

## Oxford Handbook Of Auditory Science The Ear The Auditory

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Abstract. This first volume in The Oxford Handbook of Auditory Science, which covers the ear, serves both as an introduction and as a reference work relating to the auditory periphery. Each article includes a mix of tutorial and advanced information. Throughout the book, the focus is on mechanistic, functional evidence, with many articles concentrating on cellular and molecular explanations of cochlear function.

Oxford Handbook of Auditory Science: The Ear - Oxford ...  
It provides a comprehensive account of our current understanding of auditory perception; that is, how humans and other animals experience the auditory world. The topics covered range from the perception of the basic physical characteristics of sounds such as intensity, frequency, and space, to the perception of complex sounds such as speech and music, as well as more cognitive functions such as auditory attention.

Oxford Handbook of Auditory Science: Hearing Oxford ...  
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The Oxford Handbook of the Auditory Brainstem provides an in-depth reference to the organization and function of ascending and descending auditory pathways in the mammalian brainstem. Individual chapters are organized along the auditory pathway, beginning with the cochlea and ending with the auditory midbrain.

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The auditory brain is the second volume in the Oxford Handbook of Auditory Science. It brings together world-leading authorities to describe what we know about the brain bases of hearing. Following the first section on structure and function, there follow sections on information coding within the brain, development, aging and plasticity, cognition and emotion, and pathology of the auditory brain.

The Oxford Handbook of Auditory Science: The Auditory ...  
Abstract. This book is the third and final volume in The Oxford Handbook of Auditory Science. It provides a comprehensive account of our current understanding of auditory perception; that is, how humans and other animals experience the auditory world. The topics covered range from the perception of the basic physical characteristics of sounds such as intensity, frequency, and space, to the perception of complex sounds such as speech and music, as well as more cognitive functions such as ...

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Abstract. This book on the auditory brain is the second volume in The Oxford Handbook of Auditory Science. It brings together leading authorities to describe what we know about the brain bases of hearing. Following the first section on structure and function, there follow sections on information coding within the brain, development, aging and plasticity, cognition and emotion, and pathology of the auditory brain.

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This chapter focuses on auditory attention, with a particular emphasis on studies that have examined the neural underpinnings of sustained, selective, and divided attention. The chapter begins with a brief discussion regarding the possible role of attention in the formation and perception of sound objects as the underlying units of selection.

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Oxford Handbook of Auditory Science The Ear, The Auditory ...  
Oxford Handbook of Auditory Science by Christopher J. Plack, 9780199233557, available at Book Depository with free delivery worldwide.

Volume 1: The Ear (edited by Paul Fuchs) Volume 2: The Auditory Brain (edited by Alan Palmer and Adrian Rees) Volume 3: Hearing (edited by Chris Plack) Auditory science is one of the fastest growing areas of biomedical research. There are now around 10,000 researchers in auditory science, and ten times that number working in allied professions. This growth is attributable to several major developments: Research on the inner ear has shown that elaborate systems of mechanical, transduction and neural processes serve to improve sensitivity, sharpen frequency tuning, and modulate response of the ear to sound. Most recently, the molecular machinery underlying these phenomena has been explored and described in detail. The development, maintenance, and repair of the ear are also subjects of contemporary interest at the molecular level, as is the genetics of hearing disorders due to cochlear malfunctions.

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The auditory brain is the second volume in the Oxford Handbook of Auditory Science. It brings together some of the leading authorities in the world to describe what we know about the brain bases of hearing.

Volume 1: The Ear (edited by Paul Fuchs) Volume 2: The Auditory Brain (edited by Alan Palmer and Adrian Rees) Volume 3: Hearing (edited by Chris Plack) Auditory science is one of the fastest growing areas of biomedical research. There are now around 10,000 researchers in auditory science, and ten times that number working in allied professions. This growth is attributable to several major developments: Research on the inner ear has shown that elaborate systems of mechanical, transduction and neural processes serve to improve sensitivity, sharpen frequency tuning, and modulate response of the ear to sound. Most recently, the molecular machinery underlying these phenomena has been explored and described in detail. The development, maintenance, and repair of the ear are also subjects of contemporary interest at the molecular level, as is the genetics of hearing disorders due to cochlear malfunctions. The auditory brain has now been shown to consist of much more than the regions of the classical 'central auditory system'. Through fMRI studies in humans and the application of novel methods in animal research, the cortical areas involved in hearing and listening in primates have been found to extend beyond the superior temporal plane into more rostral and ventral regions of the temporal cortex, and into parietal and frontal lobes. At the same time, our understanding of subcortical and core cortical areas has expanded through the use of spectrally complex stimuli and multi-channel recordings, increasingly in awake, behaving animals. Studies of auditory perception have increasingly focused on auditory 'ecology', on complex sound perception in real (or virtual) environments. Traditional distinctions between spectral, temporal and binaural processing have evolved into more functional concerns, with speech, pitch, spatial hearing and auditory object perception. Dynamic properties of hearing are becoming more prominent as adaptation and learning receive increasing recognition. Finally, influences of hearing on and by cognition (attention, memory and emotion), action and vision add to a picture of a powerful, working, integrated sense that is, arguably, the most important contributor to our interaction with our world. With each volume dedicated to one these core topics, The Oxford Handbook of Auditory Science is a major publication in the field. It brings together the views of leading researchers in the field to provide a comprehensive and authoritative review of the current state of the art in auditory science. The breadth of coverage, coupled with the accessibility of the short chapter format will make the handbook essential reading for both students and researchers in the field of audition, as well as those in psychology and neuroscience. Clinical audiologists and otolaryngologists will also find this handbook an indispensable reference source.

