

# Auditory function training method

Fun hearing training through games!

## Overview

Age-related hearing loss makes everyday communication, such as talking, difficult for older adults. Although support with devices such as hearing aids has become mainstream for older adults with hearing loss, it has not been possible for older adults to improve their own hearing. Conventional methods for improving hearing include listening to sounds with white noise, but the problem is that the training cannot be continued because it is monotonous and boring.

The present invention is a method for training hearing by gradually reducing the volume of auditory stimuli while playing a game (brain training). Because of the game format, older adults can continue training in a fun and motivating manner. In addition, it is expected that the hearing of older adults will be improved and they will be able to lead a comfortable life regardless of the equipment and environment.

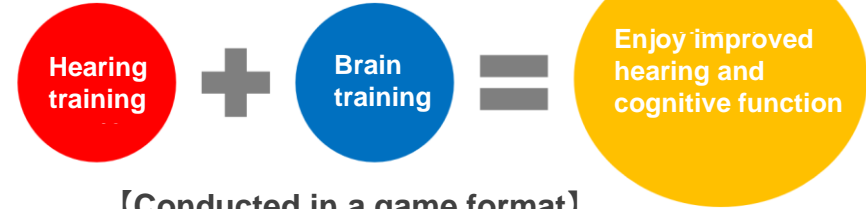
## Product Application

- ❑ Development of Hearing Loss Prevention and Improvement Games (Brain Training)
- ❑ Application to healthcare services
- ❑ Application to home appliances such as TVs and robots

## IP Data

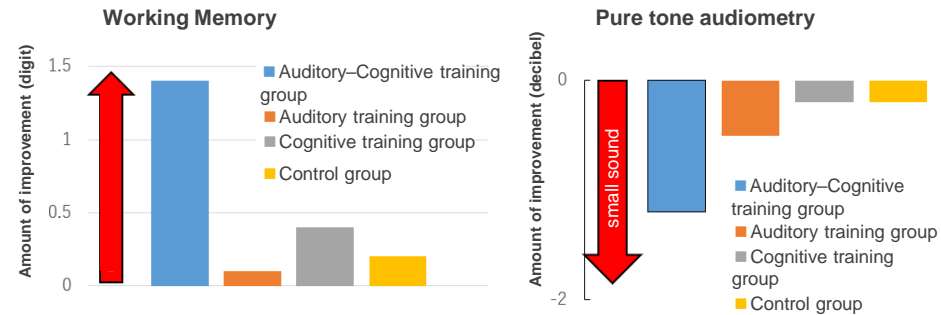
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【Training to lower the volume】



## Improved cognitive and auditory performances

Simultaneous auditory and cognitive interventions improve cognitive and auditory performances (graph: blue)



## Related Works

- [ 1 ] Kawata NYS. et al. Front. Aging Neurosci. (2022) 14:826672.
- [ 2 ] JST Sponsor Tohoku University New Technology Briefing 2021 Presentation Materials  
[https://shingi.jst.go.jp/list/list\\_2021/2021\\_tohoku.html](https://shingi.jst.go.jp/list/list_2021/2021_tohoku.html)

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