



## The Toxicology of Fishes

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When looking for a book on fish toxicology, you might find one that discusses the biochemical and molecular aspects, or one that focuses aquatic toxicology in general. You can find resources that cover human and animal toxicology or ecotoxicology in general, but no up-to-date, comprehensive monograph devoted to the effects of chemical pollution on these organisms has been widely available, until now. Filling this void, **The Toxicology of Fishes**, written by recognized experts, covers toxic responses ranging from reduced reproduction and/or abnormal development, growth, and differentiation.


**General Principles** — Discusses fundamental topics such as the bioavailability of chemicals present in the aquatic environment to fishes, processes governing chemical distribution within these organisms, how fish metabolize organic chemicals, and fundamental mechanisms of chemical toxicity

**Key Target Systems and Organismal Effects** — Describes key target organ systems for chemical impacts in fish, how chemicals produce cancer in these animals, and how fishes can develop resistance to chemical toxicity

**Methodologies and Applications** — Covers methods for the assessment of chemical effects on fish such as toxicity tests, biomarkers, simulated ecosystems, and modeling approaches and the use of data from such studies in ecological risk assessments

**Case Studies** — Provides examples of how the principles and approaches presented in earlier units are actually deployed in studies

Illustrated by case studies of actual, large-scale field investigations, the book reviews the tools used to assess unwanted effects in laboratory model- and wild fish in detail. With 238 illustrations, 70 tables, and 50 equations, this comprehensive monograph presents detailed information on the bioavailability of chemical pollutants, their distribution, metabolism, and excretion in the host fish and mechanisms and sites of toxic responses.

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