



**Advances in aquaculture hatchery technology: 8.  
Microbial management for bacterial pathogen  
control in invertebrate aquaculture hatcheries  
(Woodhead Publishing ... in Food Science,  
Technology and Nutrition)**

*E.F. Goulden, L. Høj, M.R. Hall*

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In aquaculture production systems, the hatchery phase is the most challenging as larvae are prone to infections and disease from microbial agents causing mass mortalities. A holistic microbial management regime concept is developed with the hatchery managed as a set of compartments: (1) the water column (planktonic); (2) surfaces (biofilm); (3) the larvae themselves; and (4) feeds (live and formulated). Emphasis on the use of the microbial community as a whole to maintain larvae in high health with various prophylactic strategies is discussed. A range of treatment strategies are considered, including antibiotics, bacteriophage therapy, quorum sensing inhibition and microbial predation. Developing innovations and future trends in microbial management and biocontrol are outlined.

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