



BMBC168 is a shared platform for biochemistry, molecular biology and cell biology techniques in our department.

- Submit your project to the following address BMBC168@curie.fr and put your group leader/project leader in copy.

What we know how to do for you (or can help you do yourself):

Molecular Biology:

- Molecular cloning (digestion/ligation, InFusion ligation, Gateway cloning)
- Sequencing
- DNA purification (Maxi prep etc)
- PCR (DNA amplification)
- Mutagenesis
- Genomic DNA preparation
- qPCR (quantitative PCR)
- Microarrays
- FISH
- constructions for CRISPR

Protein Purification:

- Protein expression systems: E. coli, yeast (*S. cerevisiae*), baculovirus (in insect cells-Sf9), mammalian cells (Flp-In system HEK293 cells), cell-free protein expression
- Protein purification from tissues (brain, muscle...)
- Affinity chromatography using tags (His, GST etc)
- FPLC purification with or without tags
- Mass spectrometry analysis of proteins
- Purification of membrane proteins
- Basic techniques: SDS-PAGE gels, native gels, protein concentration by Bradford, protein labeling with fluorescent markers (Alexa etc)

Cell Biology Techniques:

- Transient transfection
- Stable cell line production (electroporation, lipofectants reagents, lentiviral/retroviral infection)
- Lentiviral production, concentration, titration, storage
- Immunofluorescence
- Confocal microscopy



Service Biologie Moléculaire, Biochimie et Cellules **UMR168 - Laboratoire Physico Chimie Curie**

- Flow cytometry (analyse and cell sorting)
- CRISPR
- Mycoplasma test
- ELISA test (checking absence viruses)
- STR authentication
- Microfabrication