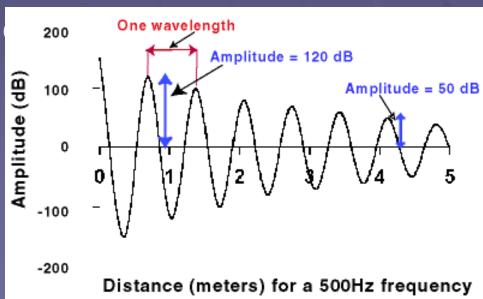
The Special Senses

3) Auditory

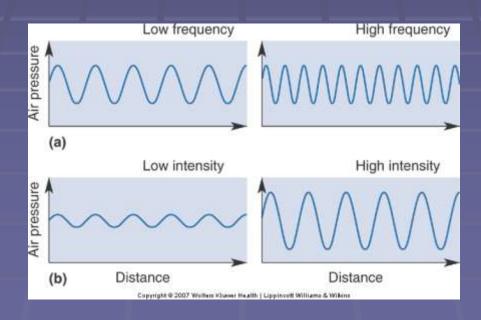
The Nature of Sound

- All waves have basic characteristics:
 - Amplitude
 - Frequency
 - Wavelength
- These properties have particular names with reference to sound
 - Amplitude = loudness
 - Frequency = pitch

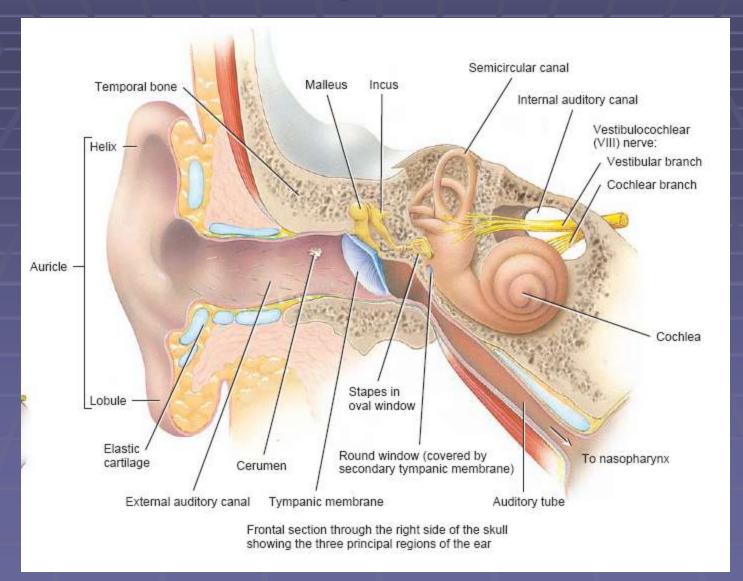


The Nature of Sound

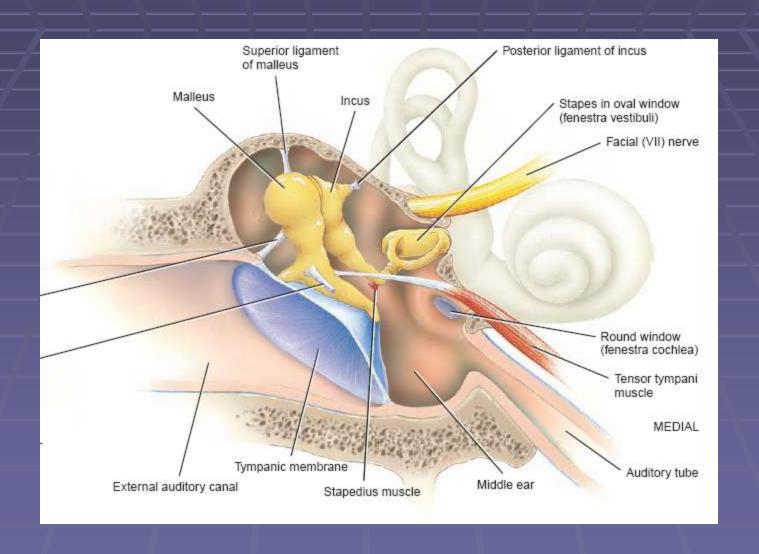
- Sound
 - Range: 20 Hz to 20,000 Hz
 - Pitch: High pitch = high frequency; low frequency = low pitch
 - Intensity: High intensity louder than low intensity

