Biotechnologie/ Bio-procédés

=> Appel (s) 2019-2020 visé(s) dans le(s) programme(s) de travail Bioéconomie, Climat ou NMBP d'Horizon 2020

$\Rightarrow$ Thématiques *: Biotechnologie ; Bioeconomie*

Session « Economie Circulaire » dans Horizon 2020
Paris, le 25 septembre 2018

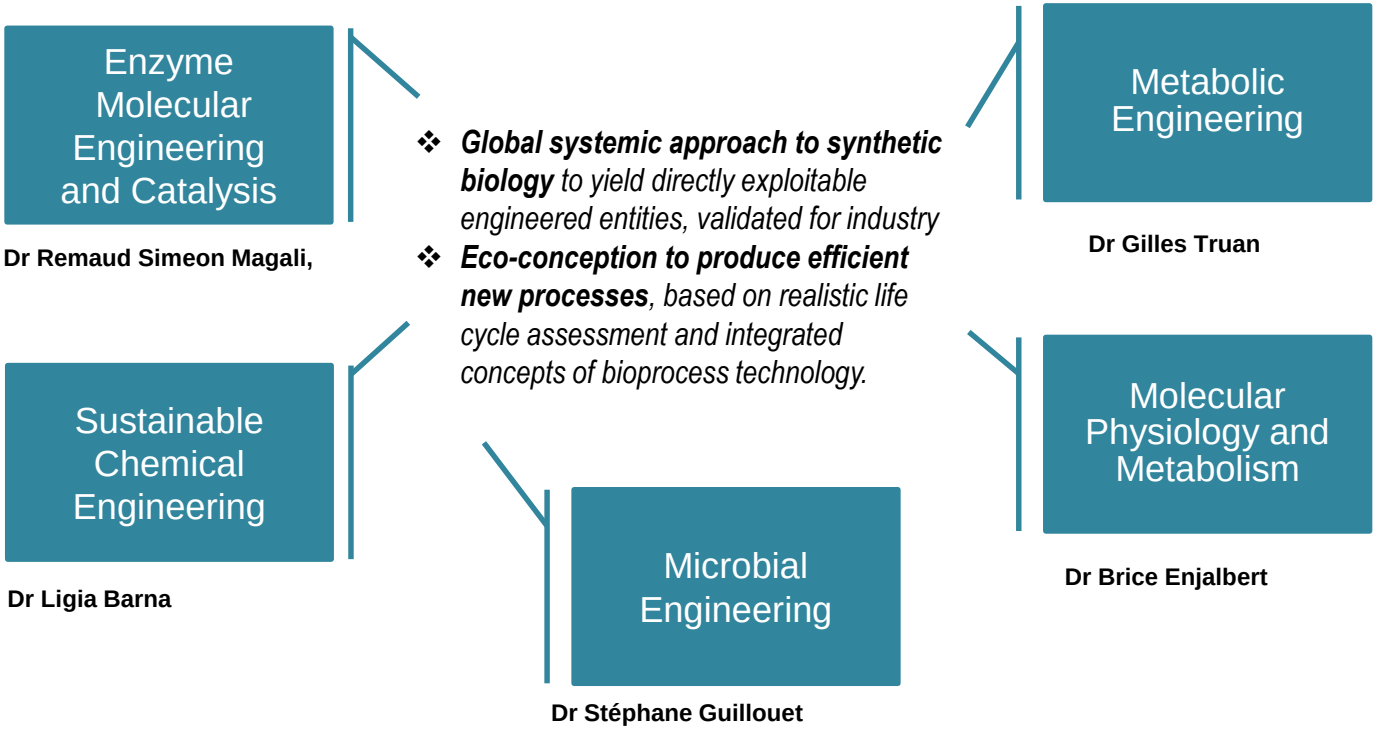
Laboratoire d'Ingénierie des Systèmes Biologiques et des Procédés
Laboratory for Biosystems and Chemical Engineering

