

1. Record Nr.	UNINA9910253873603321
Titolo	Fish Hearing and Bioacoustics : An Anthology in Honor of Arthur N. Popper and Richard R. Fay // edited by Joseph A. Sisneros
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-21059-9
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (488 p.)
Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 877
Disciplina	591.1914
Soggetti	Otolaryngology Neurosciences Otorhinolaryngology Neuroscience
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Preface -- Fishy hearing: a short biography of Arthur N. Popper -- A most interesting man of science: the life and research of Richard Rozzell Fay -- It started in Hawai'i Kai: reminiscences of 43 years (and counting) of collaboration and friendship.- A soliloquy for Art and Dick by Robert J. Dooling -- Acoustic communication in butterfly fishes: Anatomical novelties, physiology, evolution and behavioral ecology -- Convergent aspects of acoustic communication in darters, sculpins and gobies -- Directional hearing and sound source localization in fishes -- Revisiting psychoacoustic methods for the assessment of fish hearing -- Hearing in cavefishes -- What the toadfish ear tells the toadfish brain about sound -- Comparison of electrophysiological auditory measures in fishes -- The potential overlapping roles of the ear and lateral line in driving 'acoustic' responses -- Multimodal sensory input in the utricle and lateral line of the toadfish, <i>Opsanus tau</i> -- The development of structure and sensitivity of the fish inner ear -- Peripheral hearing structures in fishes: diversity and sensitivity of catfishes and cichlids by Friedrich Ladich -- Diversity of inner ears in fishes: possible contribution towards hearing improvements and evolutionary considerations -- Causes and consequences of sensory

hair cell damage and recovery in fishes -- Chemical ototoxicity of the fish inner ear and lateral line -- Neuroanatomical evidence for catecholamines as modulators of audition and acoustic behavior in a vocal teleost.

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#### Sommario/riassunto

Fish Hearing and Bioacoustics is an anthology of review papers that were presented at a special symposium to honor Arthur Popper and Richard Fay on May 25th 2013 at the Mote Marine Laboratory in Sarasota, FL. The research presentations at this conference spanned the range of disciplines covered by Fay and Popper during their long and productive careers. The book includes the following thematic areas for the papers in this special volume: morphology and anatomy of the inner ear and lateral line systems; physiology of inner ear, lateral line, and central auditory systems; acoustically mediated behavior, including communication and sound localization; and environmental influences on fish hearing and bioacoustics, including anthropogenic effects of noise on fishes. Each chapter reviews and summarizes the past studies of particular area that will lead the reader up to the current work presented at the symposium. In addition, each chapter includes a perspective of how Arthur Popper and Richard Fay have influenced their particular area of fish bio acoustic research. Each manuscript also includes a hypotheses for future studies. These hypotheses will provide a springboard for future work in each field.

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