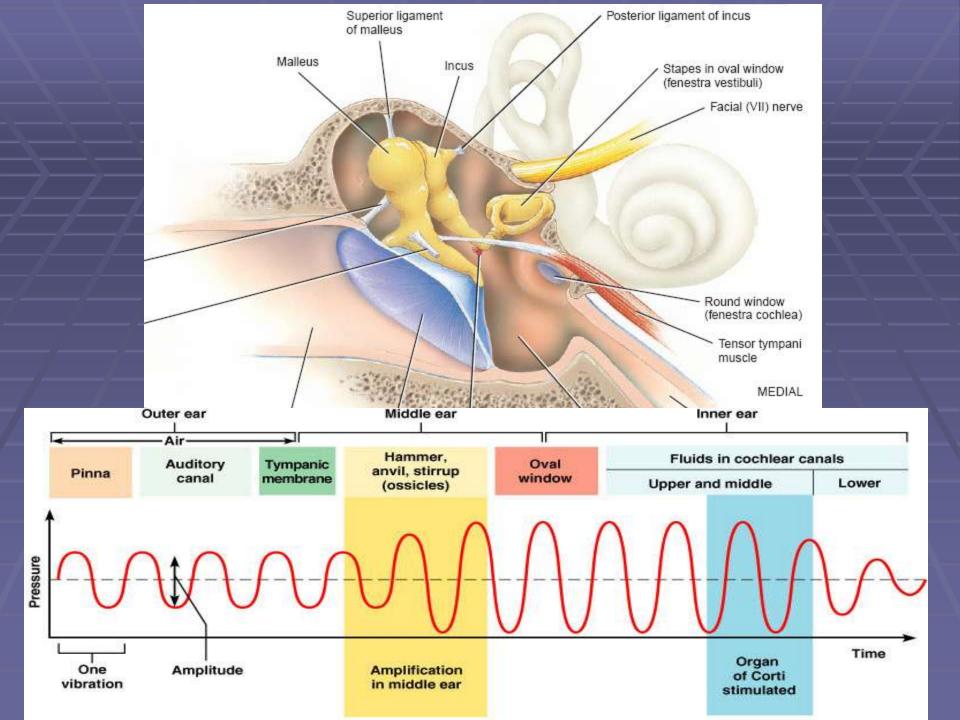


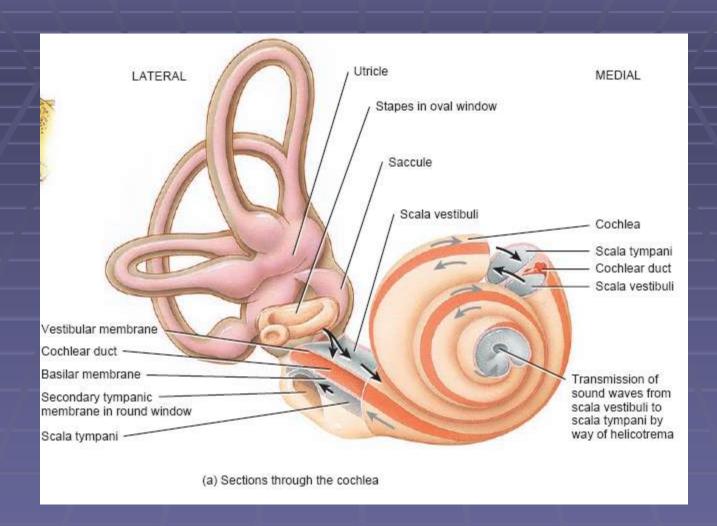
Anatomy of the ear

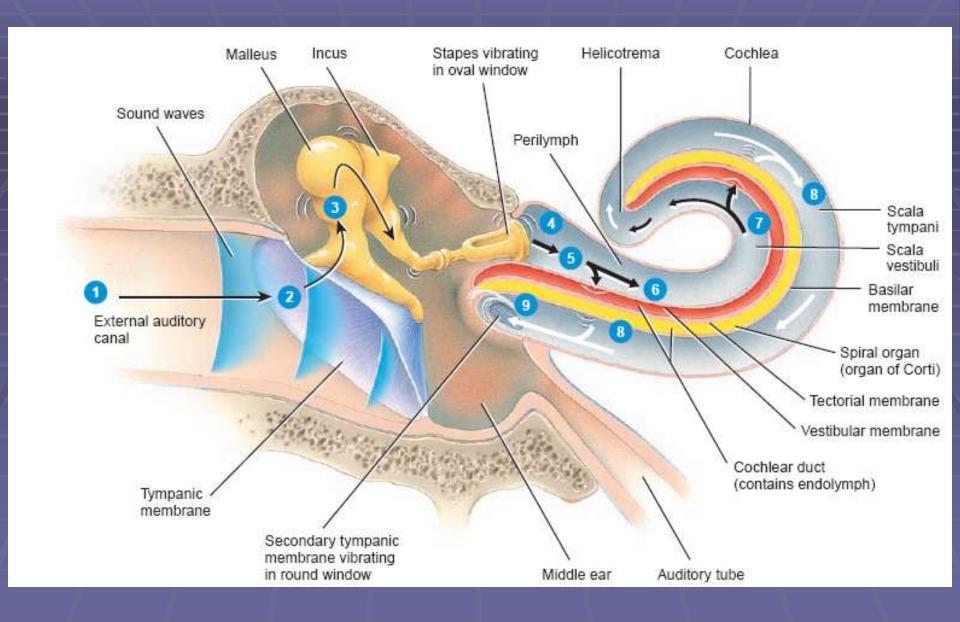


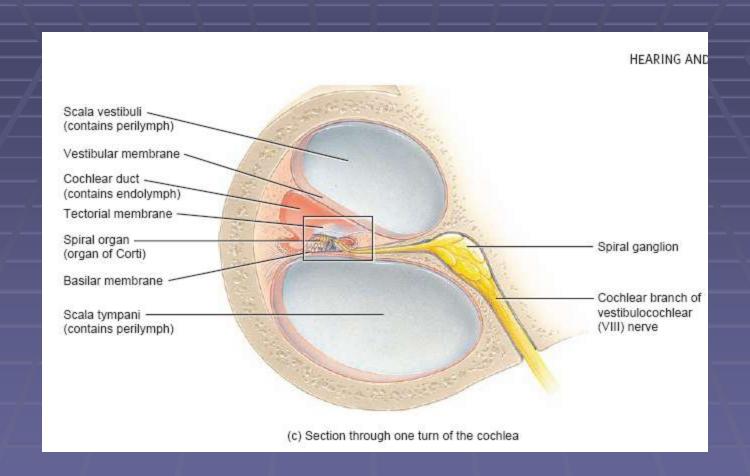
Anatomy of the ear



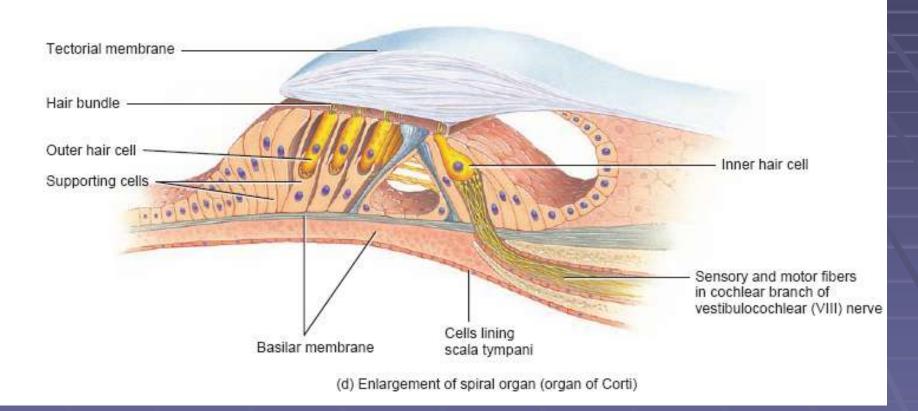


