

Contents

1 Historical Reflections on Current Issues in Tinnitus	1
Jos J. Eggermont and Fan-Gang Zeng	
2 Behavioral Tests for Tinnitus in Animals	21
Henry E. Heffner and Rickye S. Heffner	
3 Molecular Mechanism of Tinnitus	59
Marlies Knipper, Marcus Müller, and Ulrike Zimmermann	
4 The Cochlea and the Auditory Nerve as a Primary Source of Tinnitus	83
Régis Nouvian, Michel Eybalin, and Jean-Luc Puel	
5 Dorsal Cochlear Nucleus: Somatosensory–Auditory Interactions in Tinnitus	97
Susanne Dehmel, Seth D. Koehler, and Susan E. Shore	
6 The Inferior Colliculus: Involvement in Hyperactivity and Tinnitus	121
Donald Robertson and Wilhelmina Mulders	
7 Cortex: Way Station or Locus of the Tinnitus Percept?	137
Jos J. Eggermont	
8 Human Brain Imaging of Tinnitus	163
Jennifer R. Melcher	
9 The Psychophysics of Tinnitus	187
Brian C.J. Moore	

10 Stimulating the Auditory System to Treat Tinnitus: From Alleviating the Symptoms to Addressing the Causes.....	217
Arnaud J. Noreña	
11 Treatment: Pharmacological, Repetitive Transcranial Magnetic Stimulation, Epidural Stimulation, and Deep Brain Stimulation.....	255
Berthold Langguth, Dirk De Ridder, Tobias Kleinjung, and Ana Belén Elgoyhen	
Index.....	291