

Synbio Powerhouse

REVERSE PITCH



2019 | Design Factory | Otaniemi



kemira



NESTE

**From waste to wealth,
microbes to the rescue!**

**Can microbes turn waste into useful
products, or purify water with
new biopolymers? Can we feed
old rugs to microbes? **Yes, yes, yes!****

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PITCH**



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The Biogarage Reverse Pitch challenge is light weight competition that offers a great opportunity for students to pitch their ideas to Ikea, Kemira, St1 and Neste.

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Each company has a challenge and the competitors will have 3 months to prepare a 5 min pitch for the Finals 27th May.

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**Kick-Off 20th March, 16-18
at Aalto Design Factory for the
opening. You can register to
compete in advance - or, just
show up for the opening and
decide there and then if you want
to compete!**

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March 20th	16-18	Kick-Off: Challenges revealed
April 25th	16-19	Workshop: Help and advice
May 27th	16-18	Finals : Pitch your ideas

Kick-Off 20th March Agenda

Boosting Circular Economy with Synthetic Biology

Riitta Silvennoinen /Specialist in the
Circular economy focus area at Sitra Fund
Nina Pulkkis /Documentarist, Parad Media

Synthetic Biology and The Future of Finland

Howy Jacobs Professor of Molecular Biology, Tampere University
Science documentary about Synthetic Biology and The Microbial Revolution

The challenges presented:

Ikea - St1 – Kemira - Neste

Circular Economy: Making edible waste for microbes

Tomi Erho, VTT Principal Scientist
A novel device for processing problematic waste

Synbio – what could it be?

Merja Penttilä, Professor, Aalto University & VTT

Ikea

Aiming for zero waste: Find an innovative & sustainable way of recycling rugs

The rugs are pre-treated with a new extrusion device.
(<https://www.vttresearch.com/media/vtt-develops-a-novel-device-for-processing-problematic-waste>)

Kemira

**Enabling Green Chemistry: Novel
enzymes for modifying cationic
biopolymers for water purification**

St1

St1 produces bioethanol from local sawdust side streams in their Cellunolix® concept, located in Kajaani, North Eastern Finland. The largest side stream from the production facility is hydrolysis lignin from the process. **St1 Reverse Pitch Challenge is to find microbial routes for refining the lignin into to higher value products using synthetic biology.**

Further idea development and IPR

The independent Jury will evaluate after the Finals whether any team or individual contestant has developed an idea with potential for further development. The novelty, any conflict of interest and feasibility for business development will be preliminarily addressed, as well as the scientific merit. Thereafter, the contestants will be informed and advised on the possible options to advance their idea with the companies, through Synbio Powerhouse actions or academically.

Facebook group:

Bio-Community (temp. Name) >

WHY JOIN?

- A great way to come in contact with potential employers at Kemira, Neste, St1 and Ikea
- Potential PhD partners
- Summer jobs
- Internships
- Interdisciplinary contacts

To register go to:

www.synbio.fi/reverse-pitch

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