



The Challenges and Prospects in Cochlear Implantation

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Message from the Guest Editors

Dear Colleagues,

Cochlear implants (CIs) constitute a paradigmatic example of the symbiosis between the fields of medicine and engineering. A greater number of patients have seen improved their quality of life thanks to the widespread use and technical improvement of CI devices over the past few decades. Nevertheless, scientific, clinical, and technical challenges do remain: the high inter-subject variability and the lack of sensitive biomarkers make the prediction of individual CI outcomes, as well as the optimal fitting of stimulation parameters, challenging. To better delineate the main variables responsible for successful CI rehabilitation, comprehensive interdisciplinary datasets in areas such as medicine, physiology, biology, neuroscience, data science, and engineering, are still needed.

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