



Innovative Technologies and Translational Therapies for Deafness

Guest Editors:

Prof. Dr. Olivier Sterkers

AP-HP, GHU Pitié-Salpêtrière,
DMU CHIR, Service ORL, GRC
Robotique et Innovation
Chirurgicale, Sorbonne
Université, 75006 Paris, France

Dr. Ghizlène Lahlou

Hôpital Universitaire Pitié
Salpêtrière, Paris, France

Prof. Dr. Huan Jia

Department of Otolaryngology–
Head and Neck Surgery,
Shanghai Ninth People's
Hospital, School of Medicine,
Shanghai Jiatotong University,
Shanghai 200011, China

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Message from the Guest Editors

Deafness and vestibular disorders are frequent pathologies, sources of disability, and can lead to impaired quality of life. Deafness is the most common sensory disorder in humans; over 5% of the world's population require some form of hearing rehabilitation. Currently, there is no cure for sensorineural deafness, only rehabilitation techniques, including conventional hearing aids and implanted auditory prostheses, such as cochlear implants. Over the past decade, numerous groups have worked on innovative technologies and therapies for deafness, including molecular, cellular, and gene therapies. Others have developed technologies to reach the organ of Corti, the sensory organ of the inner ear, which is isolated from the rest of the body by a double bone and blood–perilymphatic barrier. However, many challenges still remain to be overcome before considering application in humans. Our goal with this Special Issue is to encourage submissions of papers that provide updates on the state of the art of current knowledge in each of the related important fields aiming towards innovative treatments for deafness.





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Editors-in-Chief

Prof. Dr. Emmanuel Andrès

Internal Medicine Department,
University Hospital Strasbourg,
67000 Strasbourg, France

Prof. Dr. Kent Doi

Department of Emergency and
Critical Care Medicine, University
of Tokyo, Tokyo 113-8655, Japan

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Journal of Clinical Medicine Editorial
Office
MDPI, St. Alban-Anlage 66
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