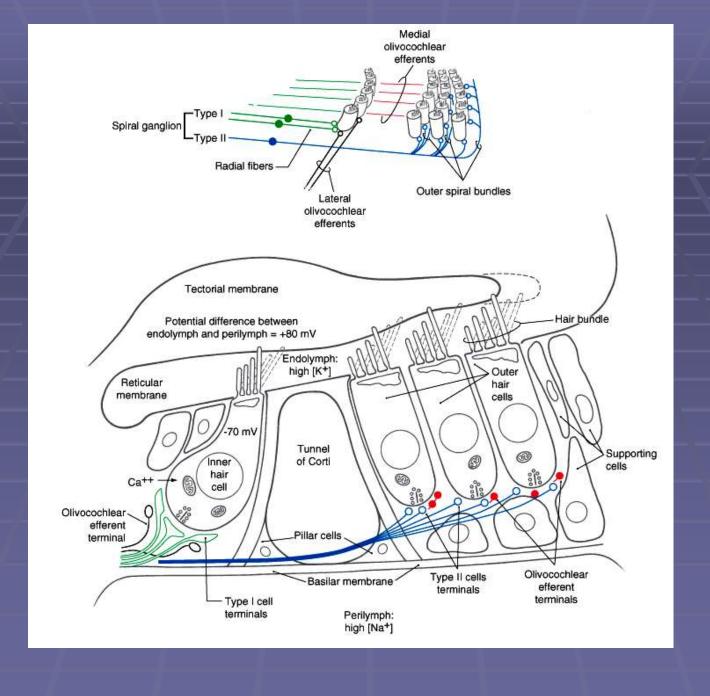


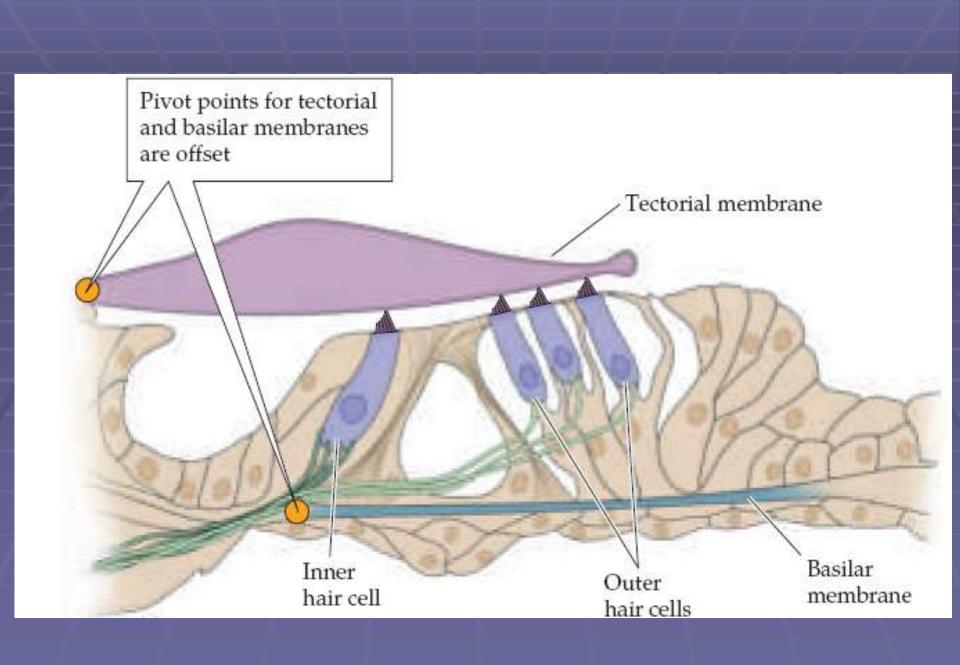


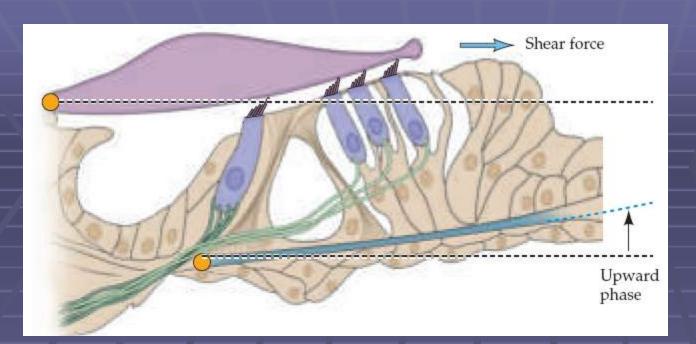


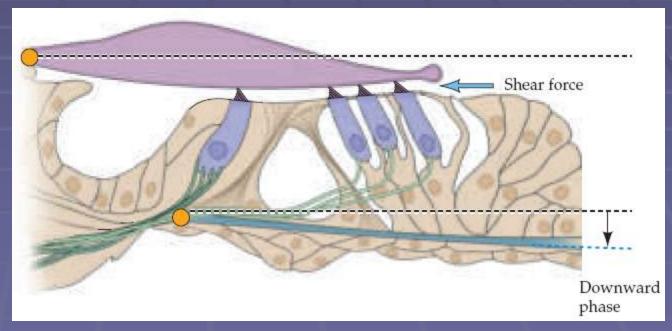
(c) Section through one turn of the cochlea

