



# Fish Vaccination

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## Fish Vaccination From Wiley-Blackwell

Fish farming, in seawater and in freshwater, in cages, tanks or ponds, makes an ever-increasing and significant contribution to the production of aquatic food in many regions of the world. During the last few decades there has been significant progress and expansion in the aquaculture sector, characterized by intensified production and the exploitation of many new species.

Aquaculture must be a sustainable bio-production, environmentally as well as economically. Disease prevention in order to reduce losses, and the use of antimicrobials is crucial in this perspective. Vaccination has, in a few years, become the most important method for disease prevention in aquaculture, and effective prophylaxis based on stimulation of the immune system of the fish is essential for further development of the industry.

This book provides general information about disease prevention in fish by vaccination, as well as specific descriptions of the correct use of vaccines against the most important bacterial and viral infectious diseases of aquatic animals. The book is written by some of the world's leading experts in the subject, drawn from many countries where aquaculture is a significant and expanding part of the economy.

*Fish Vaccination* is an encyclopedia of fish vaccinology for every present and future aquaculturist. Professionals in the aquaculture sector, including fish veterinarians and fish biologists, within the industry, in scientific institutions and regulatory authorities will all find a huge wealth of commercially important knowledge within this book. Libraries in all universities where aquaculture, biological and veterinary sciences are studied and taught should have copies of this important book on their shelves.

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## Editorial Review

### Review

“That notwithstanding, this book is an essential resource for veterinarians, aquaculturists, and fish biologists interested in disease prevention and biosecurity, improvement of aquaculture production, and the enhancement of the health and welfare of captive fish populations or for anyone interested in fish vaccinology.” (*Journal of the American Veterinary Medical Association*, 15 September 2014)

### From the Back Cover

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### About the Author

**Roar Gudding** has been working with vaccination in veterinary medicine, including vaccination of fish, at the Norwegian Veterinary Institute for more than 25 years. He has also been Professor II in immunoprophylaxis at the Norwegian School of Veterinary Science and is the author of textbooks about vaccination of terrestrial and aquatic animals.

**Atle Lillehaug** has a PhD in fish vaccinology from 1993, based on field studies and clinical trials. He has been involved in the practical implementation of vaccination in Norwegian fish farming, and is now working with fish health in a broad sense. He has been the head of the Section for Fish Health at the Norwegian Veterinary Institute for several years.

**Øystein Evensen** is Professor at the Norwegian School of Veterinary Science. He has been working in the field of fish vaccination over the last 20 years. He also has more than seven years of experience from the pharmaceutical industry where he worked on the development of vaccines for fish farming globally.

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