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Aquaculture Genetics and Genomics

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

All economic traits of importance in aquaculture have a genetic component. These include growth rate, feed conversion, flesh quality and disease resistance, in addition to sex selection and maturation indicators. Refining genetic evaluation to the level of individual fish increases the accuracy in breeding values, moving from family traits to identifying individuals within families that show certain phenotypes. Increased accuracy in genotyping results means that breeders can select the best individuals for traits of interest.

Genomics offers powerful new tools to monitor aquaculture stocks for biodiversity, genetic origins, and population health. It can provide critical information for the regulation of the aquaculture industry and, by providing traceability through DNA markers, genomics can protect consumers by helping them to authenticate fish, or confirming that fish originated from sustainable resource management practices. Better scientific information from genomics can support better decisions and better policies to protect and preserve this worldwide naturally resourced on-growing industry.

Prof. Athanasios Exadactylos
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Message from the Editor-in-Chief

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