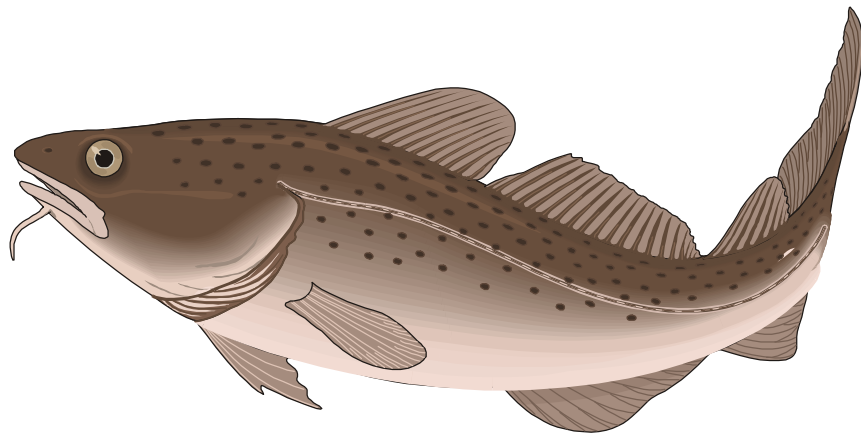


Fish Response to Toxic Environments

Chris Kennedy
Don MacKinlay



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

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Toxic Environments***

SYMPOSIUM PROCEEDINGS

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PREFACE

Reasonable evidence exists to demonstrate that alteration of aquatic ecosystems is increasing, and is having a deleterious effect on aquatic resources such as fish. We have a vital interest in evaluating and understanding the effects of various environmental stressors on fish in a timely fashion, as current thought perceives the risks to be great. Fish can be affected by stressors through direct effects and by indirect effects on the systems which support them. This symposium proposes to bring together experts in piscine toxicology to highlight and communicate recent research in areas important to increasing our understanding of the impacts of environmental alterations on various aspects of fish biology

The examples of toxic environments discussed in this symposium included those contaminated with anthropogenic and natural sources of xenobiotics such as heavy metals, hydrocarbons, and pesticides, as well as environments of altered physical and chemical characteristics including temperature and oxygen. Several papers discuss some of the more new and novel methodologies in examining and assessing toxic response in fish to environmental insult. The approaches taken in these papers spans several levels of biological organization from the molecular, biochemical, physiological, population to the ecosystem level, to gain a more comprehensive understanding of the relationship between fish and their environments.

Symposium Organizers:

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Don MacKinlay
Congress Chair

TABLE OF CONTENTS

Cellular function and energetic downregulation in cultured rainbow trout gill cells exposed to copper in vitro. <i>Smith, R.W., M. Jonsson, D.F. Houlihan & P. Part</i>	1
Use of critical thermal methodology as a bioassay for fishes. <i>Beitinger, T.L., W.A. Bennett & R.W. McCauley</i>	5
Both contaminants and habitat limit Neosho Madtom (<i>Noturus placidus</i>) numbers in the Spring River, a midwestern warmwater stream effected by runoff from historic zinc and lead mining. <i>Wildhaber, M.L., A.L. Allert & C.J. Schmitt</i>	9
Environmental influences on fish metabolic scope: behavioural adaptations. <i>Claireaux, G., C.Lefrancois, H.Schurmann, D. Webber & J.P.Lagardere</i>	15
Modeling tolerance to toxicants - a comparison of fathead minnows and rainbow trout. <i>Croke, S.J. & D.G. McDonald</i>	21
Physiological and behavioral measures of neurotoxicity in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Jones, S.B., S.L. Beauvais, S.K. Brewer & E.E. Little</i>	27
Effects of temperature on the biliary excretion of benzo[A]pyrene in rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Johnston, B.D. & C.J. Kennedy</i>	29
Survival and growth of Atlantic cod (<i>Gadus Morhua</i>) in hypoxia. <i>Chabot, D., J-D. Dutil & S. Plante</i>	39
Physiological responses of centrarchid species that occupy hypoxic swamp habitats. <i>Sabo, M.J., L.A. Brunet & D.S. Hickman</i>	45
Lamellar adhesion and implications for gaseous exchange in brown trout exposed to low levels of aluminum. <i>Collins, S.P. & J.A. Brown</i>	51

