



Improving aquaculture sustainability by modulating the feed-microbiome-host axis in fish

Portfolio of Outputs and Next Steps

www.nmbu.no/en/research/projects/improvafish



Project consortium includes 2 enterprises:



Outputs

Tailored mannan fibres



TRL 5

Tested as new feed ingredient to select for putative beneficial microbiota in the Atlantic salmon gut.

Breeding strategies



TRL 5

Use of breeding to improve microbiome composition and function in broodstock.

Microbial Resources



TRL 4

Microbial biobanks for dietary and health implications.

Next Steps

Scale up genomic and culture based microbial resources

Upscale of data analysis to associate microbiome structure to breed

Testing of impact of future microbial isolates in a probiotic setting