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Wilhelm Wundt Room

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zoom: <https://eu02web.zoom-x.de/j/69116348377>

The effects of neural plasticity on outcomes in cochlear implant users: Speech perception and tinnitus perspectives

In this talk I will discuss different types of neural plasticity associated with cochlear implantation using high density electroencephalography (EEG). Intra- and cross-modal plasticity will be explored in the context of outcome measures after surgery. Our data suggests that cross-modal plasticity (visual stimulus that activates auditory cortex) can be related to both “positive” and “negative” speech perception ability, depending on when the EEG was taken. We also demonstrate altered cross-modal activation patterns in CI users who experience tinnitus suppression with their CI turned on versus those who have no tinnitus suppression.