



# Deliverable 11.6

## Training Seminars

WP 11– Dissemination

Version [3.0]

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**Delivery date:** 01 04 2022

**Dissemination level:** Public

**Type:** Report



*This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No. 760994. The content of this publication is the sole responsibility of the authors. The European Commission or its services cannot be held responsible for any use that may be made of the information it contains.*

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## 1 Revision History


(add rows as needed)

Author Name, Partner short name	Description	Date
Paul Hudson (KTH)	Draft deliverable	15/03/2022
Eleanor Hadley Kershaw (UNOTT)	Revision 1	20/03/2022
Angela Re (IIT)	Revision 2	29/03/2022
Paul Hudson (KTH)	Final version	01/04/2022

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## 2 Introduction

Dissemination activities were in the form of organized conferences and workshops. Partner KTH participated as co-organizer of the “15<sup>th</sup> Nordic Photosynthesis Congress,” held in Gothenburg, Sweden. Here, several lectures on cyanobacteria synthetic biology were invited. Partner UNOTT participated as co-organizer of Synthetic Biology UK, where several lectures on synthetic biology for gas fermenting organisms were invited.

A second type of training activity were workshops on Responsible Research and Innovation, hosted by partner UNOTT.

Furthermore, UNOTT delivered doctoral training in synthetic biology, undergraduate synthetic biology training by supporting a team in the iGEM Competition (<https://igem.org/>), and continuing professional training for academic, industry and other participants through its BBSRC NIBB The Carbon Recycling Network (<https://carbonrecycling.net/>).

## 3 Description of training

The training was primarily in the form of presentations, selected by the organizers (KTH, UNOTT). For responsible research and innovation, the training was in the form of workshops, with activities, surveys, and lectures.

### 3.1 Conference: 15<sup>th</sup> Nordic Photosynthesis Congress

The Nordic Photosynthesis Congress was attended by 90+ people, mostly academics and students. We invited several speakers to discuss their research on using cyanobacteria for conversion of CO<sub>2</sub> to chemicals. This is relevant for ENGICOIN, and one ENGICOIN project was presented. [www.npc15.se](http://www.npc15.se)

### 3.2 Training courses on Metabolic Engineering or Systems Biology

Partner KTH held a 2-hour training seminar for Ph.D. students at KTH as part of a series called Frontiers in Metabolic Engineering. Here the ENGICOIN project was discussed, with technical details metabolic engineering of cyanobacteria and *Cupriavidus*. This was attended by 20 people, Ph.D. students and postdocs.

Partner UVA held a seminar series titled “Real-world Applications of Systems biology.” This was part of MSc course Systems Biology in Practice of joint Degree of Bioinformatics and Systems Biology at the University of Amsterdam and Vrije University Amsterdam. Approximately 100 students attended. As part of this series, ENGICOIN projects were presented.

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### 3.3 Conference: Synthetic Biology UK

The Synthetic Biology UK conference was co-organized by ENGICOIN partner UNOTT. The conference was attended by 100+ people, mostly academics and students. Several talks had a focus on CO<sub>2</sub> conversion, relevant for ENGICOIN.

[https://www.eventsforce.net/biochemsoc/frontend/reg/thome.csp?pageID=53019&ef\\_sel\\_menu=703&eventID=108](https://www.eventsforce.net/biochemsoc/frontend/reg/thome.csp?pageID=53019&ef_sel_menu=703&eventID=108)

### 3.4 Workshops: Responsible Research and Innovation

ENGICOIN partner UNOTT has hosted several workshops with focus on RRI. Some of these have been within the ENGICOIN consortium, and some outside.

1. Internal ENGICOIN training workshop: Part 1, introduction to social science & humanities (SSH) and Responsible Research and Innovation (RRI); Part 2, developing a language compendium. Valencia, Spain. 18<sup>th</sup> January 2019. ~30 people.
2. Internal ENGICOIN training workshop (SSH and RRI in ENGICOIN): reflecting on the project and anticipating its futures. Nottingham, UK. 24<sup>th</sup> January 2020. ~25 people.
3. Workshop on '*Circling Sustainability and Responsibility: Exploring Synergies between the Circular Economy, Synthetic Biology and Responsible Innovation*' for research, industry, civil society, policy participants, including three ENGICOIN team members. Nottingham, UK. 2<sup>nd</sup> April 2019. ~25 people.
4. Workshop on '*Public views on using bacteria to make chemicals from waste gases*' in which ENGICOIN and UNOTT early career team members developed their public engagement and RRI skills. Manchester, UK. 3<sup>rd</sup> August 2019. ~22 people (16 public; 6 ENGICOIN & UNOTT).
5. Conference on '*Responsible Innovation: Industrial Biotechnology & Engineering Biology*', for research, industry, policy and civil society participants across full range of career stages. Online. 25<sup>th</sup> January 2021. ~225 people (and recordings disseminated to 315 people).
6. Developed Responsible Research and Innovation Training Course (10-part comprehensive course) for all University of Nottingham postgraduate students and early career researchers, delivered centrally by colleagues online plus tailored iterations for specific Centres for Doctoral Training. 2019 onwards (3+ iterations per academic year). ~500 people to date.

### 3.5 Outreach

Partner UvA installed an exhibit at Micropia - museum of microbes – Amsterdam featuring *Synechocystis* as microbe of the month, including its biotechnological capabilities. Number of visitors > 1000