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| Titolo | Translational Research in Audiology, Neurotology, and the Hearing Sciences [[electronic resource] /] / edited by Colleen G. Le Prell, Edward Lobarinas, Arthur N. Popper, Richard R. Fay |
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| Descrizione fisica | 1 online resource (XVIII, 265 p. 25 illus., 19 illus. in color.) |
| Collana | Springer Handbook of Auditory Research, , 0947-2657 ; ; 58 |
| Disciplina | 617.8 |
| Soggetti | Neurosciences Otorhinolaryngology Neurobiology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "with 24 illustrations." |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters. |
| Nota di contenuto | Preface -- Perspectives on Auditory Translation Research -- Current Issues in Clinical and Translational Research in the Hearing Sciences, Audiology, and Otolaryngology -- Auditory Processing Disorder: Biological Basis and Treatment Efficacy -- Sudden Sensorineural Hearing Loss -- Development of Drugs for Noise-Induced Hearing Loss -- Cisplatin-Induced Hearing Loss -- Past, Present, and Future Pharmacological Therapies for Tinnitus -- Developing a Molecular Therapeutic for Hearing Loss -- Photons in the Ear -- Clinical and Translational Research: Challenges to the Field. |
| Sommario/riassunto | Translational Research is the interface between basic science and human clinical application, including the entire process from animal studies to human clinical trials (phases I, II, and III). Translational Research moves promising basic science results from the laboratory to bedside application. Yet, this transition is often the least-defined, least-understood part of the research process. Most scientific training programs provide little or no systematic introduction to the issues, challenges, and obstacles that prevent effective research translation, even though these are the key steps that enable high-impact basic science to ultimately result in significant clinical advances that improve patient outcome. This volume will provide an overview of key issues in |

translation of research from “bedside to bench to bedside”, not only from the perspective of the key funding agencies, but also from the scientists and clinicians who are currently involved in the translational research process. It will attempt to offer insight into real-world experience with intellectual property and technology transfer activities that can help move auditory technologies ahead, as scientists and clinicians typically have little or no formal training in these areas. Translational Research in Audiology and the Hearing Sciences will be aimed at graduate students and postdoctoral investigators, as well as professionals and academics. It is intended to function as a high-profile and up-to-date reference work on Translational Research in the auditory sciences, emphasizing research programs in the traditional areas including drugs and devices, as well as less traditional, still emerging, areas such as sensorineural hearing loss, auditory processing disorder, cochlear implants and hearing aids, and tinnitus therapies.