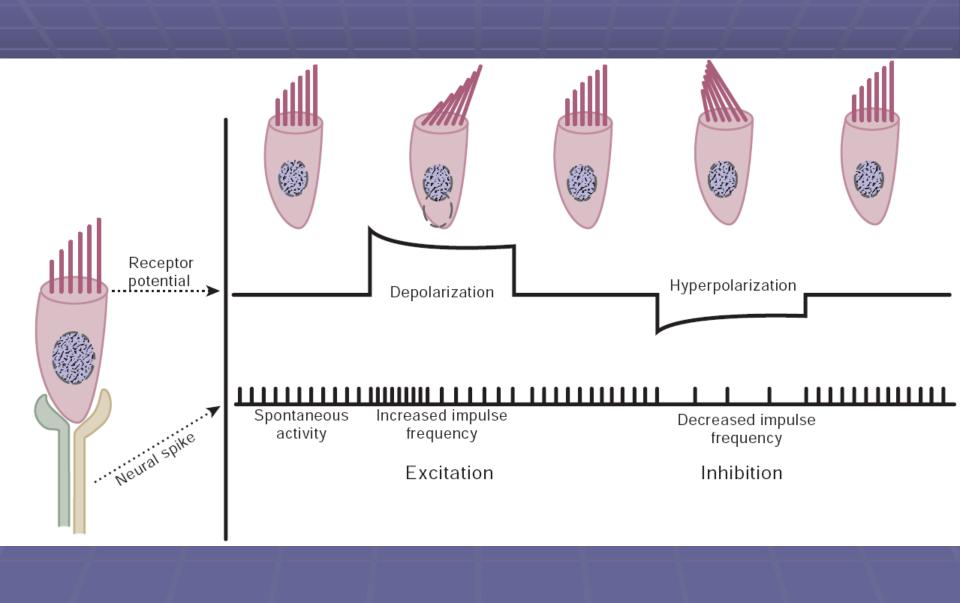


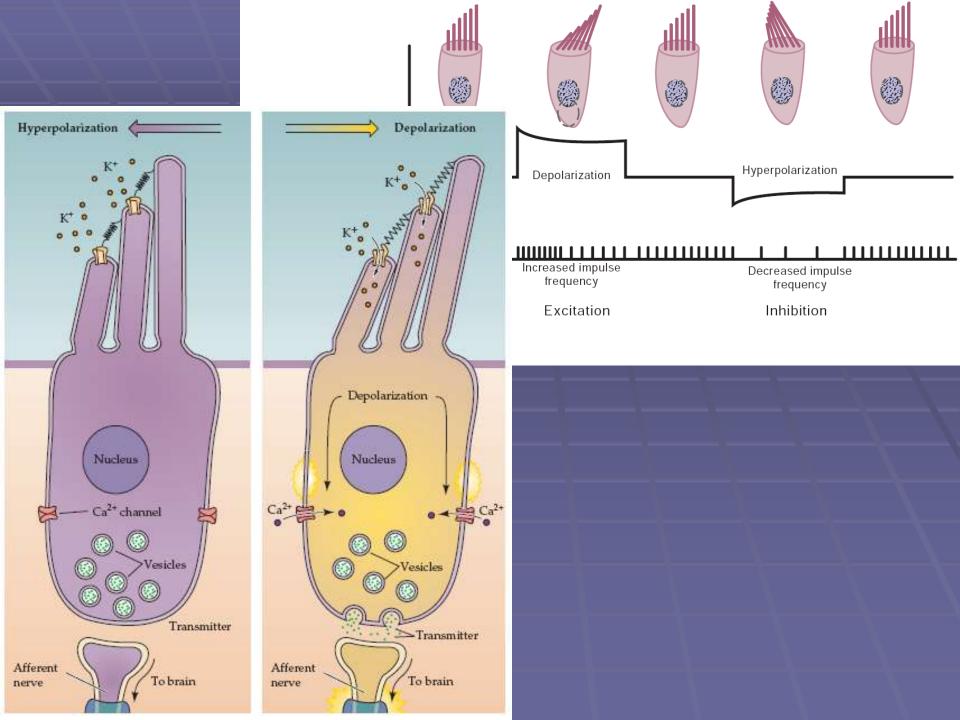


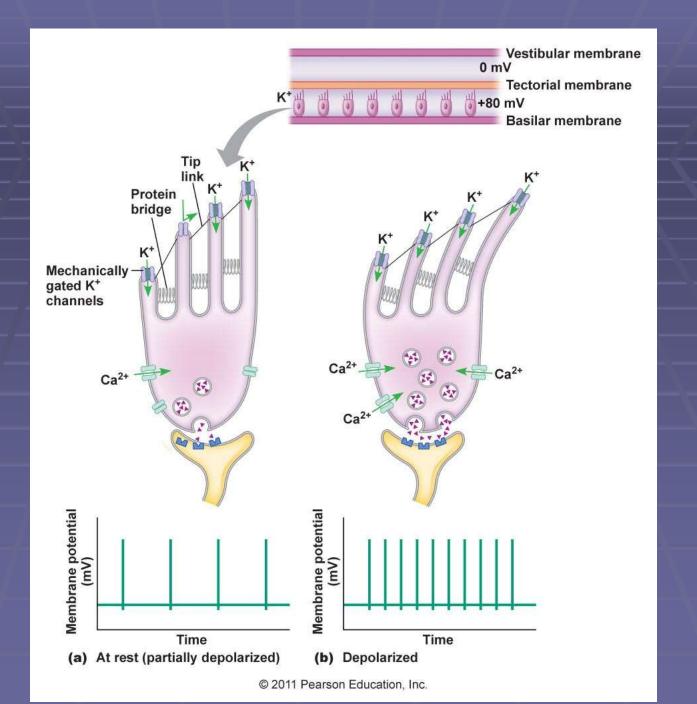


