Special Issue

Aquaculture Genetics and Genomics

Message from the Guest Editor

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.

Guest Editor

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Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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