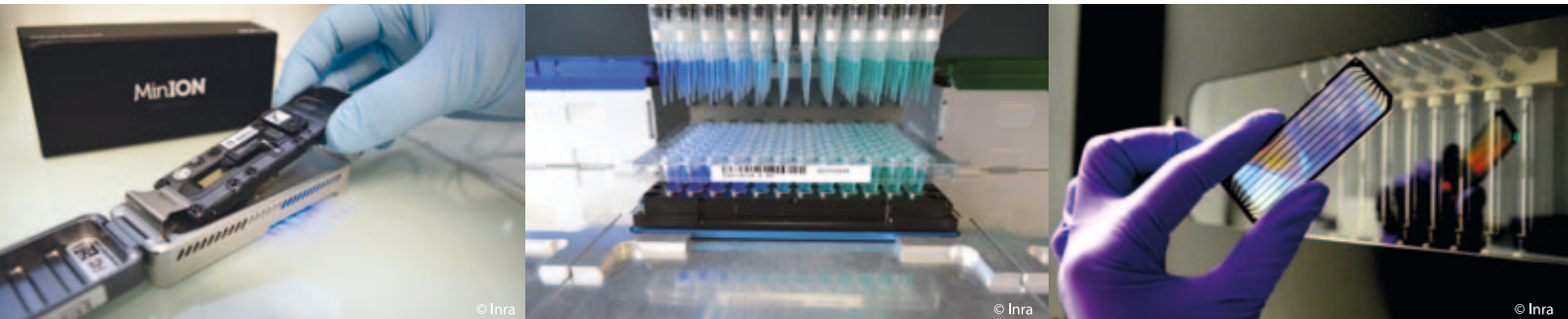


Genomics & Transcriptomics New Services

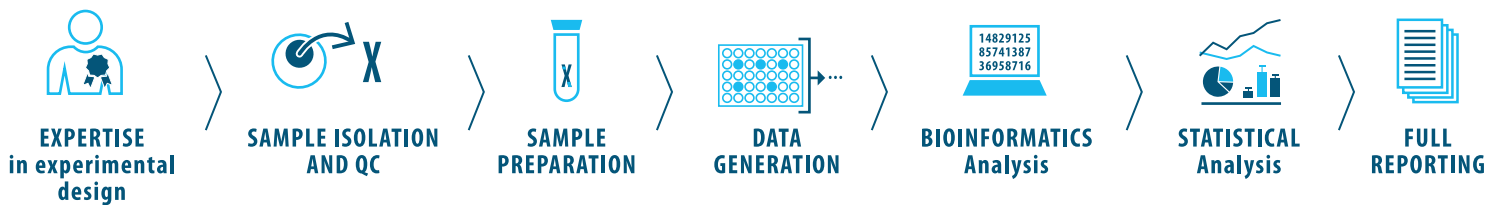


Expertise for your genomic analysis needs

MICROBIOLOGY AGRONOMY ENVIRONMENT DIAGNOSTIC HEALTH



COMPLETE WORKFLOW from samples to data analysis



HIGH-THROUGHPUT APPLICATIONS

		NGS		HT-QPCR	MICROARRAYS	
		SHORT READS	LONG READS			
	GENOMIC SEQUENCING	Whole genome sequencing	✓	✓		
		Targeted resequencing	✓			
		Exome sequencing	✓			
		Single molecule sequencing		✓		
		Haplotyping/Genome Phasing	✓			
	EPIGENOMICS	Bisulfite-seq	✓			
		Direct methylome analysis		✓		
		MicroRNA analysis				✓
	METAGENOMICS	Targeted barcoding (16S, ITS...)	✓			
		Whole metagenomes seq.	✓			
GENOTYPING	Targeted genotyping	✓		✓		
	By digesting the genome	✓				
	TRANSCRIPTOMICS	Expression profiling	✓	✓	✓	
		Microbial Transcriptome	✓			
	SINGLE CELL	DNA-SEQ	✓			
		EXPRESSION PROFILING	✓		✓	

Access to innovative technologies is also possible within research projects with our associated research laboratories

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<http://get.genotoul.fr/get-it>

