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CILIA

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REPRESENTATION OF WATER FLOW BY
AFFERENT NERVE FIBRES

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REPRESENTATION OF WATER FLOW BY AFFERENT NERVE FIBRES

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EXECUTIVE SUMMARY

We investigated the response of fibres of the posterior lateral line nerve of goldfish (*Carassius auratus*) and rainbow trout (*Oncorhynchus mykiss*) to bulk water stimuli using single cell recording techniques. The objective of the study was to compare response to bulk water stimuli in a limnophilic (goldfish) and a rheophilic (trout) fish species. We found in rainbow trout a significant lower excitation level than in goldfish. This may reflect morphological differences of their lateral line systems that may have evolved according to their different habitat preferences.