A joint European initiative to foster algae as a biomass applied to the production of added value compounds

www.abacus-bbi.eu

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abacus 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.
Specific objectives

- Selection and biological engineering of microalgal strains for oriented photosynthesis of terpenoids
- Technological improvement and automation of algae production systems to enhance biomass yields and photosynthesis of terpenoids
- Optimize downstream processing to reduce OPEX and to secure societal and environmental acceptability
- Assess applicability of targeted ingredients considering cosmetic and nutraceutical applications
- Market development of formulated products based on new algae-based ingredients with structuration of unprecedented value chains