

Corporate Innovation Challenge Template

Challenge Name: Biobased Solvents

Code Name: BIOECONOMYVENTURES-2022-OC2-AJiBioP_1

Challenge Domain:

- Platform and Specialty Bio-based Chemicals
- Bio-based Fragrances, Cosmetics and Personal & Home Care

Description of the Corporate innovation Challenge

Current pharmaceutical and fine chemical reactions are in the majority of the cases based on solvent-based chemistry. These solvents are in 99% of the cases the result of petrol-based processes. However, most of these processes are heavily regulated which results in an inability to make it more sustainable, unless one can change the chemical process itself resulting in economic benefits to pay off the regulatory costs.

In order to make our reaction mechanisms more sustainable Ajinomoto Omnicem's business line Aji Bio-Pharma Services is searching for bio-based solvents that enable us to change the solvents like for like without changing the reaction conditions.

Currently available potential green solvents and thus out of scope: water, MeOH, EtOH, HCOOC, AcOH. The aim here is to expand this green solvent list with commonly used solvents such as THF, toluene, ethyl acetate, hexane, or another alkane/alkane mixture, etc.

Expected results

- New bio renewable solvents in a similar price range as petrol-based solvents
- Stable supply chain with multi-ton capacity

Corporate Innovation Challenge Template

Types of Collaboration
<ol style="list-style-type: none"> 1. Pilot running and product testing 2. Sales and purchase of products and services
Participation confirmation
<p>I confirm AJINOMOTO OMNICHEM 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.</p>

Company Information
Company Name: AJINOMOTO OMNICHEM
Challenge owner name and last name: Joris De Keijser
Challenge owner email: joris.dekeijser@eu.ajibio-pharma.com
<p>Company information:</p> <p>Ajinomoto OmniChem is a member of the Ajinomoto Group, which operates more than 100 manufacturing facilities and supporting offices globally.</p> <p>The Ajinomoto Group is a global leader in amino acids, focused on the research, development, and manufacture of high-quality products for the pharmaceutical, specialty chemical, nutraceutical, sports nutrition, and health & beauty industries, as well as food seasoning and consumer food products.</p> <p>Ajinomoto OmnicheM is dedicated to improving global health and well-being through innovative, adaptive solutions since 1989. From its two production sites in Belgium, one production site in India and one in Spain, the company specializes in CDMO services for the bio-pharmaceutical and fine chemistry industries and the development of additives for the food and agrosience industries, as well as serves the market with own branded tannins, bio stimulants and surfactants.</p> <p>Pioneering spirit</p> <p>One of Ajinomoto OmnicheM's distinctive strong suits is its ability to rapidly scale from pilot to commercial product with full compliance of the applicable quality assurance guidelines. To achieve this, the company relies on its in-depth knowledge of complex and hazardous chemistry, its innovation strength and state-of-the-art production technologies.</p>

Corporate Innovation Challenge Template

Driven by continuous improvements

To keep pace with the fast-moving bio-pharmaceutical and agrosience world, Ajinomoto Omnichem focuses incessantly on process optimization, novel methods, and equipment. By the end of 2022, considerable investments in the refinement of the company's sustainable processes and production methods will help its clients to meet the industry's evolving expectations towards sustainability for their clinical and commercial projects.

Head office

S.A. Ajinomoto OmniChem N.V.
Cooppallaan, 91
B-9230 Wetteren
Belgium



BIO•PHARMA
SERVICES

THE POWER TO MAKE®