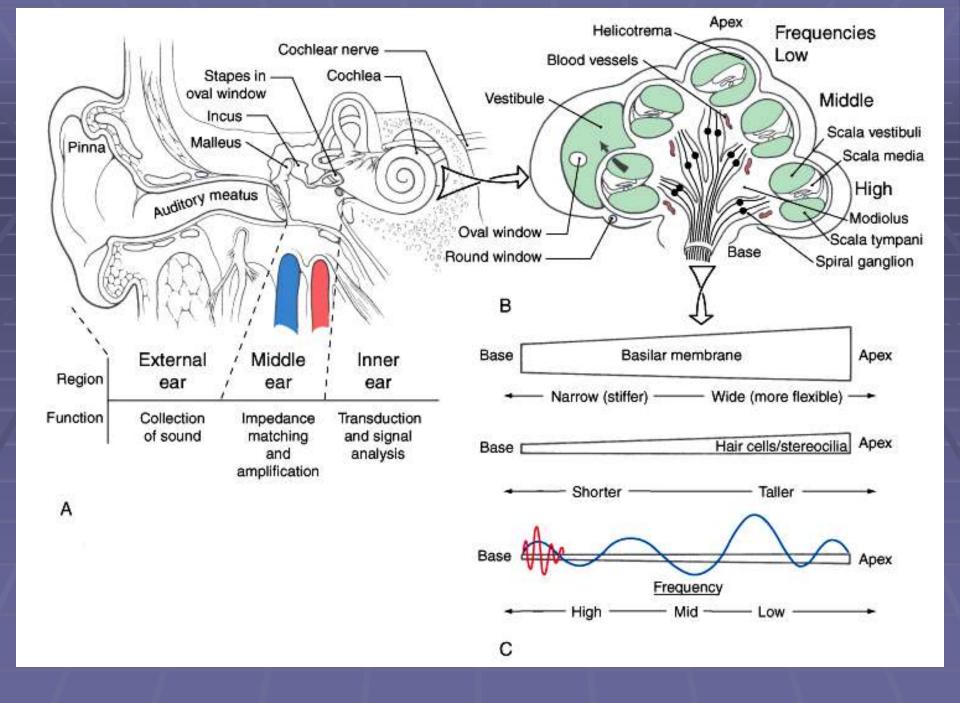


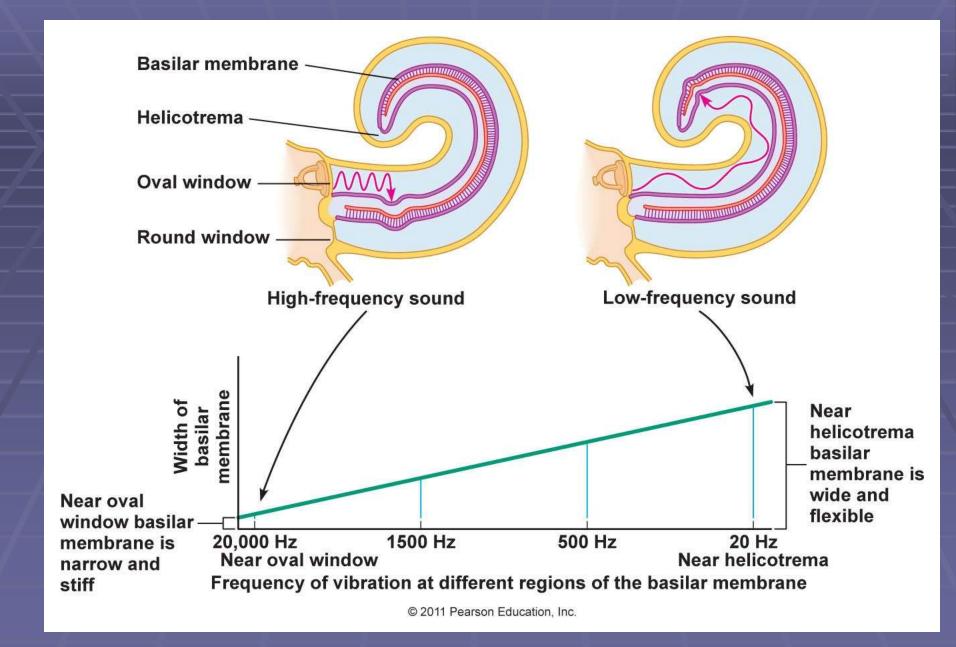


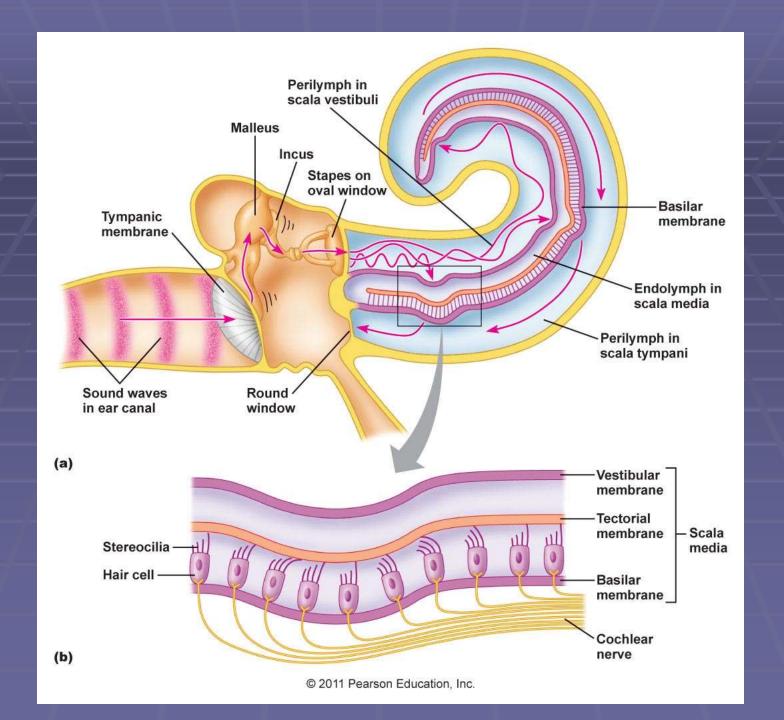


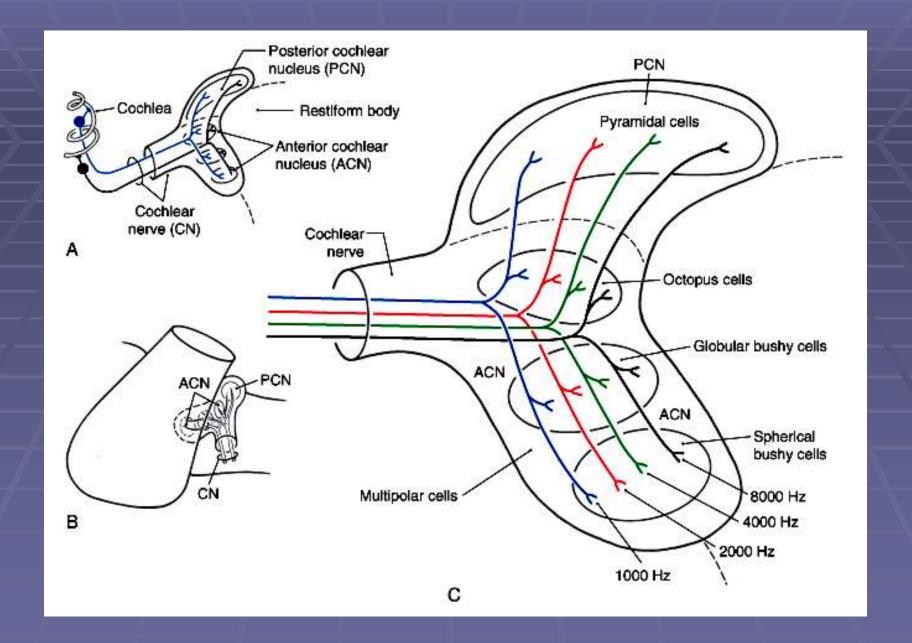






