

1. Record Nr.	UNINA9910633972303321
Titolo	Auditory System : Function and Disorders // edited by Sadaf Naz
Pubbl/distr/stampa	London : , : IntechOpen, , 2022 ©2022
ISBN	1-80355-190-9
Descrizione fisica	1 online resource (198 pages)
Disciplina	617.8
Soggetti	Hearing disorders
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Structure and Physiology of Human Ear Involved in Hearing -- 2. Electrophysiology and Auditory Training -- 3. Short-Latency Evoked Potentials of the Human Auditory System -- 4. Precocious Auditory Evoked Potential Recording with Free-Field Stimulus -- 5. Auditory Brainstem Response with Cognitive Interference in Normal and Autism Spectrum Disorder Children - Understanding the Auditory Sensory Gating Mechanism -- 6. A Short Overview on Hearing Loss and Related Auditory Defects -- 7. Nonreceptor Protein Kinases and Phosphatases Necessary for Auditory Function -- 8. Issues in Creation of Bio-Compatible Cochlear Signal: Towards a New Generation of Cochlear Prosthetic Devices -- 9. Hearing Restoration through Optical Wireless Cochlear Implants.
Sommario/riassunto	Auditory System - Function and Disorders presents a concise description of the human auditory system and reviews the molecular biology of hearing loss with input from nine authors. It discusses the structure of the ear and associated malfunctions associated with hearing loss as well as auditory brainstem responses and their various applications. It summarizes various types of hearing loss and describes the roles of nonreceptor protein kinases and phosphatases, highlighting their importance to the function of the auditory system. Also discussed are new advancements in the treatment of hearing loss using implants and prosthetic devices. This book provides up-to-date information and is a useful resource for audiologists and geneticists,

among others.
