



**Biotechnology and  
Biological Sciences  
Research Council**

## Thematic Research Training 2020-2021

### Clean Growth group

#### Session 2: Synthetic Biology: DIY-Level Innovation

9<sup>th</sup> February 2020, 10:00 – 16:00

Zoom link to be distributed to participants directly

#### Session Description:

In this event, the Clean Growth group shall be exploring the field of Synthetic Biology. Throughout the day, we will introduce the core concepts and methods behind the field before engaging in a workshop centred around Benchling – a useful online tool for gene design and sequence management.

After lunch, we will explore the different applications of Synthetic Biology within multiple disciplines – starting with more general examples within the SynthSys group at The University of Edinburgh before focussing on how Synthetic Biology can be integrated into our home environment with a talk from Martyn Dade-Robertson at the HBBE.

#### Session Schedule

Times	Sessions
10:00 - 10:15	<b>Welcome and General Discussion/Meet &amp; Greet</b> – Connor Trotter (The University of Edinburgh)
10:15 – 10:45	<b>Talk 1: Introduction to SynBio</b> – Dr Nadanai Laohakunakorn
10:45 – 11:00	<b>Talk 1:</b> Questions and Discussion
11:00 - 11:15	Coffee Break
11:15 – 12:45	<b>Workshop: An Introduction to Benchling</b> – Connor Trotter
12:45 – 13:45	Lunch
13:45 – 14:00	<b>Discussion 2: Where can we apply SynBio?</b> – Louis Headley (The University of Edinburgh) & Dave Knight (The University of Aberdeen)
14:00 – 14:30	<b>Talk 2: SynBio @ SynthSys, a general overview</b> - Prof. Meriem El Karoui (The University of Edinburgh)
14:30 – 14:45	<b>Talk 2:</b> Questions and Discussion
14:45 – 15:00	Coffee Break
15:00 – 15:30	<b>Talk 3: Living Construction: Biotechnology for the Built Environment</b> Dr Martyn Dade-Robertson (Hub for Biotechnology in the Built Environment, Northumbria University)
15:30 – 15:45	<b>Talk 3:</b> Questions and Discussion
15:45 – 16:00	E-Social (Games Night)

**Local organisers:**

- Dr Stuart MacNeill - [sam31@st-andrews.ac.uk](mailto:sam31@st-andrews.ac.uk)
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