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BIOECO-UP

PLANT CHEMISTRY A SERVICE OF BEAUTY



Do you know the "Factories of Natural Chemistry"?

Plants, stationary yet powerful, harness solar energy to manufacture unique substances that protect them from atmospheric agents, forming a biodiversity of natural chemistry adapted

Agro-Food Waste as a Source of Natural Chemistry

Agro-food waste, originating from the plants that make up our diet, is a treasure trove of beneficial substances. Thoughtful selection of these residues allows for the recovery of valuable ingredients for sustainable biocosmetics

Functional Biocosmetics

Biocosmetics, derived from agro-food waste such as grape peel, create a protective veil inspired by nature, replicating the natural defensive effect on the skin.

What Is Your Role?

Every citizen can contribute to sustainability by embracing biocosmetics from agro-food waste because conscious choices promote circular economy, fostering beauty in harmony with nature.

EXAMPLES:



www.phenbiox.it

The mechanisms of plants are our inspiration, and our technological platforms are the tools through which we transform the intelligence of plants into effective active cosmetic ingredients. Our productive technological platforms enable us to obtain natural, high-performing, and cutting-edge products.



www.frescosmesi.it

We create effective cosmetic products using fresh fruits and vegetables, offering a fully customized service for technological research and development Plants are real factories of chemical molecules beneficial to humans. Through the process of photosynthesis, they use solar energy to synthesize unique molecules, many of which have protective properties. This natural chemistry can be recovered from food waste to create biocosmetics that are functional, sustainable and in harmony with the environment.

Photosynthesis and Plant Biodiversity:

- Plants use photosynthesis to produce essential chemical molecules.
- Plant biodiversity is a precious resource, adapting to local conditions to develop defenses against pathogens and atmospheric agents.

Chemical Defenses of Plants:

- Since plants cannot move to defend themselves, they develop chemical molecules to protect themselves.
- These molecules are different and specific, adapted to the environmental challenges in which they live.

Use of Food Wastes:

- Food waste can be a valuable source of beneficial molecules present in plants.
- By carefully selecting waste, it is possible to recover these molecules for use in cosmetic products.

Functional Biocosmetics:

- Human can exploit the natural chemistry of plants to create functional biocosmetics.
- For example, the skin of grapes, rich in protective substances, can be conveniently transformed into an ingredient to be included in a cosmetic cream

Natural reconstruction on the skin:

- Biocosmetics, derived from plant waste, can form a film on the skin capable of protecting it naturally against external agents like a sort of "new peel".
- Using such products, one can experience beauty through chemistry in tune with nature.

Biocosmetics represent an innovative way to integrate the natural chemistry of plants into our daily beauty routine. By recovering and valorising plant food waste, we can embrace sustainable and environmentally friendly beauty.