

POSTER PRESENTATION

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The UofL Microarray Facility: merger and new location

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Background

The UofL Microarray Facility is centered around the currently most advanced and comprehensive instrumentation for oligonucleotide array platforms by Affymetrix, Inc. and Agilent, Inc., both merged in the new location in CTR 227H-G. These technologies allow determination of global RNA gene expression and SNP (single nucleotide polymorphism) profiles based on hybridization of entire representative mRNA or genomic DNA populations to high-density arrays of gene-specific or mutation-specific oligonucleotide probes. Such global profiles can be obtained for tens of thousands of genes or hundreds of thousands of SNP loci from cell or tissue samples within one time-saving and standardized experiment. Comparative analysis of global gene expression or SNP patterns on biological material will provide crucial information on gene products and/or mutations which are involved in cellular functions, disease mechanisms, and therapy responses. Both cell culture, tissue, or microdissected cell material from human or various animal sources can be used for analyses. The objective of the UofL Microarray Facility is to ensure that investigators can efficiently adopt these state-of-the-art technologies for their basic science, clinical, and translational investigative goals. The Facility is registered as Academic Core Account and receives discounts for arrays and software licenses.

Basic services:

- RNA expression profiling
- Single-nucleotide polymorphism genotyping
- Splice variation analyses
- microRNA profiling
- Quantitative and qualitative nucleic acid analysis
- DNA sequencing

The Facility also provides DNA sequencing services and offers assistance with quantitative and qualitative nucleic acid analysis using the Agilent BioAnalyzer Lab-on-Chip Technology and the Nanodrop ND-1000 low-volume spectrophotometer. The Facility also provides free access to the most current statistics and data analysis software versions of *Partek Genomics Suite*, *Ingenuity*, and *Genespring*.

NEW LOCATION

The merged Microarray Facility is now located in Rooms 227F-H of the new CTR Building, 505 South Hancock Street.

Website

<http://louisville.edu/research/genomics/>

Contacts

Please visit our website for details and pricing, or contact us:

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