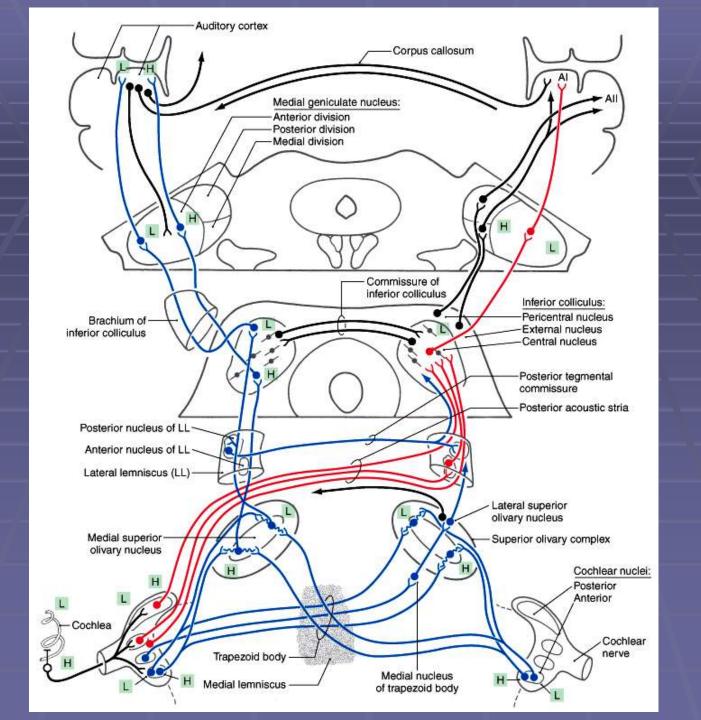


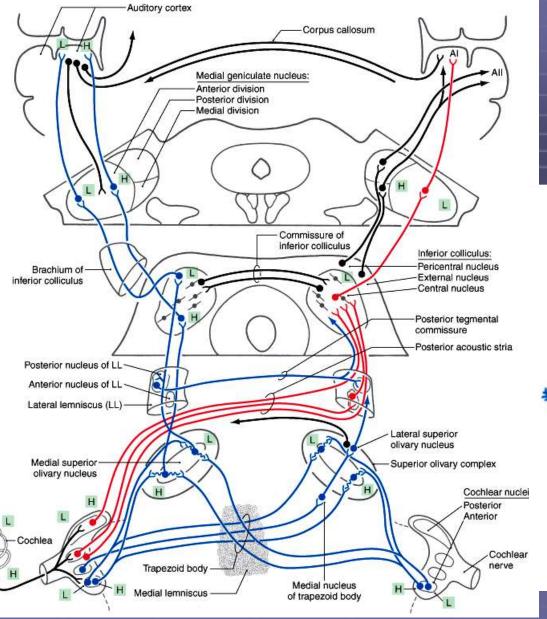


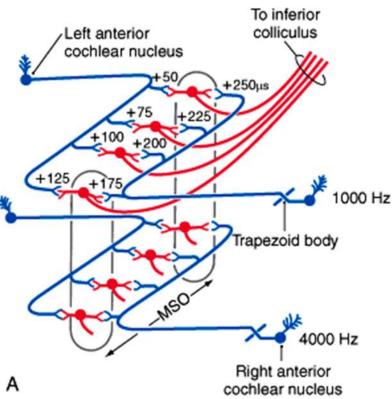