LISBP

UMR INSA CNRS 5504 INRA 792

Dir : C. Molina Jouve, P. Loubière et V. Le Berre
direction_lisbp@insa-toulouse.fr

to meet challenges for the bioeconomy



300 pers, 80 PhD,
3 Technology platforms

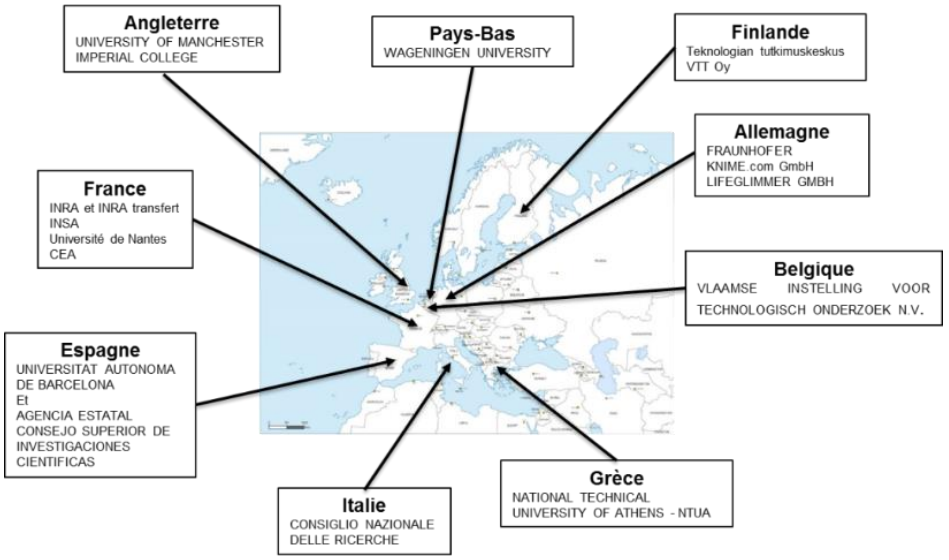
Technology Platforms

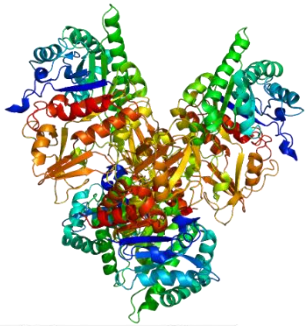
Transcriptome-Biochips - http://get.genotoul.fr
Expertise and technology for the analysis of gene expression. Development of innovative technology for future generations of chip-based analysis.

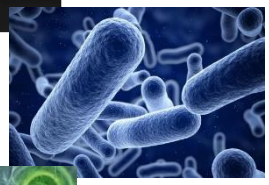
Engineering and Screening for Original Enzymes (ICEO) - http://cribligand.genotoul.fr
Combinatorial engineering to modify or improve existing enzyme properties in order to adapt the catalysts to specific conditions of use. Generation of large libraries of mutant genes. Metagenomic screening.

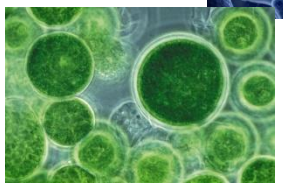
Metabolomics-fluxomics (MetaToul) - www.metatoul.genotoul.fr
Expertise and state-of-the-art fluxomics NMR and MS methodologies for the functional analysis of metabolic networks. Major focus on artefact-free approaches for the quantification of intracellular metabolite concentrations.

European network and project IBISBA-10
Resp. .M.O Donohue









- **Enzyme and Metabolic Engineering:** rational knowledge-driven improvement of a system's performance based upon in depth understanding of the underlying scientific mechanisms.

- **Systems Biology:** biological systems response in a complex and dynamic manner to their ambient environment.

- **(Bio)Chemical Engineering:** Understanding the fundamental interactions between physico-chemical-biological phenomena involved in (bio)processes to identify bottlenecks, deduce innovation and allow realistic integrated process development (scale up).

Basic researches with wide applications in Biofuels, Chemistry, Biomaterials, Health, Water resources…

Coordonnées

Personne à contacter	Claire Dumon ; Correspondant Europe
Organisation	LISBP INSA INRA CNRS
Adresse	135 avenue de Rangueil , 31077 Toulouse
Téléphone	05 61 55 94 93
Courriel	claire.dumon@insa-toulouse.fr

http://www.lisbp.fr/fr/index.html