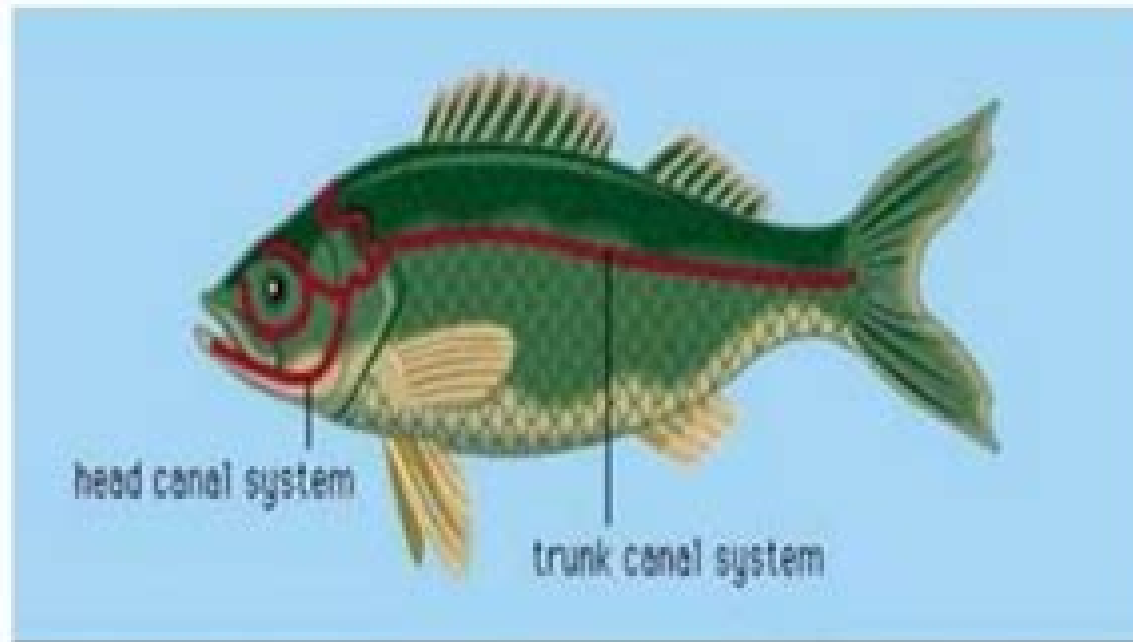


Comparative Account of lateral line system



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The Lateral Line

RD Boyd



The Lateral Line:

The Lateral Line System Sheryl Coombs, Horst Bleckmann, Richard R. Fay, Arthur N. Popper, 2013-10-23 The Lateral Line System provides an overview of the key concepts and issues surrounding the development evolution neurobiology and function of the lateral line a fascinating yet somewhat enigmatic flow sensing system The book examines the historical precedence for linking the auditory and lateral line systems its structure and development use of the lateral line system of zebrafish as a model system physical principles governing the response properties of the lateral line the behavioral relevance of this sensory system to the lives of fish and an examination of how this information is shaped and encoded by the peripheral and central nervous systems Contents The Gems of the Past A Brief History of Lateral Line Research in the Context of the Hearing Sciences Sheryl Coombs and Horst Bleckmann Morphological Diversity Development and Evolution of the Mechanosensory Lateral Line System Jacqueline F Webb The Hydrodynamic of Flow Stimuli Matthew J McHenry and James C Liao The Biophysics of the Fish Lateral Line Sietse M van Netten and Matthew J McHenry Sensory Ecology and Neuroethology of the Lateral Line John Montgomery Horst Bleckmann and Sheryl Coombs Information Encoding and Processing by the Peripheral Lateral Line System Boris Philippe Chagnaud and Sheryl Coombs The Central Nervous Organization of the Lateral Line System Mario F Wullmann and Benedikt Grothe Central Processing of Lateral Line Information Horst Bleckmann and Joachim Mogdans Functional Overlap and Nonoverlap Between Lateral Line and Auditory Systems Christopher B Braun and Olav Sand The Hearing Loss Protection and Regeneration in the Larval Zebrafish Lateral Line Allison B Coffin Heather Brignull David W Raible and Edwin W Rubel *The Anatomy and Development of the Lateral Line System in Amia Calva* Edward Phelps Allis, 1889 **The Anatomy and Development of the Lateral Line System in Amia Calva** Edward Phelps Allis, 1889 *On the System of the "lateral Line" in Fishes* Robert M'Donnell, 1862 **New American Supplement to the Latest Edition of the Encyclopaedia Britannica, a Standard Work of Reference in Art, Literature, Science, History, Geography, Commerce, Biography, Discovery and Invention**, 1897 **On the Development and Evolution of the Lateral Line** Ali Seleit, 2019* *The Anatomy and Development of the Lateral Line System in Amia Calva* Edward Phelps Allis, 2013-09 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1889 edition Excerpt which takes place in Amia and the two pores always found single in other specimens were each represented by a group of two 2 Origin of the Canal Organs The discussion of the origin and growth of the sensory thickenings from which the different lines of the lateral system arise and the origin of the sense organs along these lines lies wholly beyond the scope of the present paper but the order and manner of their appearance as determined from surface examinations lies fairly within it Most of the specimens used in this part of the work were killed in picro sulphuric acid or chromic acid with or without a trace of osmic or in the vapor of osmic acid and then transferred to chromic Chromic acid was

found to emphasize the continuity of the whitish lines which represent the sensory tissues while picro sulphuric produced a somewhat opposite effect making evident a want of continuity or at least a difference in the composition of the lines in those places where the innervation changes Freshly killed specimens were found to give much the best results for the use of alcohol obscured the markings which in certain places are indistinct even in the best preparations In fishes just hatched the lines of the infra orbital supra orbital and lateral line canals are the only ones that can be distinguished They are all represented by short straight raised lines of about the same length That of the lateral canal starts immediately above the opercular opening and those of the other two close together if not from a common point immediately behind the eye and directed like the arms of a letter V one above and the other below it In somewhat older specimens the infra orbital line extends under the eye to the level of the hind

Biology Pamphlets ,1899 *Proceedings of the United States National Museum* United States National Museum,1897 Proceedings of the Royal Society of London Royal Society (Great Britain),1899 Bulletin ... ,1896 **University Medical Magazine** ,1889 *Memoirs* Harvard University. Museum of Comparative Zoology,1896 *Transactions of the Linnean Society of London* Linnean Society of London,1900

Proceedings of the Academy of Natural Sciences Academy of Natural Sciences of Philadelphia,1898 *Report on the Nemertea* A. A. W. Hubrecht,1887 *Annals of the Queensland Museum. ...* Queensland Museum,1897 Oceanic Ichthyology George Brown Goode,Tarleton Hoffman Bean,1895 The Encyclopaedia Britannica ,1896 *Indo-Pacific Fishes* ,1985

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