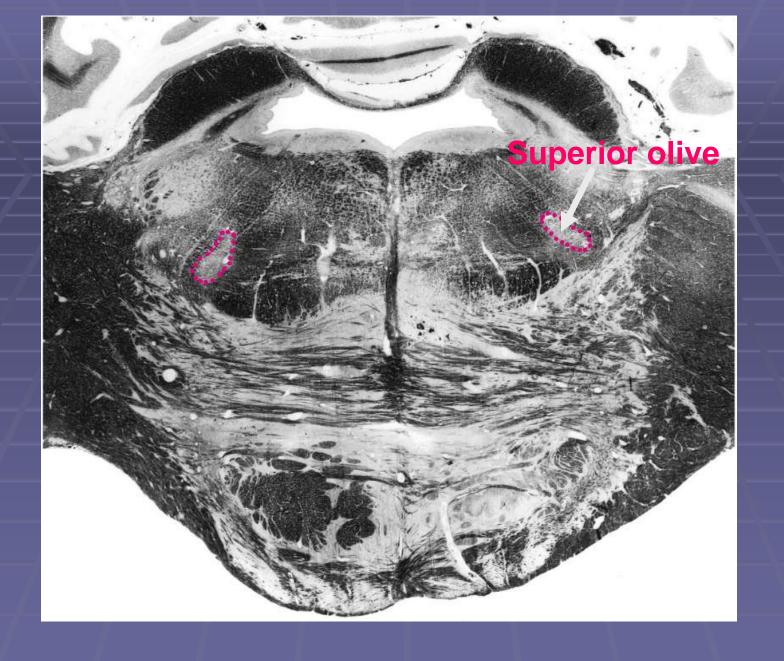


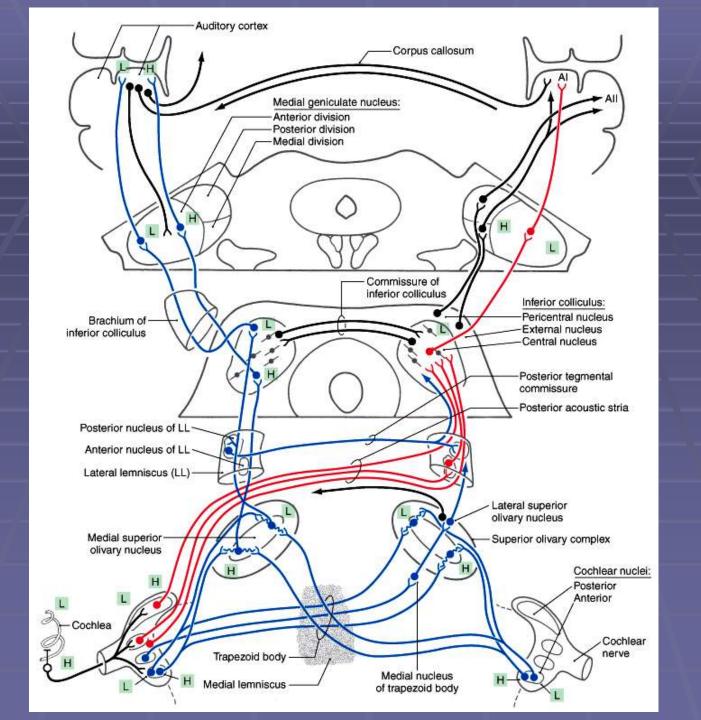


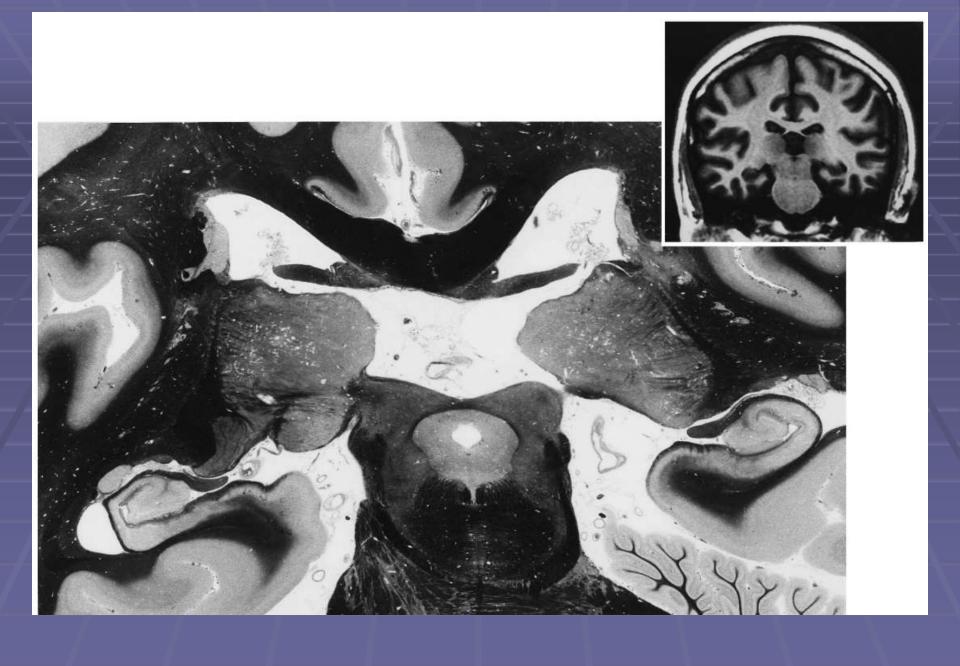


