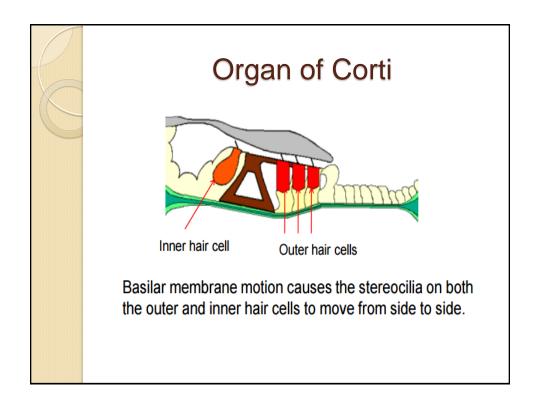
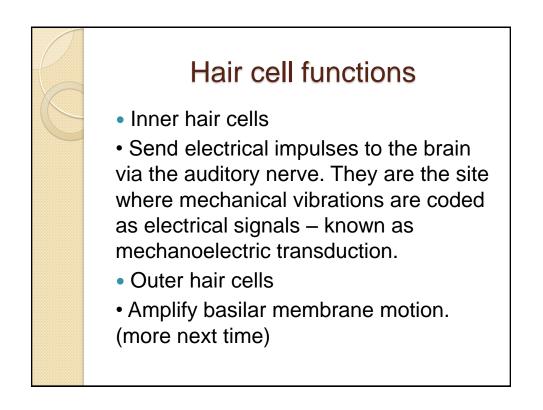
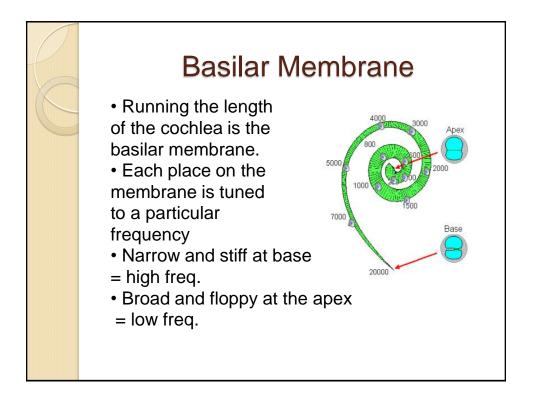
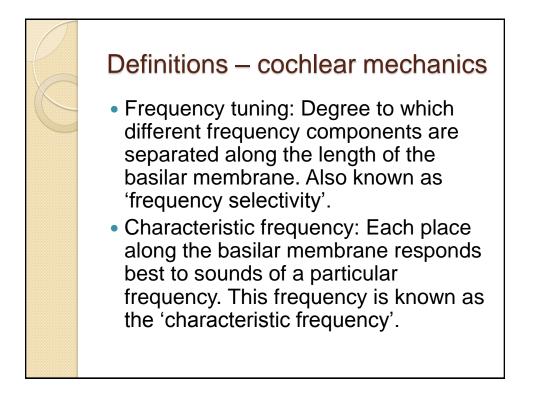


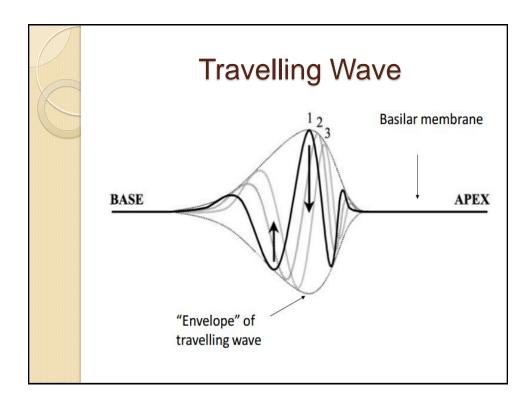
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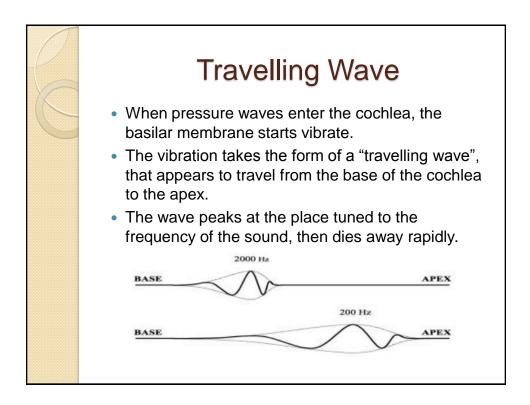






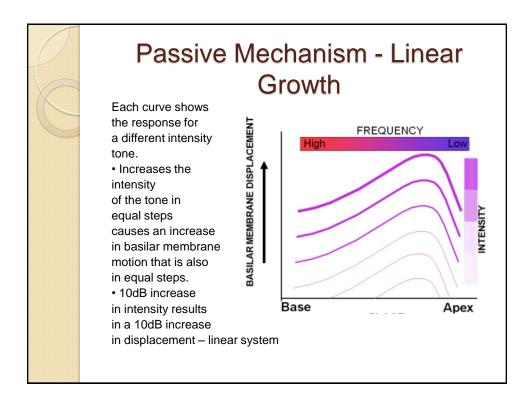






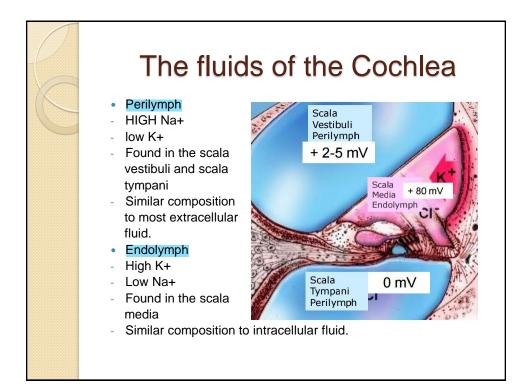
Passive Mechanism

- By studying corpse ears, we know that the passive mechanism results in the following basilar membrane properties:
- 1. Broad tuning and therefore poor frequency selectivity.
- 2. Insensitivity to low-level sounds.
- 3. Linear response growth.

