



| Collaborative platform |

The abSYNTH Facility

FIELD OF ACTIVITY

- The design, construction and characterization of complex biological systems based on or inspired by living organisms but with functions that are not found in nature.

EQUIPMENT/FACILITIES

Design :

- /// An intensive calculation service (2.7 TFlops).
- /// A scientific software portal:
 1. sequence bank (*Xenopus*),
 2. BLAST server (specialized for *Xenopus*),
 3. prediction of promiscuity,
 4. calculation of molecular signatures,
 5. periodicities of co-regulated genes.

Construction :

- /// Molecular biology equipment for producing DNA clones.

Characterization:

- /// Microfluidics (under development) for :
 1. single-cell microscopic observation of prokaryotes,
 2. the development of custom-made chips (cell sorting, directed evolution).
- /// Fluorescence plate readers.
- /// Quantitative PCR systems.



Host laboratory Institute for Systems and Synthetic Biology (iSSB)

Supervisory body University Évry-Val-d'Essonne

Funding bodies UEVE - CNRS - CG91 - Genopole®

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ACCESS PROCEDURE

The facility can be accessed after prior submission of projects to a steering committee.

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