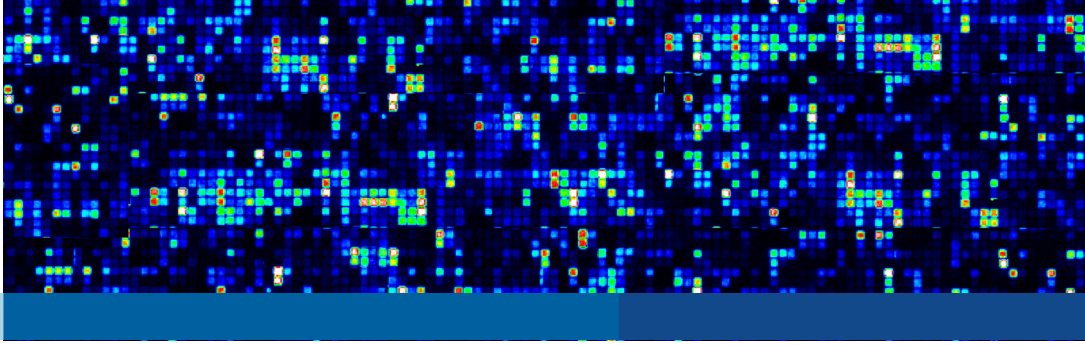
cogentech

Microarray



Overview

We perform gene expression profiling on total RNA, miRNA, mRNA from cells or tissues from human, mouse, rat and other species.

We perform genomic analysis on human samples for molecular karyotyping, copy number variation or genotyping, using high density Affymetrix® microarrays.

Service

We provide full support to research projects starting from the experimental design up to the analysis of the data. Our workflow can be integrated with customized amplification and labeling protocols to allow optimal analysis also in those cases where the starting material is limited or partially degraded (FFPE samples).

Innovation

We periodically revise our protocols to guarantee the highest performance. We implement new applications as soon as they become available to always keep in pace with technological advancements.

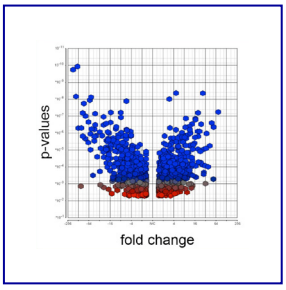
Quality

Our laboratory has been working with microarray technologies since 1999. We perform quality control on all samples during the entire workflow, and provide results according to MIAME guidelines.

Our laboratory is UNI EN ISO 9001:2008 certified (n. IT256850).

ISO 9001
BUREAU VERITAS
Certification

GENE EXPRESSION



Standard gene expression analysis

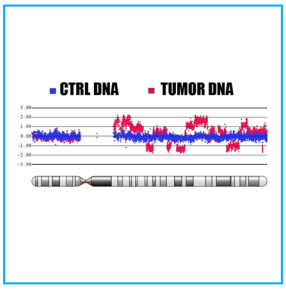
Detection and quantification of splice variants

Analysis of lincRNA

Analysis of mature miRNA and pre-miRNA

Special protocols for little starting material

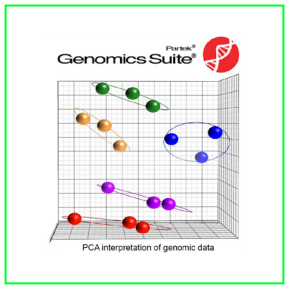
GENOMIC ANALYSIS



Cytoscan for genomewide analysis of:
- Copy Number Variation (CNV)
- Precise breakpoint mappingLoss of heterozygocity (LOH)
- Long contiguous stretches of homozygosity (LCSH)
- Uniparental Disomy (UPD) and Mosaicism

Oncoscan for genomewide analysis of FFPE samples:
- Copy Number Variation (CNV)
- Somatic Mutation Analysis of Cancer Genes

DATA ANALYSIS



Fold-change of differentially expressed genes

Enrichment/GO analysis

Reporting of genomic findings

Statistics

Data Visualization

Annotation

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