

# Synthetic Life

## The ACDC Summer School

26 and 27 August 2021  
Online course

### 26 August Thursday

#### ARTIFICIAL LIFE

9:00 **Introduction on the ACDC project and on artificial life**  
10:00 *Martin M. Hanczyc - University of Trento*

10:00 **Computational approach in artificial life sciences**  
11:00 *Rudolf M. Fuchslin - Zurich University of Applied Sciences*

11:00 **30' Coffee break**

11:30 **Emerging properties in artificial cells**  
12:30 *Oliver Castell - University of Cardiff*

12:30 **90' Lunch break**

#### SYNTHETIC BIOLOGY

14:00 **Molecular plumbing in synthetic biology**  
15:00 *David Jamieson - University of Cardiff*

15:00 **The emerging landscape of biofoundries**  
16:00 *Dario Cecchi - Explora Biotech*

16:00 **30' Coffee break**

16:30 **Communication between artificial cells and natural cells**  
17:30 *Sheref S. Mansy - University of Trento*

### 27 August Friday

#### MICROFLUIDICS

9:00 **Introduction to droplet based microfluidics**  
10:00 *Sebastien Cargou - Elvesys*

10:00 **Introduction to the generation and analysis of networks of droplets**  
11:00 *Alessia Faggian and Johannes Schneider*  
*University of Trento and Zurich University of Applied Sciences*

11:00 **30' Coffee break**

11:30 **Construction of Complex Emulsion and Artificial Cells towards Artificial Lifeform**  
12:30 *Jin Li and Pantelitsa Dimitriou - University of Cardiff*

12:30 **90' Lunch break**

#### SCIENCE WITH AND FOR SOCIETY

14:00 **Responsible Research and Innovation**  
15:00 *Agata Gurzawska - Trilateral Research*

15:00 **Acts of Creation**  
16:00 *David Barrow and Davide De Lucrezia*  
*University of Cardiff and Explora Biotech*

16:00 **30' Coffee break**

16:30 **Artificial life & intelligences: future heavens, hells & in-betweens**  
17:30 *Nik Baerten - Pantopicon*