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Advances in the production of microalgae in Patagonia Argentina: transfer to the productive sector

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Microalgae are used in diverse ways in aquaculture and their main applications are related to nutrition and health. They are used directly, as the only component or as a food additive to provide basic nutrients, color the meat of salmonids or for others biological activities. The need for safer nutritional sources than traditional animal products has renewed interest in plants in general and in algae in particular. This work is mainly concerned with the nutritional role of microalgae in the aquaculture of mollusk larvae, echinoderms and crustaceans, as well as the live prey of some fish larvae feed on microalgae. As well as, take back all the biocomposites produced by microalgae that can be used in the pharmaceutical and nutraceutical industry. Finally, we present the first advances in the production of microalgae and the extraction of one of the most antioxidant compounds produced in nature, astaxanthin. We also show progress in the manufacture and optimization of a photobioreactor. Great advances are expected from new designs of production systems and operations, starting from new strains of microalgae and exploring production and extraction compounds and inserting them into the Food code for use in the food industry. We have a private investor interested in our research and development and we hope that our study will contribute to the health and nutrition of the community.

Biography:

Érika Alves Tavares Marques has her expertise in Environment and passion in water resources and solid waste. Currently is doing postdoctoral studies in Civil Engineering by the Federal University of Pernambuco. Doctor from the Federal University of Pernambuco of the Postgraduate Program in Development and Environment. Completed a Master's degree in Environmental Technology at the Pernambuco Institute of Technology in 2010. Specialization in Management and Environmental Control from the University of Pernambuco (2007). She holds a Bachelor's Degree in Biological Sciences from the Federal Rural University of Pernambuco (2006).