

The snakelocks anemone, a marine species prized in cooking, has been bred for the first time in captivity

April 8 2013



'Snakelocks anemone', bred in captivity by the University of Granada spin-off concern, iMare Natural S.L.

Researchers from Granada have managed to breed for the first time in captivity a marine animal known as the snakelocks anemone, (*Anemonia*

sulcata), and have also begun breeding a species of sea cucumber (*Sticophus regalis*), although this process is still in its initial stages. Both species have great culinary potential and possess excellent nutritional properties. As well as these two species of marine invertebrates, the scientists have cultivated the edible saltmarsh plant *Salicornia*, also known as marsh samphire or sea asparagus.

The harvesting of anemones for use in gourmet restaurants and eateries is creating a decline in their numbers, and due to the high prices they reach on the market, poaching and over-exploitation are "considerably damaging the [ecological niche](#) in coastal and inter-tidal areas".

iMare Natural S.L., a University of Granada 'spin-off' concern, is developing methods of raising these species and incorporating these techniques within the aquaculture sector. It is a practice based on making the most of the surplus organic products that result from the cultivation of these products.



'Snakelocks anemone', bred in captivity by the University of Granada spin-off concern, iMare Natural S.L.

As Pedro A. Alvarez, one of the researchers and co-founders of the firm, explains, "Until now, these marine products were solely obtained by trawling, a practice which affects the ecosystem considerably".

Using an efficient pumping and channeling system, the [organic waste](#) produced by the aquaculture process is recycled and turned into fertilizers or feedstuffs that can then be used in other types of cultivation. Thus, the food surpluses and organic residue from these marine crops are utilized in hydroponic cultivation, creating an environmentally sustainable and balanced system.

Healthy-giving properties

With regards to the snakelocks anemone, one of the [species](#) that has been cultivated for the first time in Granada, Pedro Alvarez states that "it has hardly any calories and contains essential components for our health, due to its high content in proteins, cholesterol and purines, along with its low fat content".

Furthermore, Salicornia contains 30-40% of proteins, calcium, magnesium and sodium, as well as a high proportion of essential fatty acids (Omega-6), which, in the case of its seeds, can be as high as 75%. This high content in linoleic acid helps to considerably reduce blood cholesterol levels. The plant absorbs salt water and is increasingly used as a garnish for fish or seafood dishes, or is cooked along with other vegetables. In addition, Salicornia is rich in oils and can be used for producing bio-fuel.

Finally, the [sea cucumber](#) is a highly-prized product in the cuisine of Catalonia, the Balearics and Valencia, where its price can be as high as 150 euros a kilo. In the past, it was eaten by poor fishing families, but nowadays it is served in the best restaurants".

Provided by University of Granada

Citation: The snakelocks anemone, a marine species prized in cooking, has been bred for the first time in captivity (2013, April 8) retrieved 15 August 2024 from <https://phys.org/news/2013-04-snakelocks-anemone-marine-species-prized.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.