

DIM BioConvS Innovation Day!

Welcome to our interactive event!

**If not done yet, please could you fill in this quick important survey.
It will only take 1 minute of your time.**



Coordination



Amanda Silva Brun
(DR CNRS)

Co-coordinator

Start-up co-founder

Research:

Bioproduction of extracellular vesicles for biotherapy



Ariel B. Lindner
(DR Inserm)

Director of U1284 - Evolution and engineering of dynamic systems

Co-founder + board member

Research:

Systems and Synthetic biology, open/citizen science



DIM BioConvergence for Health



Synthetic biology



Biotherapy



Bioproduction

Community

- > 40 labs
- > 70 Research teams
- > 15 companies
- > 700 members

ComEX

Amanda Silva Brun
Ariel Lindner
Anne Galy
Harry Sokol

Pascal Hersen
Stéphane Lemaire
+ Fellows
representative

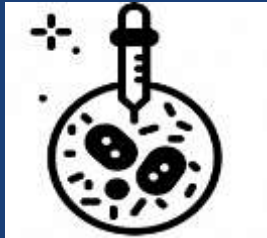
Project manager: Chiara Fracassi

Innovation manager: Carole Oudot coordinator@bioconvs.com

DIM BioConvergence for Health



Synthetic biology



Biotherapy



Bioproduction

Thematic axes



1. Bioengineering and bioprocesses



2. Therapy proof-of-concept



3. High-throughput and standardizable analytical methods



4. Digital tools



5. Societal and economic issues

Framework – 5 years

12.5 M EUR

Infrastructure

Distributed biofoundry

Collective Digital
Intelligence Platform
(DICE)

Project support

17 PhD students

5 Post-docs

Equipment (2.8 M EUR)

Open call



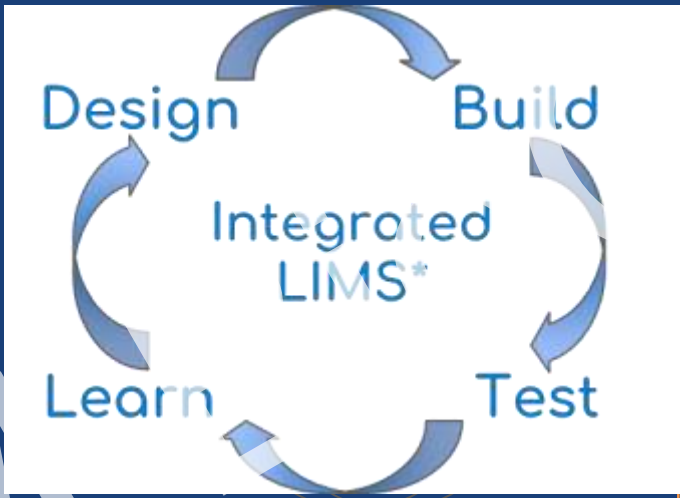
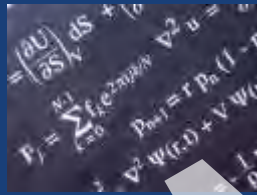
Innovation

Training
Tools
Networking

Distributed biofoundry

Dedicated high throughput Engineering Biology

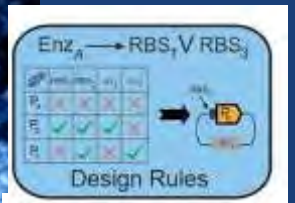
- Computer Aided Design (CAD)
- Simulations



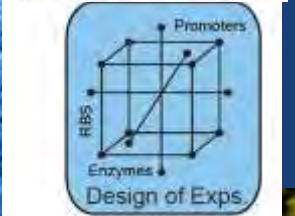
- Liquid handling robots
- Automated genotyping



High throughput screening and phenotyping
High throughput imagery, sorting, FACS
Systemic semi-automatic sampling
RNAseq, genome sequencing (NGS)
un.targeted proteomics and metabolomics