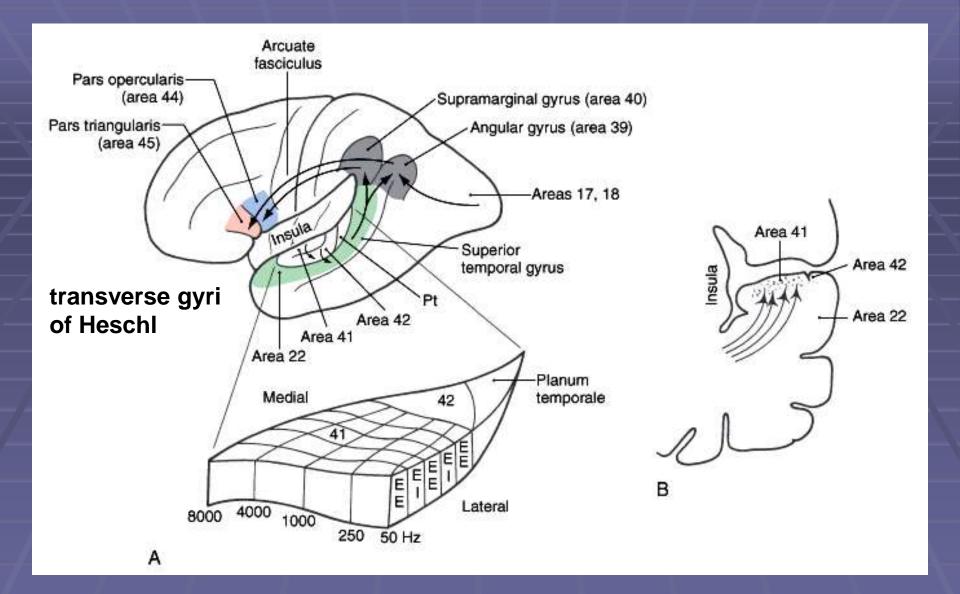


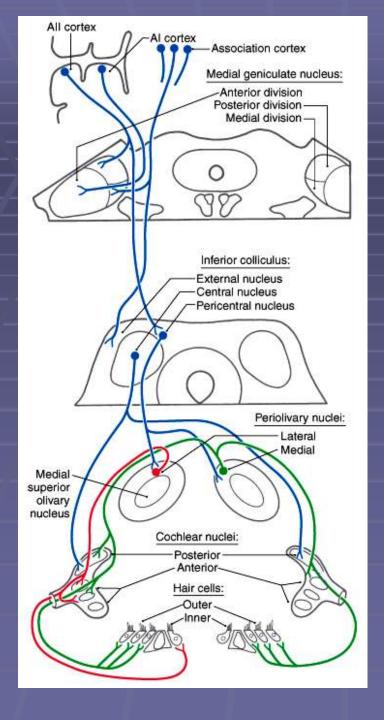












Olivocochlear descending feedback loop

