auditory pathway. The external ear/pinna funnels sound waves

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into a unidirectional wave, and is able to direct it into the auditory canal. This sound then reaches the tympanic membrane, and causes it to vibrate. The louder the sound the bigger the vibration, the lower pitch the sound the slower the vibration.

Auditory pathway: Anatomy, ear structures, transduction

...

The mammalian auditory system is challenged with the task of accurately encoding the pattern and source of incoming sound. Many of the initial steps involved in the manipulation of acoustic information already have been well-characterized (Webster, 1992; Winer, 2005).

Drivers and Modulators in the Central Auditory Pathways

An overview of mammalian auditory pathways with an emphasis on humans / Douglas B. Webster --The auditory nerve :

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The Mammalian Auditory Pathway: Neuroanatomy - Douglas B ...

In the mammalian brain, auditory information is known to be processed along a central ascending pathway leading to auditory cortex (AC). Whether there exist any major pathways beyond this canonical auditory neuraxis remains unclear.

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A Non-canonical Reticular-Limbic Central Auditory Pathway ...

The primary auditory cortex is surrounded by secondary auditory cortex, and interconnects with it. These secondary areas interconnect with further processing areas in the superior temporal gyrus, in the dorsal bank of the superior temporal sulcus, and in the frontal lobe.

Auditory system - Wikipedia

There is a collection of tracts that connects the cochlea to primary auditory cortex, known as the central auditory pathway. It passes through the major subcortical areas, which are characterized by groups of neurons known as nuclei, the plural of nucleus.

Central auditory pathway — Brain & language

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The spiral (cochlear) ganglion is a group of neuron cell bodies in the modiolus, the conical central axis of the cochlea. These bipolar neurons innervate the hair cells of the organ of Corti. They project their axons to the ventral and dorsal cochlear nuclei as the cochlear nerve, a branch of the vestibulocochlear nerve (CN VIII).

Spiral ganglion - Wikipedia

University of Colorado Anschutz Medical Campus. (2020, August 14). Hypothesis underlying the sensitivity of mammalian auditory system overturned. ScienceDaily. Retrieved September 11, 2020 from ...

Hypothesis underlying the sensitivity of mammalian ...

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