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Yen-Fu Cheng is a surgeon-scientist at the Department of Medical Research and director of research and attending doctor at the Department of Otolaryngology-Head and Neck Surgery, Taipei Veterans General Hospital. He is also an adjunct assistant professor of Institute of Brain Science/Faculty of Medicine, National Yang-Ming University. He is currently the Principal Investigator of the Laboratory of Auditory Physiology and Genetic Medicine.

Yen-Fu's research focuses on auditory neuroscience and clinical otology. For basic research, he is dedicated in applying cutting edge gene transfer and gene editing methods to understand and develop therapy for inner ear disorders. For clinical research, he is interested in using state-of-the-art methods to approach clinical otology issues, such as next-generation sequencing for genetic medicine and artificial-intelligence for hearing-related diseases.

Yen-Fu received his medical degree from Taipei Medical University, and doctoral degree from Massachusetts Institute of Technology, where he studied Speech and Hearing Bioscience and Technology at the Harvard-MIT Division of Health Sciences and Technology.

A New Era of Otology and Hearing Research: NGS, CRISPR, App, AI and Beyond

Dr. Yen-Fu Cheng

The fields of clinical otology and hearing research are advancing at the forefront of innovation in medicine and technology. Promising progress in genetic medicine and digital technology have started to change the traditional medical and hearing research. Next-generation sequencing, novel gene therapy vectors, CRISPR-Cas9 gene editing technologies, mobile-phone apps and artificial intelligence all generates enormous creative energy. In this talk, I will introduce how these revolutionary technologies change physician's practice and research. fields of clinical otology and hearing research are advancing at the forefront of innovation in medicine and technology. Promising progress in genetic medicine and digital technology have started to change the traditional medical and hearing research. Next-generation sequencing, novel gene therapy vectors, CRISPR-Cas9 gene editing technologies, mobile-phone apps and artificial intelligence all generates enormous creative energy. In this talk, I will introduce how these revolutionary technologies change physician's practice and research. .