- Systems Biology
- Modelling, statistical inference
- Machine learning, IA
- data mining and visualisation

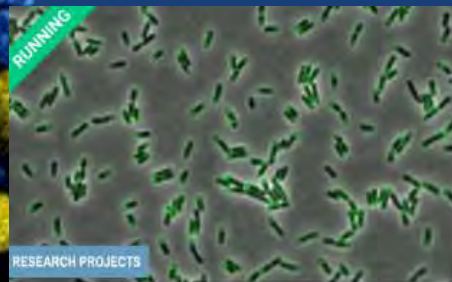


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* Laboratory Information Management System

CollectivE Digital Intelligence Platform

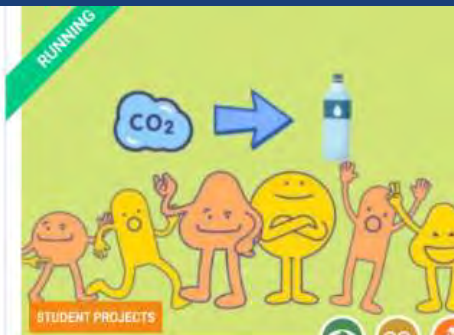
Projects.directory / co-design



RESEARCH PROJECTS

EU FUNDED PHD POSITION: PHASE SEPARATED RNA-BASED SYNTHETIC ORGANELLE IN E. COLI

Build synthetic organelle in E. coli for various applications, and studies on membraneless organelle



STUDENT PROJECTS

E.COLIGY

Can we produce bioplastics "from air" using the power of synthetic biology?



STUDENT PROJECTS

INTERNSHIP IN SYNTHETIC BIOLOGY, CRI - MARIA GALIARNYK

New tools for drug discovery against tuberculosis



RESEARCH PROJECTS

SPATIO-TEMPORAL CONTROL OF DIVISION OF LABOR IN YEAST COMMUNITIES

Study microbial interactions using cyber- and optogenetics. Here we study the enzyme SUC2 in *Saccharomyces cerevisiae*

