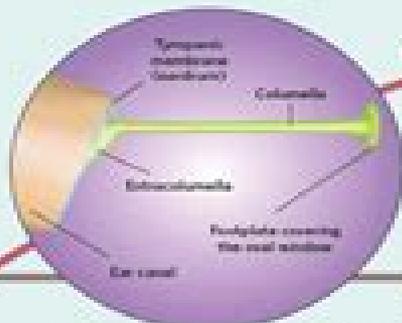


## CONVERGING ON THE EAR

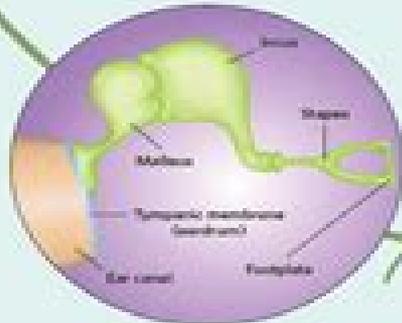
The hearing organ of vertebrates arose from vestibular organs, which contained hundreds of hair cells that could detect very low-frequency physical input, such as head rotation or gravity. Starting around 250 million years ago, the three amniote lineages—lepidosaurs (lizards and snakes), archosaurs (crocodilians and birds), and mammals—separately evolved a tympanic middle ear, followed by evolution of the inner ear, both of which served to increase hearing sensitivity. Despite the independent origin of hearing structures in the three lineages, the outcomes were functionally quite similar, serving as a remarkable example of convergent evolution.

### MODERN MIDDLE EAR Arose 250-200 million years ago



In archosaurs and lepidosaurs, a long and thin middle-ear bone called the columella evolved from the hyomandibula, a bone that earlier had formed a large strut connecting the braincase to the outer skull.

In mammals, three bony ossicles evolved from an old jaw joint (malleus, incus) together with the hyomandibula (ossicle).



In both cases, the middle-ear bones formed a lever system that greatly magnified sound input.

### LEPIDOSAURS



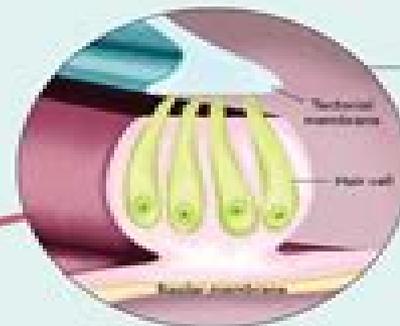
### ARCHOSAURS



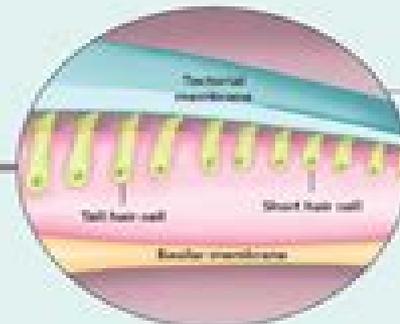
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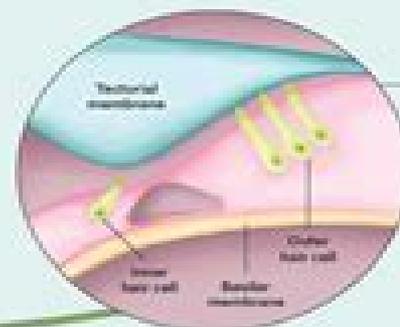
### MODERN INNER EAR Arose starting about 200 million years ago



In lepidosaurs, the auditory papilla ranges from a few hundred micrometers to 2 millimeters in length and contains two types of hair cells: one with taller bundles and fewer stereocilia that responds to sounds below 1 kHz and another with shorter, thicker bundles that responds to higher-frequency pitches.



The archosaur papilla, which reaches lengths of up to 10 millimeters in some ears, contains many thousands of hair cells of two types: tall hair cells, which serve to detect sound, and short hair cells, which amplify the signal.



In most mammals, the auditory papilla, called the organ of Corti, evolved to be so long that it began to coil on top of itself. The papilla ranges from 1.5 to 4 coils and 7 millimeters (mouse) to 70 millimeters (blue whale) in length. Mammals have two types of hair cells: inner hair cells, which detect sound, and outer hair cells, which amplify it.

In all three lineages, hair cells are arranged along the auditory papilla from low- to high-frequency sensitivity, called a tonotopic organization. In both archosaurs and mammals, one type of hair cell serves to amplify the sound signal received by the other type.

