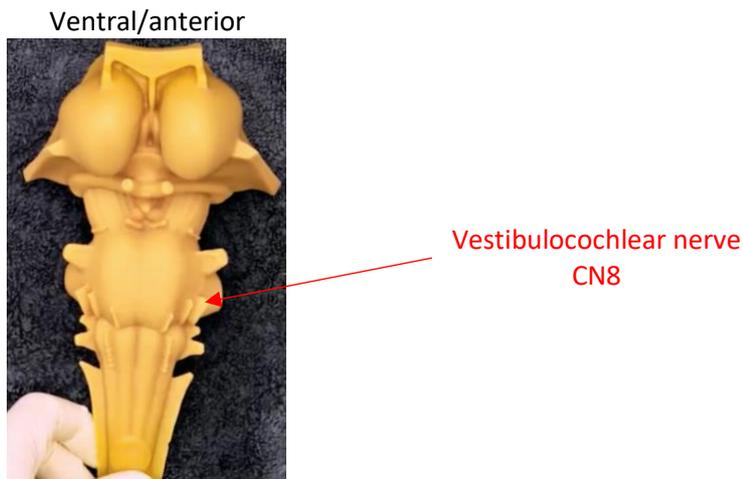
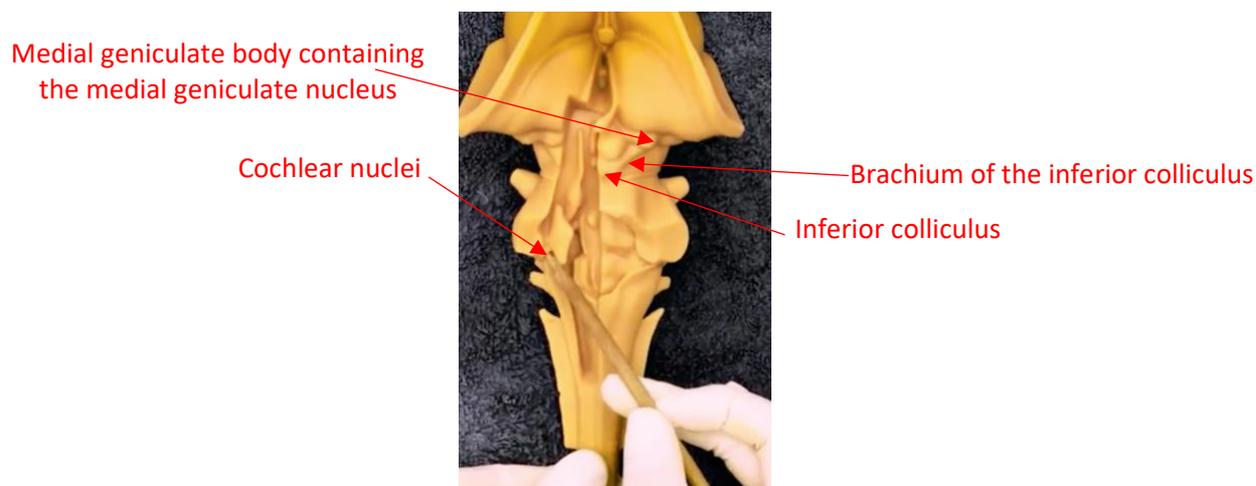


NEURO3005 TUTORIAL 3 – Seeing and Hearing

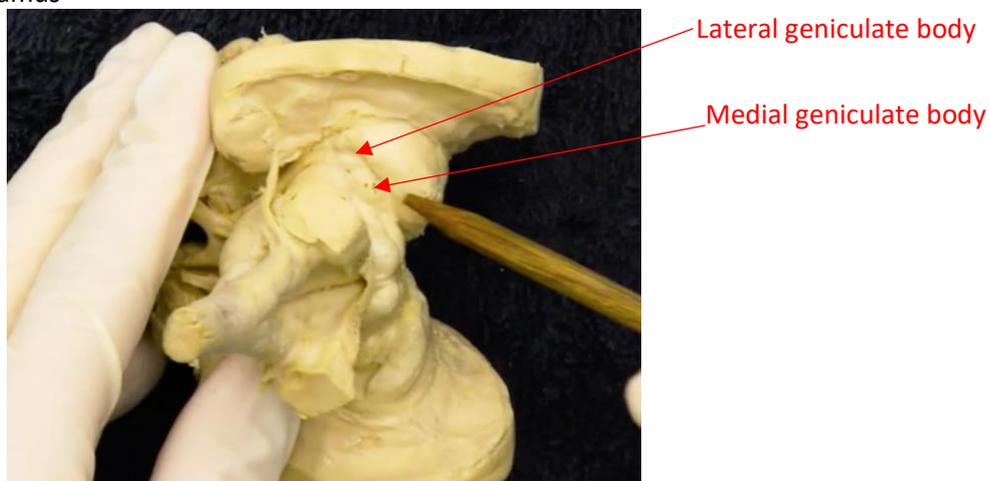
Auditory system



- The first central relay in the pathway is the **cochlear nuclei** found on the dorsolateral surface of the rostral medulla
- Additional relays in the brain stem where some fibres cross the midline such as the **trapezoid body, the superior olivary nucleus** and the **lateral lemniscus**



- The next large structure processing auditory signal is the **inferior colliculus**. It receives large auditory input from the lateral lemniscus
- From the inferior colliculus, those projections go through the **brachium of the inferior colliculus** to the **medial geniculate nucleus** located in the **medial geniculate body**, which is part of the thalamus



- Underneath the medial geniculate body is the medial geniculate nucleus
- The auditory signal transits towards the cortex from the medial geniculate nucleus through a fasciculus crossing the sublenticular part of the internal capsule

