

Corporate Innovation Challenge Template

Challenge Name: New and Original Fatty Alcohols

Code Name: BIOECONOMYVENTURES-2022-OC2-SEPPIC_1

Challenge Domain:

- Platform and Specialty Bio-based Chemicals

Description of the Corporate innovation Challenge

Fatty alcohols are used in non-food formulations as texturizing agents and also as building blocks to make amphiphilic molecules among them surfactants.

Today the 2 main vegetable sources of fatty alcohols (from C8 to C18) comes from either palm or coconut oil, 2 controversy sources because linked to the food industry but also to [deforestation](#).

The challenge is to develop bio sourced EU based alternatives, safe (human and environment), non-competing with the food industry, competitive in terms of cost and complying with [the European Access and Benefit Sharing law](#).

Those fatty alcohols could be linear or branched, bearing one or several alcohol moieties (example: cetearyl alcohol, dodecanol...). The sustainable process could involve either chemical transformation (aligned with the [12 principles of Green Chemistry](#)) and/or biotech processes.

The final application is beauty care and dermo-pharmaceuticals, although the proposed solution could be used in other industrial sectors.

The process must be easily scalable to allow the production of dozens (even hundreds) of tons every year.

Note: fatty alcohol global markets: <https://www.exportgenius.in/blog/fatty-alcohols-global-trade-overview-fatty-alcohols-market-report-173.php>

Expected results

- Replacement of existing palm and coconut fatty alcohols derivatives
- New renewable source of innovative surfactants
- Better traceability to the end-users and consumers
- LCA of the fatty alcohols obtained to be compared with existing

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Types of Collaboration

1. R&D opportunity
2. New business model exploration (i.e., exclusive distribution, profit sharing, IP sharing ...)
3. Knowledge sharing and Tech Transfer

Participation confirmation

I confirm (SEPPIC) availability and participation in the BioeconomyVentures programme. This confirmation allows BioeconomyVentures the right to publicly disclose the company's name, challenge information, logo and website for the purpose of dissemination and attracting new innovators to the programme.

Company Information

Company Name: SEPPIC

Challenge owner name and last name: Regis MARCHAND

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Company information: Seppic is a French company, subsidiary of the Air Liquide group. Seppic designs, produces and sells specialty ingredients especially for the Health & Beauty Care markets (see <https://www.seppic.com/en>)

