Deep brain stimulation in tinnitus

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Insights from the pathophysiology and mechanism of action

1. The lack of successful tinnitus treatment is partly due to the limited knowledge about the mechanisms underlying tinnitus. (*This thesis*)

2. Deep brain stimulation of the medial geniculate body is a potential therapy for tinnitus. (*This thesis*)

3. Noise trauma alters tissue activity in multiple brain areas including auditory and limbic regions. (*This thesis*)

4. The medial geniculate body acts as a filtering relay station in auditory stimulus processing. (*This thesis*)

5. Neurodegenerative and inflammatory processes in the medial geniculate body and inferior colliculus may underlie the neuropathology of tinnitus. (*This thesis*)

6. The reduced number of serotonergic cell bodies in tinnitus cases points toward a potential role of the raphe serotonergic system in tinnitus. (*This thesis*)

7. The variation between species in neuronal population cell types and the subjective nature of tinnitus stress on the importance of acquiring human data to understand tinnitus pathophysiology. (*This thesis*)

8. “The sound that no one else hears, the lonely struggle.”

9. «The best people are those who brings the most benefits for the rest of mankind” *Prophet Muhammad*

10. “Be the change you wish to see in the world.” *Mahatma Gandhi*

11. “The only impossible journey is the one you never begin.” *Tony Robbins*

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