

macrofarm

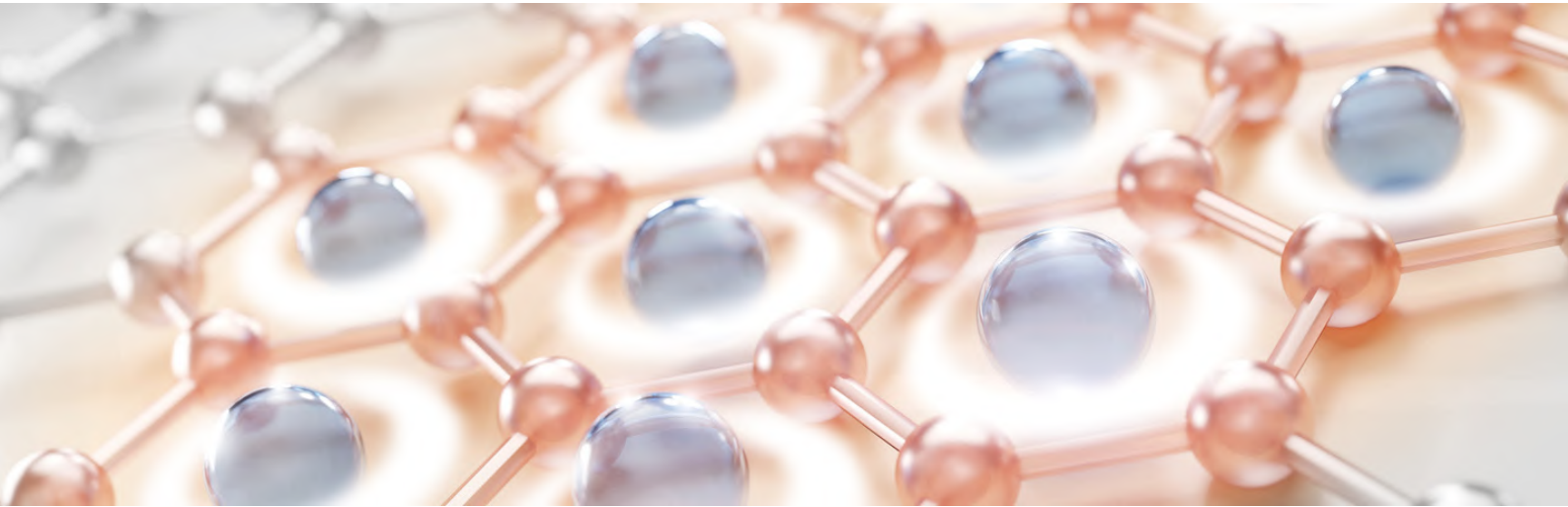
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 UNIVERSITÀ DELLA CALABRIA

ALIGNMENT OF THE COMPANY MISSION  
WITH THE CUSTOMER NEEDS!

A laboratory setup featuring a metal stand with blue clamps. A large Erlenmeyer flask containing a blue liquid is suspended from the stand. Below it, a round-bottom flask containing a red liquid is also suspended. In the background, there is a test tube held by a clamp, a vase with a white lily, and other glassware. A dark blue rectangular box is overlaid in the center, containing the word "technologies" in white serif font.

**technologies**



## IPSTiC Technology

The IPSTiC (Interconnected Polymers Technology) represents an innovative and effective strategy for the delivery of active ingredients.

This technology is based on creating a polymer blend consisting of high molecular weight Hyaluronic Acid, Rice Proteins, and Hydroxyethylcellulose, characterized by molecular-scale interconnections of the macromolecules that compose it.

The action of IPSTiC technology is based on a multimodal approach, resulting from the synergistic effect of the polymer matrices comprising the blend and the active ingredients present.

The synergistic effect of hydration and adhesion resulting from the combination of the three polymer matrices is combined with the specific properties of the delivered actives.

### Key Actions:

- Increased stability of the final product, preserving the active principles of plant origin from degradation.
- Long-lasting effect, ensuring prolonged activity and efficacy of the delivered active ingredients.

## PLG Technology

The PLG Technology represents a valuable advancement in the field of polymer science and offers significant benefits in preserving the activity and efficacy of natural antioxidants used in various applications, including cosmetics, nutraceuticals, and pharmaceuticals.

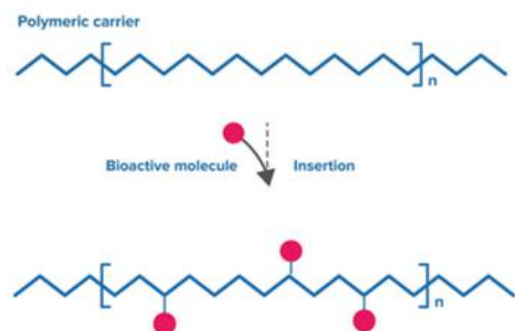
The polymeric conjugate is obtained using a fully water-compatible system without the use of any type of organic solvent, and during the whole process no toxic reaction by-products are created.

This technology allows to obtain fully biocompatible compounds in which the biologically active

molecule, bound to a macromolecular system, does not suffer from the well-known problems of instability, migration and blooming often encountered.

### Actions

- Increased stability of the final product by preserving the active ingredients of plant origin from degradation
- Long-lasting effect





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