

Identifying Biomarkers of Pathology in Auditory Evoked Potentials

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Biotech and Life Science

Abstract

An automated approach to evaluate Auditory Evoked Potentials (AEPs) using proprietary robust diagnostic AI modeling. This approach increases efficiency of audiologist appointments, improves diagnosis and treatment outcomes for hearing loss by automating detection of underlying sensory and neural pathologies to align treatment with underlying site-of lesion and remaining function, and increases high-quality AEPs analysis availability.

What It Is

An automated approach to evaluate Auditory Evoked Potentials (AEPs) using diagnostic AI modeling. Increases efficiency of audiologist appointments and improves diagnostic outcomes for effective treatment without specialist treatment.

Value Proposition

Improve diagnosis and treatment outcomes for hearing loss by automating detection of underlying sensory and neural pathologies to better align treatment. Increase high-quality AEPs analysis availability.

Applicable Markets

Global audiology devices market, Software as a Medical Device

Benefit

While trained specialists can visually perform various AEPs assessments, these are limited by specialist and patient time, the visibility of factors to the human eye, and human error. Research using diagnostically rich AI modelling in animal models has shown that an automated approach to evaluating a battery of AEPs can result in more accurate diagnosis and better treatment outcomes. This technology improves diagnosis and treatment outcomes for hearing loss by automating detection of underlying sensory and neural pathologies to better align treatment with underlying site-of lesion and remaining function.

Researchers

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Funding

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Publications

- Preliminary data on one auditory disorder being shared as a poster at the Association for Research in Otolaryngology MidWinter Meeting in Puerto Rico, February 2026 <https://pubs.acs.org/doi/10.1021/jacs.6b10984>

Intellectual Property

Pending U.S. Provisional Patent Application Filed
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