

## Corporate Innovation Challenge Template

**Challenge Name: Biosynthesis of Leaf Alcohol (cis-3-hexen-1-ol)**

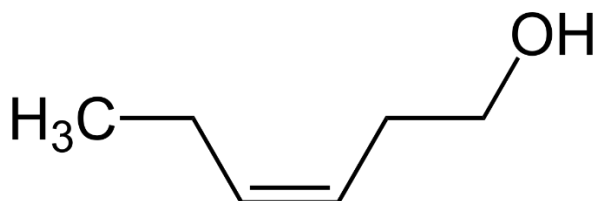
**Code Name: BIOECONOMYVENTURES-2022-OC2-Eternis\_1**

**Challenge Domain:**

- Bio-based Fragrances, Cosmetics and Personal & Home Care

**Description of the Corporate innovation Challenge**

Leaf alcohol is an important flavour and fragrance, its odour resembles freshly cut grass and is commonly used in delicate floral fragrances. Due to the desired stereo-specificity, the current synthetic route is long, low yielding and involves metal-based catalysis. This challenge is therefore to find novel process for the stereo-selective biosynthesis of leaf alcohol. The aim is to avoid the use of often toxic metal-based catalysts and manufacture leaf alcohol with a reduced environmental impact.



*Figure 1. Structure of Cis-3-hexen-1-ol*

**Expected results**

- To provide a proposed bio-synthetic route
- Cost saving vs existing route
- >99% stereoselectivity
- Scalable technology >10 MT

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### Types of Collaboration

1. Pilot running and product testing
2. R&D opportunity
3. Sales and purchase of products and services

### Participation confirmation

I confirm Eternis Fine Chemicals UK Ltd. 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: Eternis Fine Chemicals UK Ltd.**

**Challenge owner name and last name:** Andrew Burke

**Challenge owner email:** Andrew.burke@eternis.co.uk

**Company information:**

Eternis Fine Chemicals UK Ltd., Leek, Staffordshire UK.

Eternis are a family-owned manufacturer of flavour and fragrance chemicals. We are truly global with manufacturing sites in both the UK and India and distribution channels around the world. As a market leader, we are committed to sustainable growth and ensuring our products are produced safely and responsibly. We have also recently engaged with the PITTCH initiative which has led to a successful collaboration with multiple SMEs to explore the bio-catalysis of aroma compounds. Through this process we hope to build further partnerships with highly innovative and exciting companies who share our passion for sustainable chemistry!

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[Eternis Fine Chemicals UK | Global Supplier of Liquid Chemicals](#)