Biological Treatment of White Spot in Fish

Value Proposition/USP
The invention offers a biodegradable remedy against white spot. The product is very effective with up to 100% kill rate of all stages of the parasite in less than 30 minutes. The product is non-toxic and well-tolerated by fish. Acquiring the intended product is straightforward and the final product can be stored and transported for months without any special requirement for cooling. The product can be applied in all types of freshwater aquaculture systems and has the potential to control the disease in trout, salmon, eel, carp, and ornamental fish.

Business Opportunity
Nederlands Instituut voor Ecologie and the University of Copenhagen are looking for an industrial partner to commercialize the invention of new anti-parasitic compounds under a license agreement. The market for such a product is huge due to the severe impact of this parasitic disease in a rapidly increasing aquaculture. Products based on the invention can be used in fish farms settings as well as in ornamental settings.

Technology Description
New lipoprotein surfactants have been identified from a known bacterium - the active lipoproteins can be applied in freeze-dried form directly to the fish tank or in slow-release granules. Low concentrations in the range between 10 and 100 microgram per L are effective. No special storage or transportation is required.

Development State
Active lipoprotein surfactants have been isolated and stored as a freeze-dried product. Proof-of-concept has been demonstrated in rainbow trouts. Kill rates for all stages of the parasite life cycle have been documented. The project leading to this patent application has received funding from the European Union’s Horizon 2020 research and innovation program under grant agreement No 634429.

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Technology Seeking: Funding/Investors Licensee Partner/Research Collaboration

Intellectual Property Rights: EP patent application No. 17202669.2 filed 21 November 2017