

From invention to innovation

## SCIENTIFIC EXPERTISE

- Bioinformatics and biostatistical analysis of genomic and transcriptomic studies

## APPLICATIONS

Genome and Transcriptome analysis (human, mouse, rat, drosophila, dog, ...) using real-time PCR, microarrays and NGS.

## TRACK RECORD

- Molecular comprehension of Intestinal tumoral initiation (Levy et al)
- System biology approach for defining the molecular framework of the hematopoietic stem cell niche. (Charbord et al)
- Detection of ARMC5 mutations in macronodular adrenal hyperplasia (Assie et al)
- Molecular Characterization of Nonhemolytic and Nonpigmented Group B Streptococci Responsible for Human Invasive Infections (Six et al)

## PUBLICATIONS

Levy et al. *Nat Cell Biol.* 2015 Aug;17(8):1062-73  
 Assie G. et al. *N Engl J Med* 2013 Nov 28;369 (22)  
 Barboux S. et al. *Epigenetics.* 2012 Sep;7(9)  
 Six et al. *J Clin Microbiol.* 2016 Jan; 54(1):75-82

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## GENOMIC PLATFORM (GENOM'IC)

The platform provides expertise and core technologies in genomics. through certified Iso 9001 V2008 services

Genome ■ Transcriptome ■ Next Generation Sequencing (NGS) ■  
 Real Time PCR ■ Microarrays

## SERVICE DESCRIPTION

This certified ISO 9001-V2008 platform is specialized in Genome and Transcriptome analysis. It provides access to high-throughput sequencing technologies, real-time PCR and microarrays.

The platform offers personalized service, technical support and advice in experimental design and data analysis (Bioinformatics and Statistics).

For example, we could work on whole genome microarray analysis of gene expression to understand the molecular mechanisms involved in a pathophysiology or identify the molecular markers associated with a phenotype.

Another example, we could sequence set of genes to identify specific variants associated with particular pathology.



## OFFER

- Advice, expertise and support for the planning and achievement of projects in genomics and transcriptomics
- Integrated offer, from sample reception & preparation to statistical and functional data analysis through quality control service
- Quality control of RNAs samples
- Real-time PCR (TaqMan® chemistry): target gene expression analysis
- DNA-microarray (Affymetrix® technology): transcriptome analysis, Single Nucleotide Polymorphism (SNP) genotyping
- NGS sequencing (Ion torrent and Illumina technologies) : targeted gene sequencing, exome sequencing, transcriptome sequencing