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cochlear imaging revealed an increase in the volume of endolymph, the fluid within scala media, termed endolymphatic hydrops. Endolymphatic hydrops, hair cell loss, and cochlear synaptopathy were initiated by trauma to the mechanosensitive hair cell stereocilia and were K<sup>+</sup>-dependent.

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The cochlear canal in *Dryolestes* is 3.3 mm long and partly coiled through about 270° or three-quarters of a complete turn, starting from the proximal entry point of the cochlear nerve (figures 1, 2 and table 1),

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according to the measurement landmarks suggested by West (see also [5,23]). The canal is relatively straight and has a circular cross section near the base.

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neural preservation; cochlear implant; prediction; auditory deprivation; machine learning; Auditory neuroscience research has detailed mechanisms of neural plasticity resulting from restoration of hearing after a period of auditory deprivation (1, 2). Importantly, studies have found considerably greater plasticity in both humans and animal models (4, 5) when restoration occurs at relatively ...

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Neural preservation underlies speech improvement



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Human ear - Human ear - Cochlea: The cochlea contains the sensory organ of hearing. It bears a striking resemblance to the shell of a snail and in fact takes its name from the Greek word for this object.

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The cochlea is a spiral tube that is coiled two and one-half turns around a hollow central pillar, the modiolus. It forms a cone approximately 9 mm (0.35 inch) in diameter at its base and 5 mm ...

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This book contains the proceedings of an international hearing-research conference held in Germany 2002. The conference brought together experts in genetics, molecular and cellular biology, physiology, engineering, physics, mathematics, audiology and medicine to synthesize and extend our understanding of how the cochlea works. Topics are discussed experimentally and theoretically at the molecular, cellular and whole-organ levels. Some of the topics

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are: mechanosensitivity of motor proteins; mechanochemical transduction by motor proteins; mechanoelectrical transduction in the stereocilia of hair cells; electromechanical transduction in the stereocilia, soma and synapses of hair cells; multidimensional vibration of the organ of Corti; and otoacoustic emissions. This book will be invaluable to researchers and students in auditory science.

This book contains the proceedings of an international hearing-research conference held in Germany 2002. The conference brought together experts in genetics, molecular and cellular biology, physiology, engineering, physics, mathematics, audiology and

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medicine to synthesize and extend our understanding of how the cochlea works. Topics are discussed experimentally and theoretically at the molecular, cellular and whole-organ levels. Some of the topics are: mechanosensitivity of motor proteins; mechanochemical transduction by motor proteins; mechanoelectrical transduction in the stereocilia of hair cells; electromechanical transduction in the stereocilia, soma and synapses of hair cells; multidimensional vibration of the organ of Corti; and otoacoustic emissions. This book will be invaluable to researchers and students in auditory science. The proceedings have been selected for coverage in: □ Index to Scientific & Technical Proceedings (ISTP

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Session Readership: Hearing scientists (including medical persons in otolaryngology), biophysicists and molecular biologists, engineers interested in

manufacturing silicon devices (MEMS), and persons interested in modelling biological systems. Keywords:

Audition; Hearing; Cochlea; Biophysics; Hearing

Impairment; Motor Molecules; Ion

Channels; Interferometry; Otoacoustic

Emissions Reviews: "In addition to the scientific papers, this book includes the comments and discussions raised for each manuscript at the time of its oral

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presentation, and most importantly, a final chapter with the edited transcript of the recording of a discussion session about outstanding topics of cochlear biophysics held by some of the most prominent researchers in the field. The first hand information provided by these transcripts is precisely what makes this book particularly interesting ... The quality of this carefully edited book is excellent." *Audiology & Neuro-Otology*

This SHAR volume serves to expand, supplement, and update the original "Cochlea" volume in the series. The book aims to highlight the power of diverse modern approaches in cochlear research by focusing



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on advances in those fields over the last two decades. It also provides insights into where cochlear research is going, including new hearing prostheses for the deaf that will most likely soon enter the phase of clinical trials. The book will appeal to a broad, interdisciplinary readership, including neuroscientists and clinicians in addition to the more specific auditory community.

The first textbook of its kind dealing with composite tissue allograft and allograft transplantation, provides an excellent overview on the subject. It provides a clear description of the current status of the transplant of every composite tissue allograft already

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performed and others which are still at the basic experimental level. The editors of the book, who also contribute chapters in their expertise, are world renowned surgeons. This book opens with an introductory chapter on the history of this type of transplantation and then details the clinical experience in each graft such as hand, larynx, face, uterus and the related histopathology, immunosuppression and immunomodulation. A multidisciplinary and comprehensive presentation of the various aspects of this new area of transplantation will allow the reader to understand the complexity and the challenges of composite tissue transplantation. A number of important topics are

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analyzed and discussed in detail, such as the ethical, medicolegal, psychological and immunological implications. New rehabilitation techniques and strategies, together with innovative tools for the functional evaluation of the transplanted parts, are highlighted. A section on the experimental work underlines what lies ahead of us./a

This issue is a dedicated supplement published in addition to the regular issues of 'Audiology & Neurotology' containing congress abstracts. 'Audiology & Neurotology' is a well-respected, international peer-reviewed journal in otorhinolaryngology. Supplement issues are included

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The last decade revealed to auditory researchers that hair cells can not only detect and process mechanical energy, but are also able to produce it. Thanks to the active hair cell, ears can produce otoacoustic emissions. This book gives the newest insights into the biophysics and physiology of individual hair cells and integral hair cell systems such as the inner ear and the lateral line organ. Contents: Some Like It Active (E de Boer) Spontaneous Otoacoustic Emissions from a Bird: A Preliminary Report (G Manley & G Taschenberger) Otoacoustic Emissions from a Nonlinear, Active Model of Cochlear Mechanics (S T

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