



You're invited to the

Synthetic Biology for production of bio-based materials symposium

Save the date: 15-16 June 2021

What is it about?

This symposium brings together key experts from Australia and around the world who are interested in developing synthetic biology solutions for manufacturing bio-based materials across defence, health, and industrial biotechnology sectors. Bio-based materials (e.g. fibres) are derived from renewable biological resources. The use of synthetic biology to generate these materials enables the design of bio-based materials which have new or unusual properties, for example biologically active, biodegradable, or physical properties. In addition, synthetic biology may offer sustainable and cost-effective production alternatives to chemically manufactured materials.

What does this symposium want to achieve?

The overall aim of the symposium is to identify the challenges, issues and opportunities associated with commercial development of bio-based materials produced using synthetic biology and highlight the potential that can be achieved from investing in this area.

The symposium specifically seeks to:

1. Expand the reach and awareness of the market by increasing the depth and breadth of interdisciplinary expertise, market pull and competitive advantage.
2. Identify strategic priority areas and types of bio-based materials of greatest interest and preferred/targeted chassis organisms to achieve delivery.
3. Create working groups to develop technological roadmaps and outline barriers to establishment of biological production platforms.

Who will be attending?

Attendees will represent organisations such as: academic groups, industry representatives, the Department of Defence, Defence Science and Technology (DST) Group, and CSIRO. Business development and commercialisation experts will also attend.

Draft agenda:

- What is already being done using synthetic biology to prepare bio-based materials
 - bulk materials from protein templates
 - bulk materials not from proteins
 - bottom up fabrication of materials from protein templates.
- Synthetic bio-based materials
 - materials science
 - fabrication and characterisation of materials.
- Lessons learned (successes and difficulties)
 - challenges and barriers
 - scale up production of materials – commercial focus
 - breakouts and focus group discussions.

Interested in attending?

Please visit registration.entegy.com.au/synbio21

Any queries contact synbiofsp@csiro.au

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