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*plastic lures [+ another
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system found in fishes
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“Kingy on the Bait
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The book examines the historical precedence for linking the auditory and lateral line systems, its structure and

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development, use of the lateral line system of zebrafish as a model system, physical principles governing the response properties of the lateral line, the ...

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Auditory ...

Hassan ES (1992a)

Mathematical
description of the
stimuli to the lateral line
system of fish derived
from a three-
dimensional flow field
analysis. I. The case of
moving in open water
and of gliding towards a
plane surface.

The Enigmatic Lateral

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Line System /

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The lateral line systems of larval caecilians of the genus *Ichthyophis* possess two types of elements, free neuromasts and ampullary organs. Free mechanoreceptive neuromasts are typical of those found in other vertebrates, and are arranged in series

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roughly homologous to neuromast groups in many other fishes and amphibians. In contrast to other amphibians, Ichthyophis larvae possess only one ...

The lateral line system in larval ... -

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It may be concluded that the mechanosensory

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lateral line system is ancestral for craniates (including hagfishes and vertebrates), and that electroreception is ancestral for vertebrates (including lampreys and gnathostomes). Many peripheral (cranial nerves) and central nervous commonalities are noted for the two sensory systems.

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*The Central Nervous
Organization of the
Lateral Line System*

The "lateral line" or "lateralis" system has been used as an umbrella term to describe what originally (without the aid of modern anatomical techniques) looked like a series of pits, grooves, and lines on the head and trunk of fishes and

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System amphibians.

Springer

*The Mechanosensory
Lateral Line - Springer*

Finally, this review covers the recently documented roles of the lateral line system in natural behaviors, including courtship and prey capture. Some of these recent studies have led to the exciting conclusion that the

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lateral line may be composed of two distinct information channels, one served by canal and the other by superficial neuromasts, and that each may be dedicated to different ...

*Information Processing
by the Lateral Line
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Morphological diversity
of the lateral line canal

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system is defined by (1) variation in the morphology and extent of development of the cranial lateral line canals; (2) the number, placement, and extent of development of the trunk canals; and (3) the distribution of superficial neuromasts on the skin of the head, trunk, and tail.

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*Morphological
Diversity, Development,
and ... - Springer*

The lateral line is a collection of sense organs which are distributed over the skin or in sub-epidermal canals of the head and body of aquatic lower vertebrates. They are found in cyclostomes, fishes, larval amphibians, aquatic

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adult urodele
amphibians and some
aquatic anurans
including the South
African clawed toad,
Xenopus laevis.

*Amphibian Lateral Line
Receptors /
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*The Lateral Line System
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Abstract. In 1907, Ayers and Worthington reported that they found “fully formed and functional” lateral line

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grooves in *Eptatretus stouti* (*Bdellostoma dombeyi*). Earlier scientists had not been able to find lateral line grooves in hagfish and the report of Ayers and Worthington has not been generally accepted in the textbooks (Hardisty, 1979, p. 10; Starck, 1982, p. 518).

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*of Cyclostomes /
SpringerLink*

The sensory ecology and neuroethology of the lateral line provides an overview of the role of the lateral line in natural fish behaviour.

The approach is more conceptual than comprehensive, choosing representative behaviors and especially those that lend

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themselves to a
neuroethological
analysis. This approach
provides a clear focus
for the determination of
the relevant parameters
of the physical stimulus,
the physical and
physiological mediation
of stimulus encoding,
and a targeted approach
...

Sensory Ecology and
Page 31/36

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*Neuroethology of the
Lateral Line ...*

One striking aspect of the lateral line system is... This review covers four areas of research that have fruitfully contributed to our understanding of lateral line function within the past 10 years.

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Research &
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