HEARING RESTORATION RESEARCH PROGRAM

CDMRP
DEPARTMENT OF DEFENSE
CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS

VISION Reduce the burden of hearing loss on Service Members, Veterans, and the American public

MISSION Deliver groundbreaking research and solutions for hearing restoration by advancing the understanding, diagnosis, repair, and regeneration of the auditory system

FY23 Appropriation $5M

PROGRAM DESCRIPTION:

The DOD Peer Reviewed **Hearing Restoration Research Program** (HRRP) is dedicated to the development of regenerative strategies and other innovative solutions to treat hearing loss, a silent epidemic that affects millions of Service Members, Veterans, and the American public.

CHALLENGES TO HEARING RESTORATION:

CLINICAL BREAKTHROUGH = **TRANSLATABLE KNOWLEDGE/ THERAPEUTICS** + **DIAGNOSIS OF PATHOLOGY**

TRANSLATION
Validation and translation of preclinical findings

DIAGNOSIS
Diagnosis of the pathology underlying sensorineural hearing loss

HRRP FOCUS AREAS:

Improvement and acceleration of the **translation of biological regeneration/ repair mechanisms** into clinical applications. Research addressing the damage, repair, and regeneration of the auditory system after military-relevant injuries is strongly encouraged.

Development of **diagnostic tests** that differentiate sensory, neural, synaptic, and central processing disorders, that may inform applicability and outcomes for current or future hearing restoration therapeutics.

Development of **reliable in-vitro human models** to facilitate the understanding, derivation, and characterization of human auditory cells, and/or to facilitate the evaluation of hearing restoration therapies.

HRRP FUNDS RESEARCH FROM EARLY IDEAS TO PILOT CLINICAL TRIAL

INITIAL IDEA → **DEVELOP KNOWLEDGE, TECHNOLOGY** → **TRANSLATION** → **CLINICAL TRIAL**

FOCUSED RESEARCH AWARD

Funding Level 1
Supports exploratory, high-risk/high-reward research in the earliest stages of idea development

Funding Level 2
Supports the advancement of more mature research toward clinical translation

Funding Level 3
Supports translational research with a pilot clinical trial component

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