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Special Issue Reprint

# Nutrition, Environment, and Fish Physiology

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This Reprint examines the intricate interactions between nutrition and environmental factors in shaping fish physiological responses. It covers growth, metabolism, immunity, reproduction, and stress, focusing on how dietary components (proteins, lipids, carbohydrates, vitamins, and minerals) and environmental variables (temperature, water quality, salinity, pH, and pollutants) jointly affect fish health. The research highlights synergistic and antagonistic effects, providing insights into optimizing aquaculture, improving welfare, mitigating environmental stressors, and supporting sustainable fishery management. Integrating findings from physiology, nutrition, aquaculture, ecology, toxicology, and biochemistry, this Reprint offers a comprehensive resource for researchers and practitioners addressing fish health in changing environments.

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