



# **Mucosal Health in Aquaculture**

Benjamin H. Beck, Eric Peatman

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*Mucosal Health in Aquaculture* is an essential reference on mucosal health for the diverse aquaculture community. Rich in explanatory figures and schematics, the book includes important concepts such as structural and cellular composition of mucosal surfaces in fish and shellfish, known functional roles of molecular and cellular actors during pathogen invasion, impacts of nutrition on the mucosal barriers, impacts of chemical treatments on mucosal surfaces, mucosal vaccines and vaccination strategies, and more.

The health of cultured aquaculture species is critical in establishing the sustainable growth of the aquaculture industry worldwide, and mucosal health is of particular interest to those working in aquaculture because mucosal surfaces (skin, gill, intestine, reproductive tissues) constitute the first line of defense against pathogen invasion. *Mucosal Health in Aquaculture* captures the latest research on mucosal barriers in aquaculture species and their impacts on nutrition and immunity to ensure sustainable aquaculture development.

- Includes research case studies to exhibit the importance of various integrated approaches to mucosal health
- Examines the latest scientific methods and technologies to maximize efficiencies for healthy fish production for farming
- Brings together the latest knowledge and research on mucosal barriers and mechanisms from world-wide experts in mucosal health
- Utilizes detailed diagrams and figures to enhance comprehension



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