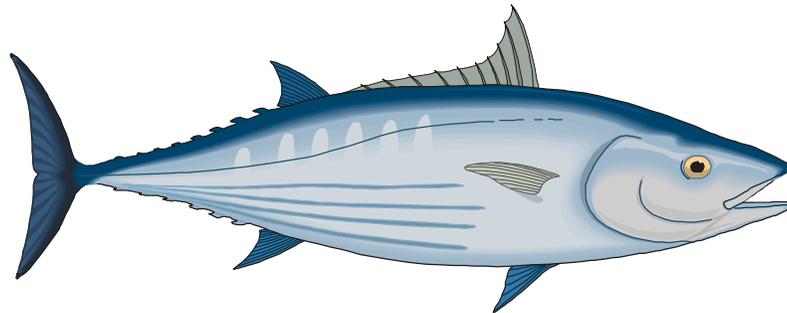


Cardiovascular Function in Fishes

**Kurt Gamperl
Anthony Farrell
Don MacKinlay**



International Congress on the Biology of Fish
Towson University, Baltimore MD July 26-30, 1998

***Fish Cardiovascular
Function: Control
Mechanisms and
Environmental Influences***

SYMPOSIUM PROCEEDINGS

Kurt Gamperl

Anthony Farrell

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*International Congress on the Biology of Fish
Towson University, Baltimore MD July 27-30, 1998.*

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International Standard Book Number (ISBN) 1-894337-01-8

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PREFACE

The fishes, which include approximately 23,000 extant species, are a morphologically and physiologically diverse taxon. They live in freshwater and marine habitats located in polar, temperate and tropical regions, and are exposed to a wide range of environmental conditions. In fish, as in other taxa, cardiovascular function has a direct bearing on numerous aspects of physiology, performance and ecology. Therefore, information on the inter-relationships between environmental change, morphophysiology, and cardiovascular function is crucial to understanding the biology of many species.

In recent years, researchers have made significant progress in understanding the physiological and morphological features which influence cardiovascular performance, and the effect that various environmental conditions (e.g. oxygen, temperature, emersion, carbon dioxide, etc.) have on cardiovascular function. In this symposium, contributors from 11 countries provide new insights into the mechanisms that control fish cardiovascular function, and describe the physiological/morphological adaptations to, and/or consequences of, alterations in various environmental parameters. The enclosed papers span levels of biological organization from the molecular to the whole animal, and include information on a wide range of taxa (from hagfish to tuna) which inhabit diverse aquatic environments. It is hoped that participants in the symposium can instill in the audience a renewed enthusiasm for research in fish biology, and that contributions to the symposium proceedings will enhance the reader's knowledge and understanding of fish cardiovascular physiology.

Symposium Organizers:

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Don MacKinlay
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CONGRESS ACKNOWLEDGEMENTS

This Symposium is part of the International Congress on the Biology of Fish, whose main sponsors were Fisheries and Oceans Canada (DFO), and Towson University. The main organizers of the Congress, on behalf of the Physiology and Fish Culture Sections of the American Fisheries Society, were Don MacKinlay of DFO (overall chair, program and proceedings), Karin Howard (registration and accommodations) and Jay Nelson of Towson University (local arrangements). I would like to extend a sincere 'thank you' to the many contributors who took the time to prepare a written submission for these proceedings. Your efforts are very much appreciated.

Don MacKinlay
Congress Chair

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