

Special Issue

Innovative Technologies and Translational Therapies for Deafness

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.

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 Jiaotong University, Shanghai 200011, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

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