Ecosystem mapping



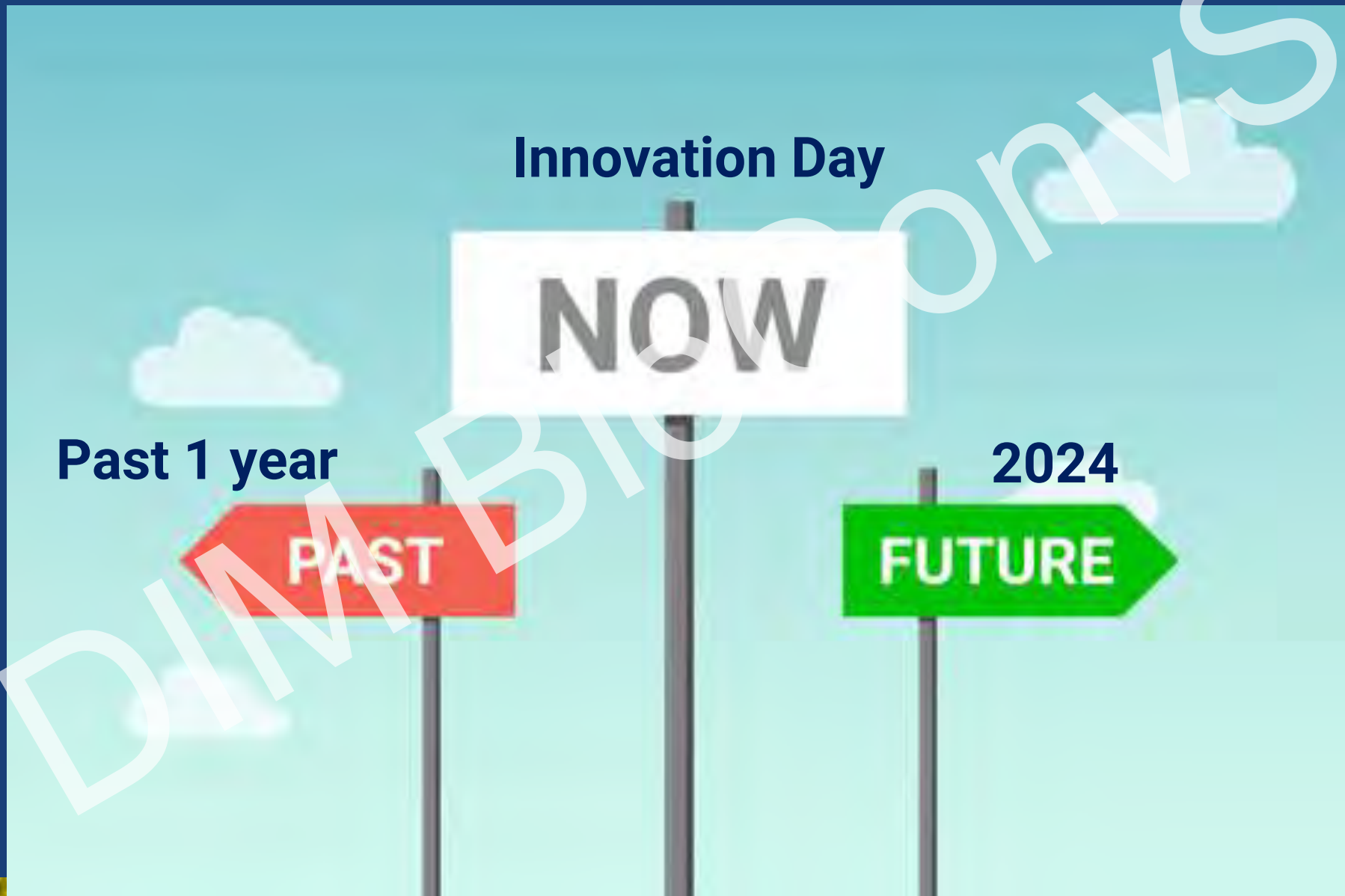
People - skills

Home Researchers

- AB-OpenLab
- Affiliate Faculty
- Birdsong
- Connect Project
- Interaction Data Lab
- Microbe Defense
- Mosquito Bites & Behavior
- Research Staff
- SEED - Systems Engineering and Evolution Dynamics



DIM BioconvS



PAST

DIM BioconvS

Funded in 1 year

7 PhD + 3 post-docs

12 equipment

Training: bioproduction (5 registrations) + entrepreneurship (5 registrations)

European partnerships: ESACT (European Society for Animal Cell Technology) + EIT Health

10 registrations: Congrès France Bioproduction

4 iGEM teams

etc...

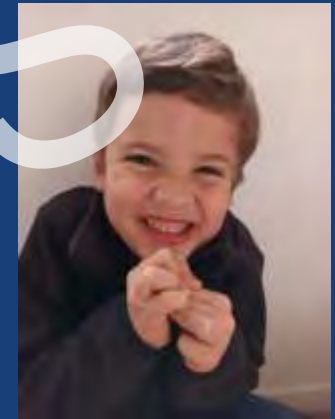


FUTURE

DIM BioconvS

What is new in 2024?

More info:
end of the day



BioconvS lab tour

BionconvS young community: join the dedicated lunch space!

