

The solution is out there, focus on microalgae

Frederic Fonlut

Biotechnology Consulting, Spain

Nowadays, more than ever, biotechnologies sectors are increasingly screening and isolating natural species to produce valuable and commercial molecules for the cosmetics, medical, chemicals and food markets. In the case of microalgae, the isolation of the strains focuses on natural species, with a high potential to synthesize these molecules in the culture process in complete cycle and in large volume. As a result, a significant amount of high quality EPA is entering the market; DHA, EPS, pigments, various carotenoids, and many other types of products. After several decades of RDI, the acquired knowledge daily increases, impulses and secures new projects in the culture of micro-algae and the production and extraction of new molecules. "The solution is out there", we present the main molecule process used for different markets, from its research to the scale up on large volume on an industrial level. We analyse each species, the milestones, the limiting factors and the result for each case. Lastly, we study in depth the case of two molecules with a great future and an interest for the natural products' market.