AbAcus Associates several interdisciplinary approaches in order to support a high-value product market development stemming from:

- Selection and biological engineering of microalgal strains and oriented photosynthesis of terpenoids
- Technological improvement and automation of algae production systems to optimize biomass yields and photosynthesis of terpenoids
- Technological development of the downstream processing steps to reduce time and costs, and to optimize environmental acceptability
- Market development based on new algae-derived ingredients and structuration of new biobased value chains

Abacús aims at a business-oriented and technology-driven development of a new algal biorefinery, thereby bringing to the market competitive and innovative algae-based ingredients for high-end applications, spanning from algal terpenes for fragrances to long-chain terpenoids (carotenoids) for nutraceuticals and cosmetic actives.

Abacús will make a major step in mastering the value chain for competitive, algae-based products.

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