



# Translational Perspectives in Auditory Neuroscience: Normal Aspects of Hearing

*Kelly Tremblay, Robert Burkard*

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Virtually anything related to hearing that has a scientific basis could be included in a book so labeled, but this book is part of a mission to improve dialogue between basic and applied scientists so that health-related science can translate in many directions: from bench to bedside and vice versa. The editors are clinical audiologists as well as classically trained hearing scientists, who, are committed to the advancement of translational research. To do this, colleagues who work along each step of the scientific continuum, from basic to applied, provided information that was theoretically deep, but contextually broad. In some instances this meant pairing authors (clinicians and scientists) who would not normally write together and asking them to co-author chapters. A diverse group of students, post-docs, and scientists also interacted with the authors by asking questions and infusing comments during the review process. This process ensured both basic and applied material would be integrated. One example is the final chapter in the third book in the series on Auditory Plasticity and Auditory Training. Rather than simply review evidence of experience-related physiological changes documented in animal models, the authors chose to address the functional significance of auditory plasticity as it pertains to auditory learning. By simply revisiting the concepts of plasticity in relation to learning there has been a resurgence of interest in the area as it pertains to auditory rehabilitation. The challenge was to present the literature in a way that allowed us to ask the tough questions like Does a statistically-significant change in perception (or biology) necessarily constitute a functionally relevant change in behavior? More importantly, do the observed changes impact a person's ability to communicate? And does it impact their quality of life?

The result is a three-book series, beginning with: Book 1, entitled Normal Aspects of Hearing ; Book 2, entitled Hearing Across the Lifespan - Assessment and Disorders ; and Book 3, entitled Special Topics, which provides Translational perspectives on current topics in hearing science.

## 1. Introduction

Kelly Tremblay and Robert Burkard

## 2. Physics of Sound

Robert Burkard and Kathleen McNerney

## Section I Anatomy and Physiology

### 3. Peripheral Anatomy and Physiology Outer and Middle Ear

John Rosowski

### 4. Anatomy and Physiology of the Cochlea

Robert V. Harrison

### 5. Peripheral Anatomy and Physiology

Laurel H. Carney

### 6. Central Anatomy and Physiology Cochlear Nuclei

Aage Møller

### 7. The Superior Olivary Complex

Shigeyuki Kuwada and Tom C. T. Yin

### 8. The Lateral Lemniscus and Inferior Colliculus

Bradford J. May

9. The Medical Geniculate Body

Edward L. Bartlett

10. Auditory Cortex Anatomy and Physiology

John F. Brugge

11. Efferent System

John J. Guinan, Jr.

Section II Functioning Systems: Physiological Correlates of Perception

12. Perceptual Correlates of Frequency Coding in the Auditory System

Andrew J. Oxenham and Magdalena Wojtczak

13. Intensity Coding Throughout the Auditory System

Michael G. Heinz

14. Binaural Hearing, Sound Localization, and Spatial Hearing

G. C. Stecker and F. J. Gallun

15. Complex Sound Encoding Vowels and Consonants

Donal G. Sinex

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