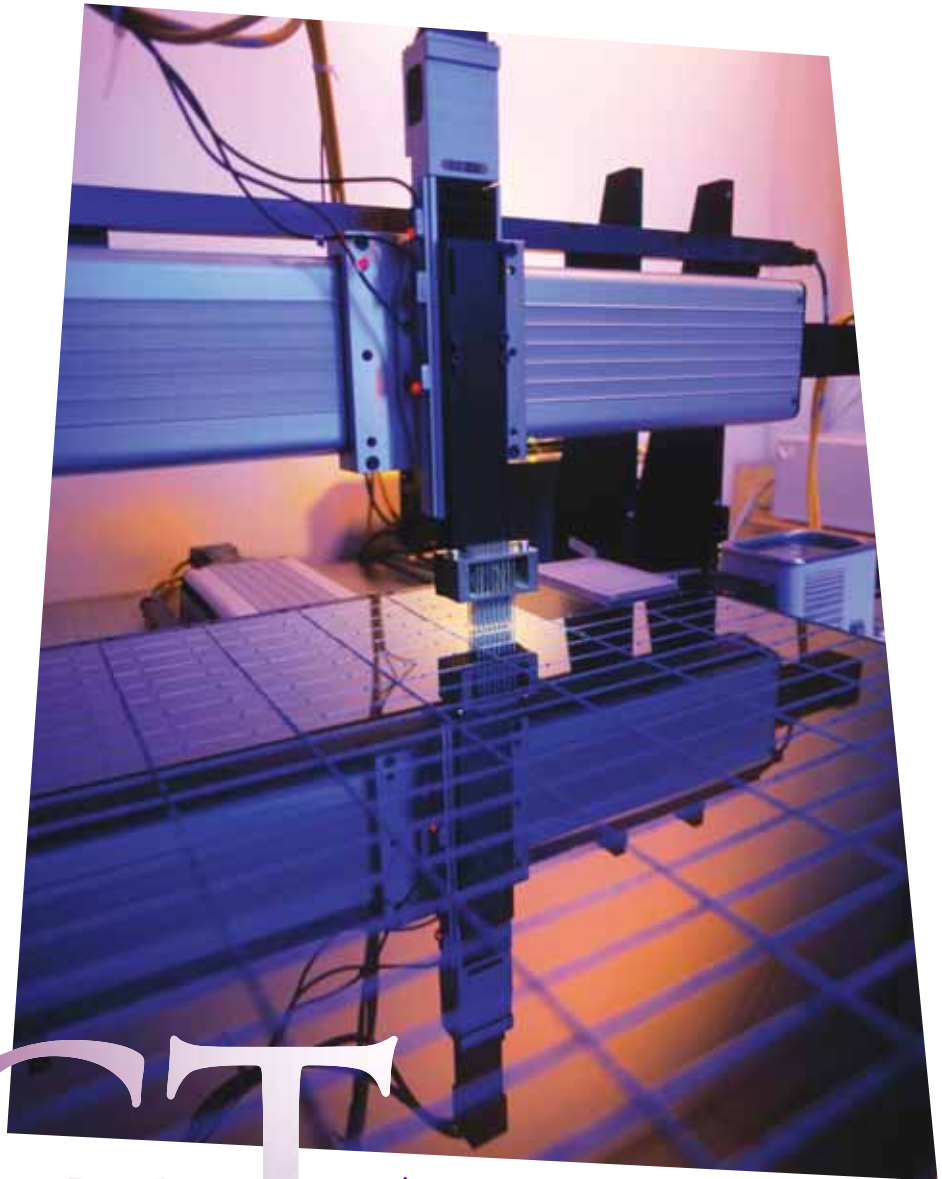


MICHIGAN CENTER FOR GENOMIC TECHNOLOGIES

The MCGT consists of Wayne State University–Applied Genomics Technology Center, Michigan State University–Department of Biochemistry and Molecular Biology, University of Michigan–Department of Psychiatry/Mental Health Research Institute, and the Van Andel Research Institute. Our goal is to advance the understanding of gene structure/function through an integrated and synergistic consortium of scientists from Michigan biotech, healthcare and academic settings. The technology focus is on gene expression profiling with microarray gene chips. High-throughput information mining of complex gene expression profiles will eclipse the era of isolated reductionist biology and provide a critically important scientific platform in Michigan Biotechnology.



MCGT



A DNA Microarrayer
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MCGT

SERVICES

Oligonucleotide

GeneChip Microarrays

- Through the MCGT, Michigan-based researchers have access to Affymetrix GeneChip microarrays for their research enterprise. Affymetrix manufactures probe arrays that contain tens of thousands of oligonucleotide probes on each array or GeneChip. These are provided in human, rat, mouse, drosophila, arabidopsis and other specialized clonesets. Researchers provide samples and "target" RNA is produced to hybridize to the GeneChips.

Custom cDNA Microarrays

- Each component of the MCGT maintains a variety of clone sets that can be used for custom microarrays (including human, rat, mouse, etc). Each of the participating institutions is able to assist scientists to access this technology and to help them use either generic printed arrays or develop and produce custom designed arrays.

Other Services

- DNA sequencing, genotyping and quantitative PCR are also available at the WSU and MSU sites.

EQUIPMENT

- Affymetrix GeneChip System (Hewlett-Packard GeneArray Scanner, GeneChip Fluidics Stations, GeneChip Workstation System, GeneChip Hybridization Oven), robotic microarray printers and imaging equipment are located at Wayne State University, Michigan State University, University of Michigan and the Van Andel Institute. These institutions also have a full suite of molecular genomic tools for processing clones, as well as analyzing and printing them to glass arrays.

ACCESS

- Typically, samples are submitted to MCGT laboratories on a fee-for-service basis. The highly technical nature of genomic research precludes individual access to equipment and facilities.

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