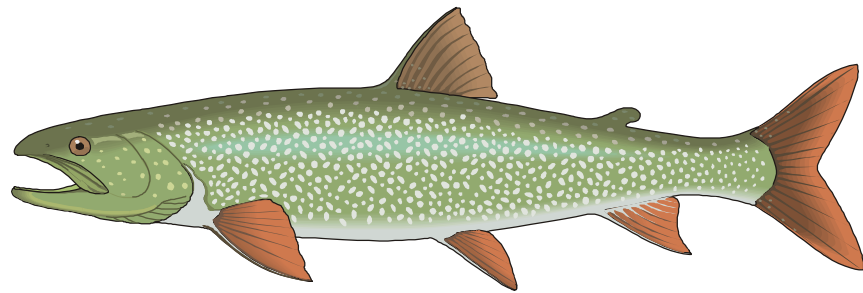


Smolt Physiology, Ecology and Behavior

Steve McCormick
Don MacKinlay



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

***Smolt Physiology,
Ecology and Behavior***

SYMPOSIUM PROCEEDINGS

Steve McCormick

Don MacKinlay

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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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Portland State U.

Anthony Farrell
Simon Fraser U.

Don MacKinlay
Fisheries Canada

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Don MacKinlay
Congress Chair

TABLE OF CONTENTS

Endocrine control of smolting: An overview. <i>Dickhoff, W.</i>	1
Probability of seaward migration in previously mature Atlantic salmon (<i>Salmo salar</i>) male parr. <i>Berglund, I., F. Arnason, H. Lundqvist & E. Prentice</i>	5
Smolting-related changes in the salmonid visual system: Observations and endocrinology. <i>Alexander, G., B. McKeown & R.M. Sweeting</i>	9
Effect of maturation on parr growth and smolting of Atlantic salmon. <i>Whalen, K. & S.D. McCormick</i>	29
Control of drinking and osmoregulation and role of the gut in migratory salmonids. <i>Eddy, F.B. & J. Fuentes</i>	33
Energetic aspects of ionic regulation in fish. <i>Iwama, G. & J.D. Morgan</i>	37
Biochemical analyses of the olfactory system in masu salmon during the parr-smolt transformation. <i>Ueda, H. & K. Yamauchi</i>	41
Growth, movement and maturity of individual Atlantic salmon parr in West Brook, MA, USA. <i>Letcher, B.H., G.Gries, T.D.Terrick & F. Juanes</i>	49
Loss of smolt characters in juvenile Atlantic salmon (<i>Salmo salar</i> L.) - energetic considerations and effects of salinity. <i>Stefansson, S.O., T.A. Giskegjerde & S. Handleland</i>	55
Brain plasticity and salmon parr-smolt transformation: putative roles by neuronal nitric oxide and thyroid hormones. <i>Holmqvist, B. & L. Ebbesson, P. Ekstrom & S. Ebbesson</i>	59
Is growth hormone a regulator of the smoltification process? <i>Bjornsson, T.</i>	65

Can Atlantic salmon smolt twice? <i>Shrimpton, J.M., S.D.McCormick & B.T. Bjornsson</i>	69
Intestinal fluid absorption during parr-smolt transformation of Atlantic salmon, <i>Salmo salar</i> . <i>Sundell, K. & P.A. Veillette</i>	75
The GH-IGF-I endocrine axis, smoltification and life history plasticity in chinook salmon. <i>Beckman, B. & W.W. Dickhoff</i>	81
Alterations in contaminant fate during smoltification in juvenile coho salmon. <i>Kennedy, C.J., J.M. Seubert & A.M. Lemke</i>	85
Influence of temperature on smolt development and reversion. <i>McCormick, S.D.</i>	99
Growth and parr-smolt transformation in strains of wild Atlantic salmon at different temperatures. <i>Pettersen, K., F. Gravem, A. Imsland & S.O. Stefansson</i>	103
Effects of fasting on growth performance and smolting of brown trout, <i>Salmo trutta</i> L. <i>Pirhonen, J. & L. Forsman</i>	107
Environmental control of smolt (<i>Salmo salar</i>) downstream migratory behavior: a direct evaluation. <i>Barbin, G.P., S.D. McCormick & A.J. Haro</i>	123
Predation on Atlantic salmon smolts in New England rivers. <i>Moring, J., O. Vanden Ende & K.S. Hockett</i>	127
Salt water entry behavior in juvenile chinook salmon as affected by smolting and disease <i>Seals, C.</i>	141
Migratory behavior of juvenile salmonids at simple and complex dams: the possible application of the mammalian model for locomotor behavior during stress. <i>Clements, S.P., J.C. Snelling, S.A. Mattson & C.B. Schreck</i>	143

The riverine, estuarine and coastal migratory behavior of wild Atlantic (<i>Salmo salar</i> L.) salmon smolts. Moore, A.	145
Smolt migration in wild Atlantic salmon: effects of early sexual maturation, tagging areas and ambient temperature on run- timing. Arnason, F., H. Lundqvist, I. Berglund & E. Prentice.....	149
Migration of juvenile chinook salmon and effects of development, stress, pathogens. Schreck, C.B., L. Davis, C. Seals, T. Stahl, J.L. Congleton, R. Pascho & G. Oosterhout.....	151
Changes in gill glucocorticoid receptor transcript levels during smoltification and effects of cortisol on its levels in masu salmon, <i>Oncorhynchus masou</i> . Mizuno, S., K. Ura, H. Fukada, M. Shimizu, N. Misaka, K. Kasugai, M. Miyamoto, A. Hara, S. Adachi & K. Yamauchi	153
Effects of growth hormone and cortisol on gill Na ⁺ , K ⁺ -ATPase mRNA levels in masu salmon, <i>Oncorhynchus masou</i> . Ura, K., S. Mizuno, M. Shimizu, A. Hara, S. Adachi & K. Yamauchi	157