# Aural History

**Washington (State). Division of  
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## **Aural History:**

*Hearing History* Mark Michael Smith, 2004 *Hearing History* is a long needed introduction to the basic tenets of what is variously termed historical acoustemology auditory culture or aural history Gathering twenty one of the fields most important writings this volume will deepen and broaden our understanding of changing perceptions of sound and hearing and the ongoing education of our senses The essays stimulate thinking on key questions What is aural history Why has vision tended to triumph over hearing in historical accounts How might we begin to reclaim the sounds of the past With theoretical and practical essays on the history of sound and hearing in Europe and the United States the book draws on historical approaches ranging from empiricism to postmodernism Some essays show the historian of technology at work others highlight how With theoretical and practical essays on the history of sound and hearing in Europe and the United States the book draws on historical approaches ranging from empiricism to postmodernism Some essays show the historian of technology at work others highlight how military social intellectual and cultural historians have tackled historical acoustemologies Investigating soundscapes that include a Puritan meetinghouse in colonial New England the belfries of a French village at the close of the Old Regime the court hall of Elizabeth I and a Civil War battlefield the essays vary just as widely in their topics which include noise as a marker of social and cultural differences the privileging of music as the sound of art the persistence of Aristotelian ideas of sound into the seventeenth century developments in sound related to medical practice the advent of sound recording technology and noise pollution *Aural History* International Association of Sound and Audiovisual Archives. Conference, Association for Recorded Sound Collections, 2001 This volume of essays was published to mark the occasion of the 32nd annual conference of the International Association of Sound and Audiovisual Archives held jointly with the Association for Recorded Sound Collections and hosted by the National Sound Archive at the British Library St Pancras 23 27 September 2001 T p verso *A Guide to Aural History Research* Provincial Archives of British Columbia. *Aural History*, Provincial Archives of British Columbia. *Aural History Programme*, 1976 **Oral History** Marta Kurkowska-Budzan, Krzysztof Zamorski, 2009-04-22 *Oral History The Challenges of Dialogue* shows contemporary oral history at work in a variety of contexts levels and engagements The issues developed in the book correspond to different stages of research preparing and conducting the interview evaluating and analyzing the collected material publishing in the broad sense of speaking to different audiences and finally addressing the dilemmas and philosophical reflections with an emphasis on ethics This book aims to address oral history from two perspectives The first is the perspective of oral history as dialoguing the second is the presentation of concrete situations research persons and their own stories as built on the solid ground of discourse and within a concrete context The chapters embody the experiences of the authors their efforts and successes as well as their failures in dialoguing with narrators Unveiled in this book is the extensive breadth of contemporary oral history work bridging epistemological and methodological horizons **American Workers, Colonial Power** Dorothy

B. Fujita-Rony, 2003-03-04 An immensely ambitious book *American Workers Colonial Power* is a regional history with ever widening spatial and social circles each one layered and complex Filipina o Seattle this study shows reflects and exemplifies much of the American West and U S and affirms the mutually influential relationship especially in terms of culture between the U S and the Philippines This is a work of deep scholarship and broad significance Gary Y Okihiro author of *Common Ground Reimagining American History* **Proceedings** J. Covernton, William J. Langlois, Committee for an Aural History Association of British Columbia, 1973 **A Manual of Otology for Students and Practitioners** Charles Edwin Perkins, 1916 **The Annals of Otology, Rhinology & Laryngology**, 1897 *Virginia Medical Monthly* (1918- ). , 1920 **Announcement** Barnard College, 1922 **Journal of the American Medical Association**, 1901 **Archives of Otology**, 1885 History of medicine in New York v. 1 James Joseph Walsh, 1919 **Eye, Ear, Nose & Throat Monthly**, 1922 *Collecting Local History* Bay Area Reference Center, 1977 *An Introduction to the History of Medicine* Fielding Hudson Garrison, 1913 **An Introduction to the history of medicine c. 2** Fielding Hudson Garrison, 1921 **Transactions of the ... Annual Meeting of the American Laryngological, Rhinological, and Otological Society** American Laryngological, Rhinological, and Otological Society, 1917 List of fellows in each volume Washington State Oral/aural History Program Washington (State). Division of Archives and Records Management, 1974 **Medical History of Michigan** Michigan State Medical Society, 1930 This illustrated volume presents information about medical developments in Michigan in the early and middle nineteenth century in loosely organized chapters The material is drawn from reminiscences historical chronicles anecdotes scholarly journals letters and biographical as well as autobiographical accounts Topics include Native American medicine physicians who accompanied the European and early American explorers of the upper Northwest the development of Michigan s medical education and public health resources diseases and epidemics insects homeopathy diagnostic aids medical equipment and therapeutic practice Many physicians are remembered in short factual entries or sketches A few like the pioneer physiologist William Beaumont who conducted digestive research by monitoring a patient s exposed entrails receive entire articles The emphasis in v 2 is on the latter half of the nineteenth century a time when Michigan physicians were developing a professional code of ethics standards and regulatory mechanisms Topics include the re organization of the State Medical Society the controversy over homeopathy and how hospitals became the preferred setting for major medical procedures This second volume of *Medical History of Michigan* continues the format established in the first volume and includes an index for both p 83 The emphasis here is upon the latter half of the nineteenth century a time when Michigan physicians were developing a professional code of ethics standards and regulatory mechanisms Topics include the re organization of the State Medical Society the controversy over homeopathy and how hospitals became the preferred setting for major medical procedures

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## **Table of Contents Aural History**

1. Understanding the eBook Aural History
  - The Rise of Digital Reading Aural History
  - Advantages of eBooks Over Traditional Books
2. Identifying Aural History
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Aural History
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aural History
  - Personalized Recommendations

- Aural History User Reviews and Ratings
- Aural History and Bestseller Lists
- 5. Accessing Aural History Free and Paid eBooks
  - Aural History Public Domain eBooks
  - Aural History eBook Subscription Services
  - Aural History Budget-Friendly Options
- 6. Navigating Aural History eBook Formats
  - ePub, PDF, MOBI, and More
  - Aural History Compatibility with Devices
  - Aural History Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aural History
  - Highlighting and Note-Taking Aural History
  - Interactive Elements Aural History
- 8. Staying Engaged with Aural History
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aural History
- 9. Balancing eBooks and Physical Books Aural History
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aural History
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Aural History
  - Setting Reading Goals Aural History
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aural History
  - Fact-Checking eBook Content of Aural History

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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