

Contents

Contributors	ix
Series Preface	xiii
Volume Preface	xv
1. Auditory Pathology: When Hearing Is Out of Balance	1
JOCHEN SCHACHT	
2. Genetics of Hearing Loss	9
ELLA SHALIT AND KAREN B. AVRAHAM	
3. Cochlear Homeostasis and Homeostatic Disorders	49
PHILINE WANGEMANN	
4. Tinnitus: Theories, Mechanisms, and Treatments	101
CAROL A. BAUER AND THOMAS J. BROZOSKI	
5. Autoimmune Inner Ear Disease	131
QUINTON GOPEN AND JEFFREY P. HARRIS	
6. Age-Related Hearing Loss and Its Cellular and Molecular Bases	145
KEVIN K. OHLEMILLER AND ROBERT D. FRISINA	
7. Patterns and Mechanisms of Noise-Induced Cochlear Pathology	195
DONALD HENDERSON, BOHUA HU, AND ERIC BIELEFELD	
8. Drug-Induced Hearing Loss	219
LEONARD P. RYBAK, ANDRA E. TALASKA, AND JOCHEN SCHACHT	
9. Central Consequences of Cochlear Trauma	257
D. KENT MOREST AND STEVEN J. POTASHNER	
10. Cell Death and Cochlear Protection	275
STEVEN H. GREEN, RICHARD A. ALTSCHULER, AND JOSEF M. MILLER	
11. Emerging Strategies for Restoring the Cochlea	321
STEFAN HELLER AND YEHOASH RAPHAEL	
Index	339



<http://www.springer.com/978-0-387-72560-4>

Auditory Trauma, Protection, and Repair

Schacht, J.; Fay, R.R. (Eds.)

2008, XVI, 352 p. 53 illus., Hardcover

ISBN: 978-0-387-72560-4