Assessments of sound perception and brain activation in response to paired sound and electrical stimulation of surface ear regions

Status: Recruiting

Eligibility Criteria

Sex: Male or Female
Age Group: 18 years and over
This study is also accepting healthy volunteers

Inclusion Criteria:

- normal hearing or hearing loss with or without tinnitus - not users of Cochlear Implant or hearing aids

Conditions & Interventions

Conditions:
Ear, Nose & Throat
Keywords:
hearing loss, tinnitus, auditory plasticity, neuromodulation, transcutaneous electrical stimulation

More Information

Description: We are investigating how paired non-invasive electrical stimulation of surface body regions and sound changes sound perception and tinnitus. Body stimulation regions include: external ear/behind the ear, shoulder, neck, forearm, hand, and upper arm. We aim to better understand the optimal conditions of this paired stimulation, which opens opportunities for applying this method to improving hearing loss or tinnitus. We are studying three groups of people: those with normal hearing, those with mild to moderate hearing loss, and those with tinnitus.
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