



# Microarray Center

The Microarray Center aims at developing microarray-based collaborative projects in partnership with researchers in the academic, industrial or pharmaceutical community from Luxembourg and surrounding areas. The Center provides know-how and expertise in transcriptome analysis and protein arrays, design and fabrication of custom microarrays, statistical and bioinformatical analysis of microarray data. Besides scientific collaborations, the platform is accessible on a fee-for-service basis.

The platform has a full set of equipments and software allowing the handling and the analysis of large series of samples. Analyses run at the Microarray Center are carried out according to state-of-the-art and highly standardised procedures that comply with international guidelines (MIAME, MAQC).

The Microarray Center offers a full range of integrated services for gene expression studies that can be specifically tailored to users' need, including:

- Assistance with experimental design,
- RNA extraction, quality control and processing (amplification, labelling),
- Custom microarray design and fabrication,
- Microarray analysis using major commercial platform (Affymetrix, Agilent),
- Microarray data statistical analysis and quality control,
- Development of informatics tools for biostatistics and bioinformatics analysis of data
- Gene expression data mining,
- MIAME-supportive storage of microarray data in a specific databank,
- Updating of local copies of the main public biological databases.