

***Ion Transfer Across
Fish Gills***

SYMPOSIUM PROCEEDINGS

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PREFACE

Fish gills constitute most of the body surface of fish and are the major site of exchange of ions and water between the blood and the environment. These processes are both passive and active, and are effected by both the state of the animal and the nature of the environment. General models of ion transfer across gills in freshwater and marine fish are described, but many details are still to be worked out. It is still not clear how some fish can survive in certain environments, for example the acid waters of the Amazon River basin. In addition, the general models cannot account for all aspects of the wide range of freshwater and marine environments in which fish live. Also, little is known of ion transfer during development or the regulation of ion transfer processes across fish gills. It is hoped that this session will add to the growing body of knowledge on mechanisms and regulation of ion transfer across fish gills.

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Don MacKinlay
Congress Chair

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