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Omics in Fish Aquaculture and Fisheries

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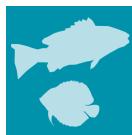
Message from the Guest Editors

Omics is a term covering modern technologies like genomics, proteomics, transcriptomics and metabolomics. Such techniques are receiving increased recognition due to their high potential to unravel novel mechanisms in biological science. NGS led in the revolution of genomics. Proteomics and transcriptomics technology provides a powerful set of tools for functional genomics studies. Metabolomics allows the measurement of low molecular weight endogenous metabolites and provides an overview of the metabolic status of a biological system. Data generated from omics can be linked together through bioinformatic analyses to generate an overall approach to events occurring within a given organism. Omics technology is being already used in the fisheries and aquaculture sector for unraveling the mechanisms of growth, disease and stress tolerance, selection of disease-resistant varieties, fish disease diagnosis, vaccine development, population structure, species identification for fish food authentication, post-harvest value addition, etc.



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Special Issue



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Message from the Editor-in-Chief

Fishes is a multidisciplinary open access journal focusing on reports of original research and critical reviews and synthesis from the broad area of fishes and aquatic animals. The ultimate objective of *Fishes* is to facilitate the discovery of connections between research areas, advancing science and filling knowledge gaps, and providing solutions for all present and future issues encountered in the sector of fisheries and aquaculture. As Editor-in-Chief, I encourage you to consider *Fishes* for your scientific papers and would be pleased to welcome you as one of our authors.

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