

NIH Neuroscience Microarray Consortium

The NIH Neuroscience Microarray Consortium is a group of four facilities chosen for their outstanding resources and their diverse range of microarray platforms. The Consortium gives NIH-funded neuroscience researchers cost-effective access to state-of-the-art microarray technology for gene expression profiling and SNP genotyping in diverse model organisms. The goal of the initiative is to promote basic and translational research by producing and sharing high-quality genomic data.

The National Institute of Neurological Disorders and Stroke (NINDS) and the National Institute of Mental Health (NIMH) originally established the Consortium, and the Blueprint initiative began contributing funds in FY2005. This gives grantees from all Blueprint Institutes and Centers access to the Consortium resources on a fee-for-service basis.

Resources:

Consortium Centers (<http://arrayconsortium.tgen.org/>)

- Duke University, Durham, NC
- Translational Genomics Research Institute (TGen), Phoenix, AZ
- University of California, Los Angeles, CA
- Yale University, New Haven, CT

Microarray Platforms

- Affymetrix
- Illumina — Illumina Genome Analyzer (sequencing)
- Agilent — Spotted Arrays (cDNA, oligonucleotide, miRNA)

Other Services

- Laser Capture Microdissection
- Experimental design assistance prior to project submission
- Data analysis support via statistical software packages and online and on-site training
- Data sharing via the Consortium online databases
- Education and training that emphasize experimental design, technical procedures, and data analysis techniques specific to neuroscience research
- Manuscript assistance and consultation

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