



Selective Breeding in Aquaculture: an Introduction (Paperback)

By Trygve Gjedrem, Matthew Baranski

Springer, Netherlands, 2012. Paperback. Book Condition: New. 2009 ed.. 235 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.The foundation of quantitative genetics theory was developed during the last century and facilitated many successful breeding programs for cultivated plants and terrestrial livestock. The results have been almost universally impressive, and today nearly all agricultural production utilises genetically improved seed and animals. The aquaculture industry can learn a great deal from these experiences, because the basic theory behind selective breeding is the same for all species. The first published selection experiments in aquaculture started in 1920 s to improve disease resistance in fish, but it was not before the 1970 s that the first family based breeding program was initiated for Atlantic salmon in Norway by AKVAFORSK. Unfortunately, the subsequent implementation of selective breeding on a wider scale in aquaculture has been slow, and despite the dramatic gains that have been demonstrated in a number of species, less than 10 of world aquaculture production is currently based on improved stocks. For the long-term sustainability of aquaculture production, there is an urgent need to develop and implement efficient breeding programs for all species under commercial...



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