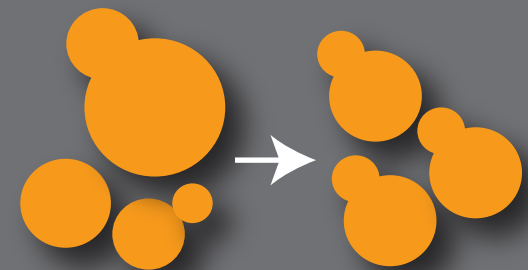
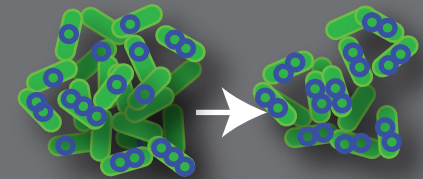
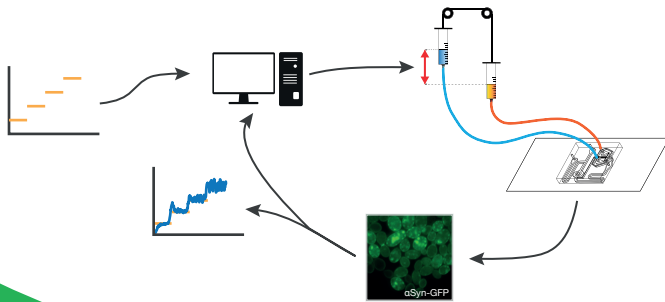


OBJECTIVES

- Theories, methods and tools to design and implement external controllers in computers, to make a biological system behave reliably and robustly by observing and manipulating cells in real-time.
- Theories, methods and tools to deploy multicellular control across cell populations.
- Develop enabling technologies for rapid model identification and prototyping of synthetic circuits.
- Theories, methods and tools for effectively dealing with the challenges facing the de novo synthesis of embedded biological controllers so that biological systems can function reliably and robustly within the cell.

OUR GOAL

Develop a theoretical framework and innovative technological tools to engineer reliable biological systems that are robust despite their individual components being not by translating principles of control engineering to molecular and cell biology.



COSY-BIO CONSORTIUM

COSY-BIO multidisciplinary consortium includes experts in control engineering, computer science, microfluidics, microbiology and biotechnology

COSY-BIO STAKEHOLDERS

COSY-BIO project will build a network with key stakeholders: researchers, early-stage career scientists, industries, regulators, and associations in Synthetic Biology Engineering

- Fondazione Telethon, Italy
- University of Edinburgh, United Kingdom
- University of Naples Federico II, Italy
- Paris Diderot University, France
- Swiss Federal Institute of Technology in Zurich, Switzerland
- Imperial College London, United Kingdom
- University of Bristol, United Kingdom
- National Research Institute for Computer Science and Informatics, France



COSY-BIO COORDINATOR

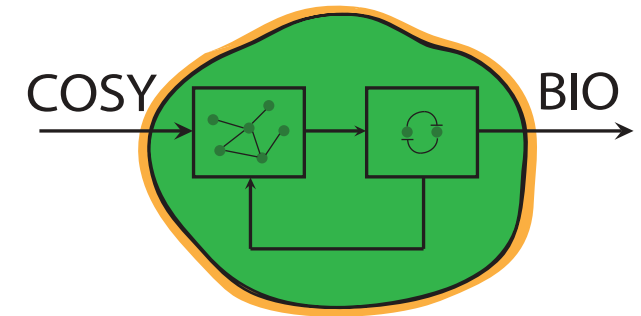
tigem

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Control Engineering of Biological Systems for Reliable Synthetic Biology Applications

WWW.COSY-BIO.EU