Effects of o, p' DDT on steroid hormone metabolism by rainbow trout, <i>Oncorhynchus mykiss</i> , embryos. <i>Petkam, R., P.K. Reddy, R. Renaud & J.F. Leatherland</i>	57
Hematological effects in rainbow trout subjected to a chronic sublethal concentration of lead. <i>Caldwell, C. & K.A. Phillips</i>	61
Behavioural and metabolic effects of chronic exposure to aluminum in acidic soft water in juvenile rainbow trout. <i>Allin, C.J. & R.W. Wilson</i>	63
Maternal effect on cadmium tolerance in larval tilapia (<i>Oreochromis mossambicus</i>). <i>Lin, H.C., S. Hsu & P. Hwang</i>	69
Factors affecting dietary copper bioavailability to rainbow trout. <i>Clearwater, S.J., S. Baskin, C.M. Wood & D.G. McDonald</i>	73
A comparison of the intestinal metal bioavailability of Cd and Zn in rainbow trout. <i>Baskin, S.J., S. Clearwater, C.M. Wood & D.G. McDonald</i>	77
Feeding, protein synthesis and growth in rainbow trout exposed to sublethal copper. <i>Smith, R.W., J.G. Brechin, C.L. Laurenson, E.K.N. Ryce & D.F. Houlihan</i>	81
Effect of acute exposure to copper ion on gill epithelia of <i>Prochilodus scrofa</i> (<i>Prochilodontidae</i>). <i>Fernandes, M.N., A.F. Mazon & C.C.C. Cerqueira</i>	85
Modeling chronic thresholds for toxicity - physiological effects of chronic Cu exposure to rainbow trout. <i>Taylor, L.N., J.C. McGeer, C.M. Wood & D.G. McDonald</i>	95
Physiological mechanisms of acclimation to chronic sublethal Cu or Cd exposure in rainbow trout. <i>McGeer, J.C., L.M. Hollis, L.N. Taylor, D.H. Alsop, D.G. McDonald & C.M. Wood</i>	101
Effect of temperature on copper toxicity in <i>Petenia kraussii</i> (<i>Pisces: Cichlidae</i>) juveniles. <i>Lemus, M.J. & K.S. Chung</i>	107

Oil produced water: chronic impacts on juvenile turbot. <i>Brown, J.A., S.M. Stephens & R.M. Stagg</i>	121
Uptake, inhibition, and depuration of nitrite to shortnose sturgeon <i>Acipenser brevirostrum</i> fingerlings. <i>Fontenot, Q., J.J. Isley & J.R. Tomasso</i>	127
Dietary exposure to PCB 126: Influence on interrenal stress response and induction of P450 systems in rainbow trout. <i>Quabius, E.S., H. Segner, S.E. Wendelaar Bonga</i>	131
California rice field pesticides: sublethal responses of larval fish. <i>Cech, Jr. J. & A. Heath</i>	137
Effects of creosote-treated wood on development in Pacific herring. <i>Vines, C.A., F.J. Griffin, T. Hibbard-Robbins & G.N. Cherr</i>	141
Hepatic alanine and aspartate amino transferases of the freshwater teleost <i>Brycon cephalus</i> (matrincha) exposed to the organophosphorous methyl parathion (Folidol 600). <i>Aguiar, L.H. & G. Moraes</i>	145
Metabolic and blood responses of <i>Hoplosternum littorale</i> (Siluriformes, <i>Callichthyidae</i>) exposed to acute hydrogen sulfide. <i>Affonso, E.G., V.L.P. Polez, C.F. Correa, A.F. Mazon, W.A. Ferreira & F.T. Rantin</i>	153