The Oxford Handbook of The Auditory Brainstem provides an introduction as well as an in-depth reference to the organization and function of ascending and descending auditory pathways in the mammalian brainstem. Individual chapters are organized along the auditory pathway beginning with the cochlea and ending with the auditory midbrain. Each chapter provides an introduction to the respective area, and summarizes our current knowledge before discussing disputes and challenges the field currently faces. A major emphasis throughout this book is on the numerous forms of plasticity that are increasingly observed in many areas of the auditory brainstem. Several chapters focus on neuronal modulation of function and synaptic, neuronal, and circuit plasticity, especially under circumstances when they occur most prominently: during development, aging, and following peripheral hearing loss. In addition, the book addresses the role of trauma-induced maladaptive plasticity with respect to its contribution in generating central hearing dysfunction such as hyperacusis and tinnitus. The book is intended for students and postdocs starting in the auditory field, and researchers of related fields who wish to get an authoritative and up-to-date summary of the current state of auditory brainstem research. For clinical practitioners in audiology, otolaryngology, and neurology, the book is a valuable resource of information about the neuronal mechanisms that are major candidates for the generation of central hearing dysfunction.

The 2nd edition of the Oxford Handbook of Music Psychology updates the original landmark text and provides a comprehensive review of the latest developments in this fast growing area of research. Covering both experimental and theoretical perspectives, each of the 11 sections is edited by an internationally recognised authority in the area. The first ten parts present chapters that focus on specific areas of music psychology: the origins and functions of music; music perception, responses to music; music and the brain; musical development; learning musical skills; musical performance; composition and improvisation; the role of music in everyday life; and music therapy. In each part authors critically review the literature, highlight current issues and explore possibilities for the future. The final part examines how, in recent years, the study of music psychology has broadened to include a range of other disciplines. It considers the way that research has developed in relation to technological advances, and points the direction for further development in the field. With contributions from internationally recognised experts across 55 chapters, it is an essential resource for students and researchers in psychology and musicology.

The field of Music Psychology has grown dramatically in the past 20 years, to emerge from being just a minor topic to one of mainstream interest within the brain sciences. However, until now, there has been no comprehensive reference text in the field. The Oxford Handbook of Music Psychology is a landmark text providing, for the first time ever, a comprehensive overview of the latest developments in this fast-growing area of research. With contributions from over fifty experts in the field, the range and depth of coverage is unequalled. All the chapters combine a solid review of the relevant literature with well-reasoned arguments and robust discussions of the major findings, as well as original insights and suggestions for future work. Written by leading experts, the 52 chapters are divided into 11 sections covering both experimental and theoretical perspectives, each edited by an internationally recognised authority Ten sections each present chapters that focus on specific areas of music psychology - the origins and functions of music - music perception - responses to music - music and the brain - musical development - learning musical skills - musical performance - composition and improvisation - the role of music in our everyday lives - music therapy and conceptual frameworks In each section, expert authors critically review the literature, highlight current issues, and explore possibilities for the future. The final section examines how in recent years the study of music psychology has broadened to include a range of other scientific disciplines. It considers the way that the research has developed in relation to technological advances, fostering links across the field and providing an overview of the areas where the field needs further development in the future. The Oxford Handbook of Music Psychology will be the essential reference text for students and researchers across psychology and neuroscience.

The first volume in The Oxford Handbook of Auditory Science, The Ear serves both as an introduction and as a reference work for anyone interested in how 'hearing' happens. It will be a valuable resource, for anyone interested in the ongoing challenges, and adventure, of understanding the mysteries of the ear.

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