New Therapeutic Use of Existing Compounds to Treat Hearing Loss

Tech ID: 25575 / UC Case 2016-033-0

INVENTION NOVELTY

This technology can effectively slow or prevent hearing loss by stabilizing calcium fluxes in and out of intracellular organelles using known compounds.

VALUE PROPOSITION

Current treatments for hearing loss are medical devices such as cochlear implants or hearing aids. However, it is not curable or preventable by any medication. This invention provides a novel method to treat all forms of progressive hearing loss and deafness.

TECHNOLOGY DESCRIPTION

A researcher at the University of California, San Francisco has discovered existing compounds that are hypothesized to treat hearing loss caused by maladaptive intracellular signaling that leads to apoptotic cell death. The compounds are predicted to reduce the death of hair cells in the ear which is caused by aberrant activation of specific signaling pathways.

STAGE OF DEVELOPMENT

Proof of concept

DATA AVAILABILITY

Under CDA/NDA

RELATED MATERIALS

- Not available at this time

PATENT STATUS

Country	Type	Number	Dated	Case
Germany	Issued Patent	3368037	04/08/2026	2016-033
European Patent Office	Issued Patent	EP3368037B	04/08/2026	2016-033
France	Issued Patent	3368037	04/08/2026	2016-033
United Kingdom	Issued Patent	3368037	04/08/2026	2016-033
United States Of America	Issued Patent	11,957,655	04/16/2024	2016-033
Canada	Published Application			2016-033

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INVENTORS

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OTHER INFORMATION

KEYWORDS

Hearing loss, Compounds, Calcium flux

CATEGORIZED AS

- Medical
- Therapeutics

RELATED CASES

2016-033-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- A Blood-based Diagnostic Test for Early Stage Detection of Autism Spectrum Disorders (ASD)

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