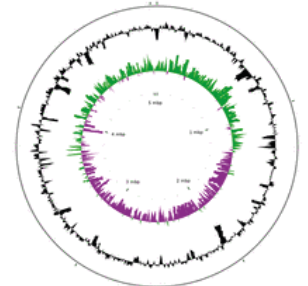




Examples of routine and tailored bioinformatic/biostatistic analyses

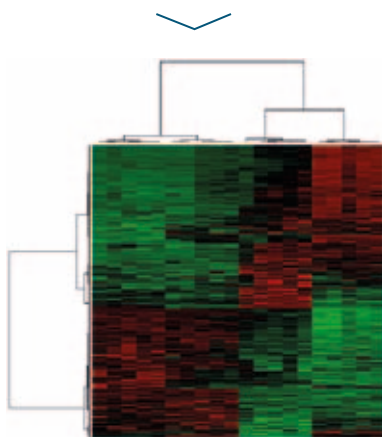
LONG READ SEQUENCING AND DE NOVO ASSEMBLY

SEQUENCING AND MAPPING FULL NEW GENOME OF MICROBIAL SPECIES
EX. *Xanthomonas* genome

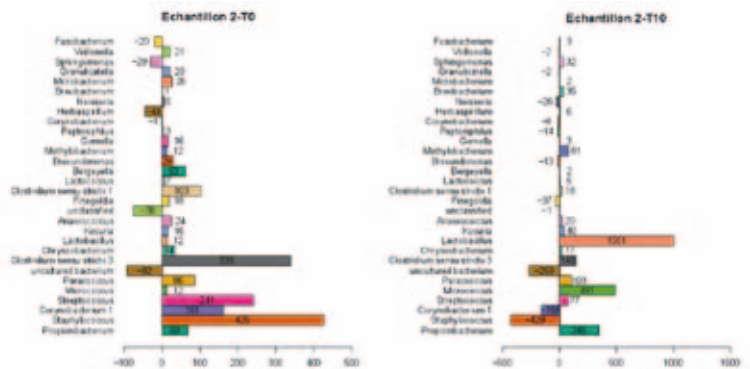


COMPREHENSIVE GENOMIC AND TRANSCRIPTOMIC ANALYSIS with Illumina NovaSeq6000, HiSeq3000 and MiSeq

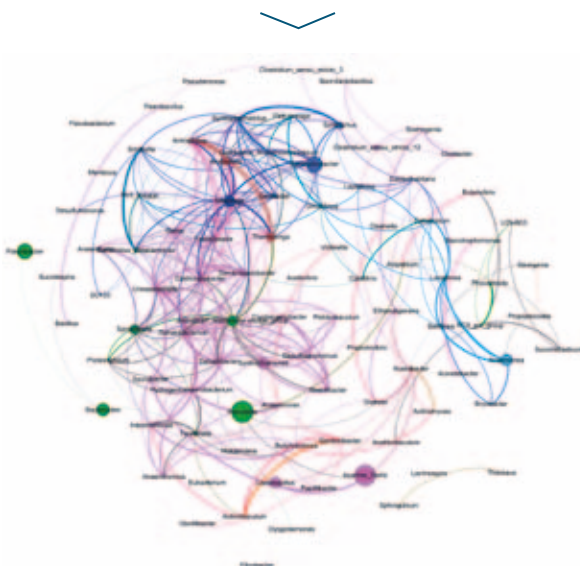
GENE EXPRESSION PROFILING



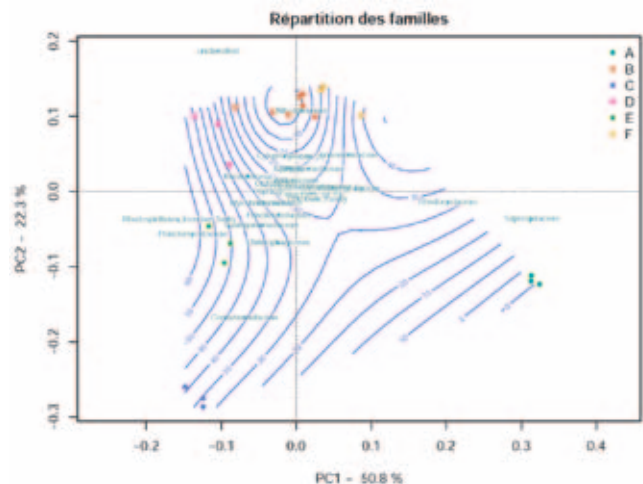
ABUNDANCE VARIATIONS OF BACTERIAL GENUS



EXPLORING CO-OCCURRENCE OF MICROBIAL GROUP IN COMPLEX ECOSYSTEMS



LINKING MICROBIAL DIVERSITY DATA WITH PERFORMANCE PARAMETER



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