Innovators of tomorrow

DIM BioConvS

NOW

Innovation Day

Understanding innovation with new eyes

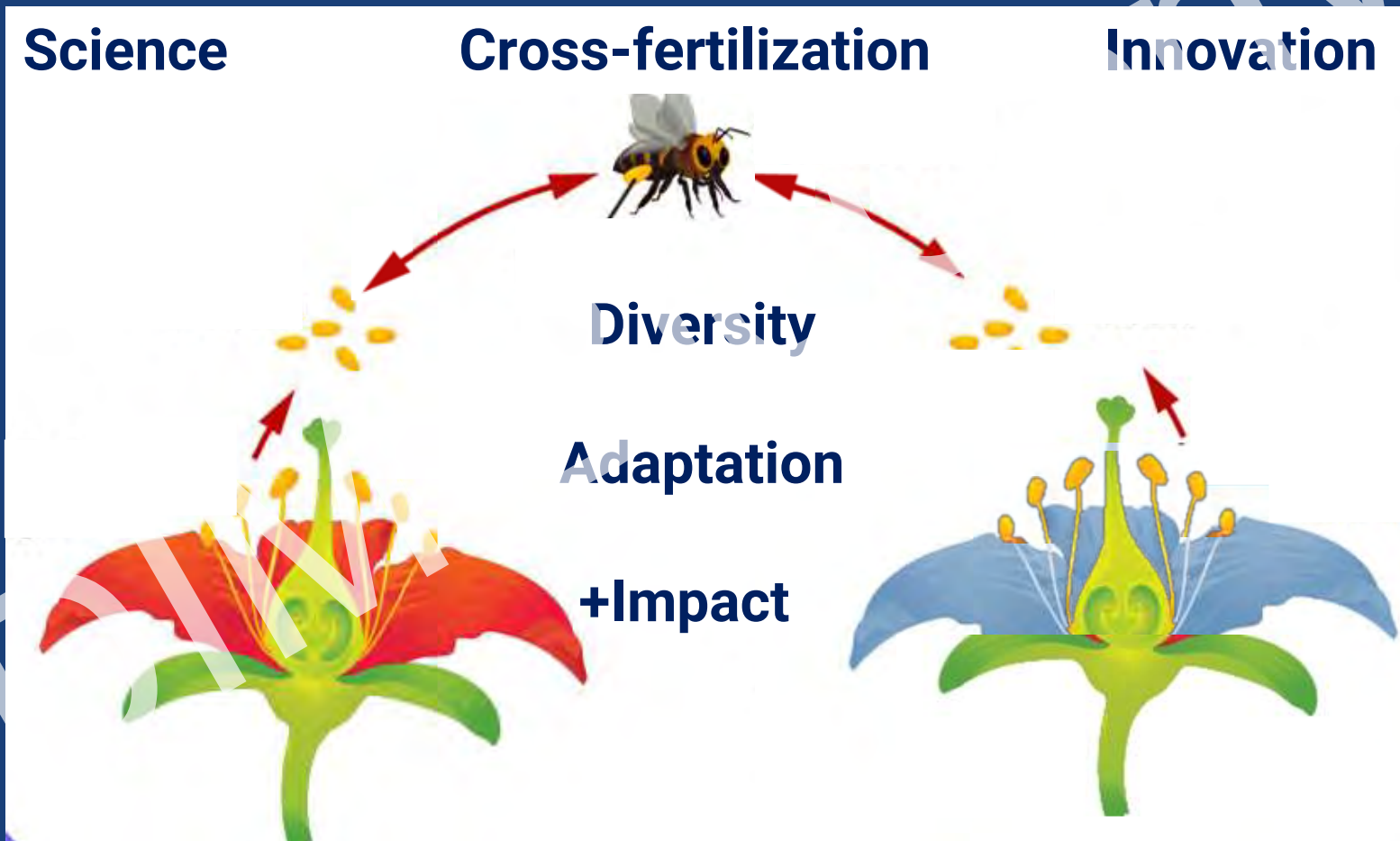
DIM BioConvs

NOW

Innovation Day

Understanding innovation with new eyes

Innovation – Why? **What?** How?



NOW

Innovation Day

Understanding innovation with new eyes

Innovation – Why? *What? How?*



NOW

DIM BioconvS Innovation Day

Innovation – *Why?* *What?* *How?*



NOW

DIM BioconvS Innovation Day

Innovation – Why? What? How?

Scientific discovery → Product /Service



blackbox

NOW

DIM BioconvS Innovation Day

Innovation – Why? What? How?

Scientific discovery → Product /Service

blackbox

Communication
Intellectual property
Licensing
Market
Ecosystem
Entrepreneurship