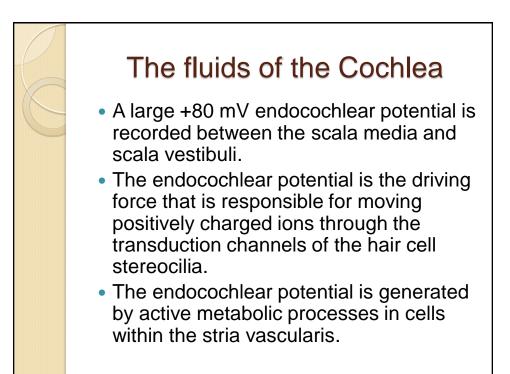


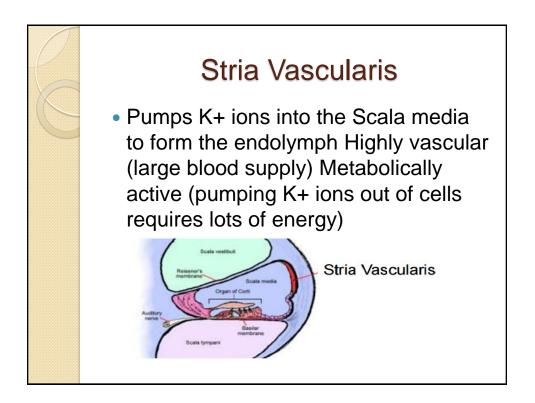
Measurements from healthy ears

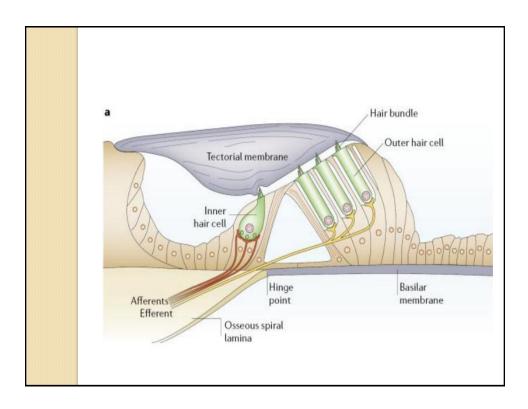
- Basilar membrane responses from healthy ears look different: – Sharper frequency tuning (especially at low levels) – Better sensitivity to low level sounds – Compressive growth
- This is because in healthy ears, there is an additional 'active' mechanism that operates. This mechanism is a result of the activity of outer hair cells.

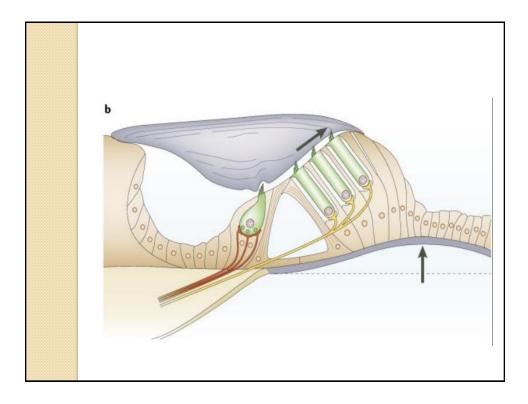


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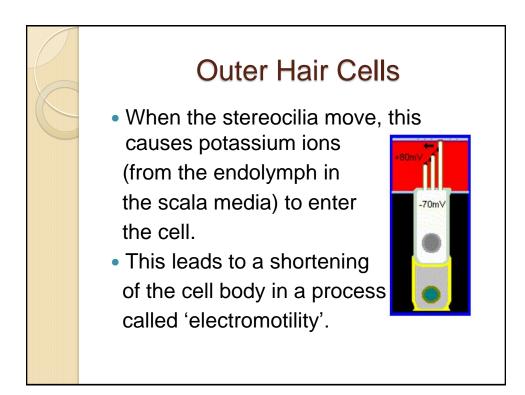


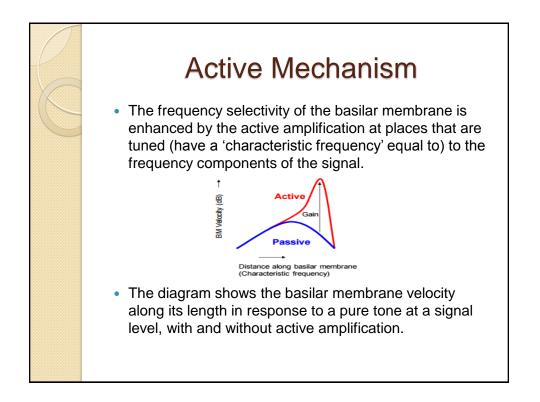




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