

ALGAECEUTICALS FOR COSMECEUTICALS & NUTRACEUTICALS

OFFICIAL NEWSLETTER OF ALGAECEUTICALS PROJECT



SNEAK PEEK OF WHAT'S INSIDE

AlgaeCeuticals Kickoff meeting

Microalgae biomass represents a rich source for discovery and AlgaeCeuticals project aims at exploiting it in a sustainable way for the development of microalgae-based natural UV Sunscreens and proteins as cosmeceuticals and nutraceuticals.

The first meeting with the AlgaeCeuticals project team was held in Thessaloniki in the Institute of Applied Biosciences (INAB, CERTH). The meeting was focused on the introduction of the AlgaeCeuticals partners of academic and research centres from Greece (CERTH/INAB; AUA), Spain (CTNC, Centro Tecnológico Nacional de la Conserva y Alimentación) and Italy (FEM) and the industrial R&D partners from Greece (Fresh Formula/FreshLine), Spain (Bionos Biotech ND) and Austria (Ecoduna AG/Eparella). The partners became familiar with the project objectives, while establishing a detailed plan for all the milestones and the forthcoming steps and actions to be taken.



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- Kickoff meeting in Thessaloniki
- FreshLine for algae
- AlgaeCeuticals 1st annual meeting



ecoduna

CTC
Centro Tecnológico Nacional de la Conserva y Alimentación



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Bionos
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FreshLine for algae

The first AlgaeCeuticals meeting took place in Fresh line's facilities in Koropi, Attica.

FreshLine was established in 1992 as a small family company inspired by the Ancient Greek wisdom of herbal therapy they started to make products following traditional family recipes.

We had the opportunity to take an exclusive look in the new facilities of FreshLine and check out their new products!

We are looking forward for the algae-based sunscreens and creams!



1st Annual meeting

During the first annual meeting in the facilities of FreshLine they presented the process for developing three cream bases with microalgae as their key component.. Ecoduna explained the process of growing algae in photobioreactor system and presented their main algae collection. They also treated us with some chocolate bites made of algae! INAB gave input on the DNA barcoding technique they use to identify different algae species, such as the EPA-strain and showed promising results of the algae growing under abiotic stress conditions for the production of high-value compounds and products.

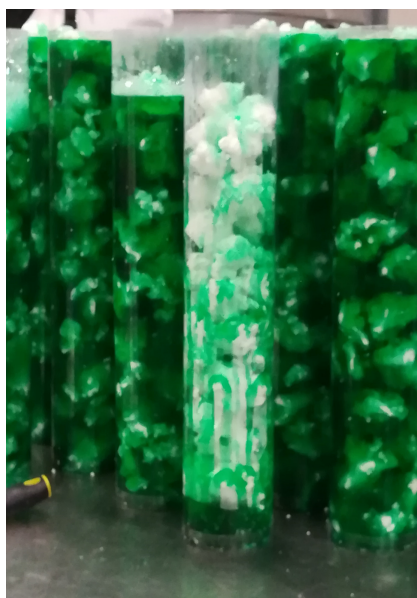
Other interesting stuff, CTC Centre presented food products they developed with algae, such as omelette, kiwi jam and onion cream. Yummy! Afterwards, the AUA partner gave insights on protease activity, total antioxidant capacity and inhibition of elastase and tyrosine in specific algae strains.

The FEM centre used metagenomics analysis to determine the diversity of bacteria growing together



with algae and they presented the metabolite profile of specific algae strains. Bionos, described *in vitro* methods for determining ROS production in human keratinocides and fibroblasts as well the gene expression related to reduced inflammation induced by two algae strains.

We love algae! Until our next newsletter...



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