

ORNL Microarray Facilities

- In house custom software and expertise for the design of various types of microarrays (e.g. CommOligo - Li, X. et al. NAR. 2005).
- Robotic fluid handling systems for cDNA array PCR reaction setup, and plating of probes for both cDNA and oligo based microarray printing.
- Climate-controlled clean room and three printing systems for microarray production runs of 10s to 100s of slides.
- Single and batch scanners for data acquisition that are compatible with arrays from the commercial vendors.
- Analysis software and expertise (e.g. Imagene, GeneSpring, JMP Genomics).
- We also have access to a local Affymetrix core at UT.

Cont. over



Whole Genome Microarrays

***Zymomonas mobilis* ZM4** <http://cmr.tigr.org/tigr-scripts/CMR/GenomePage.cgi?org=ntzm01>

***Clostridium thermocellum* ATCC 27405** <http://genome.ornl.gov/microbial/cthe/06jun06/>

***Desulfovibrio desulfuricans* G20** http://genome.jgi-psf.org/finished_microbes/desde/desde.home.html

***Desulfovibrio vulgaris* Hildenborough** http://cmr.tigr.org/tigr-scripts/CMR/GenomePage.cgi?org_search=&org=gdv

***Nitrosomonas europaea* ATCC 19718** http://genome.jgi-psf.org/finished_microbes/niteu/niteu.home.html

***Rhodopseudomonas palustris* CGA009** http://genome.jgi-psf.org/finished_microbes/rhopa/rhopa.home.html

***Shewanella oneidensis* MR-1** <http://cmr.tigr.org/tigr-scripts/CMR/GenomePage.cgi?org=gsp>

***Deinococcus radiodurans* R1** <http://cmr.tigr.org/tigr-scripts/CMR/GenomePage.cgi?org=gdr>

***Exiguobacterium* strain 255-15** http://genome.jgi-psf.org/draft_microbes/exigu/exigu.home.html

***Geobacter metallireducens* GS-15** http://genome.jgi-psf.org/finished_microbes/geome/geome.home.html

***Desulfitobacterium hafniense* DCB-2** http://genome.jgi-psf.org/draft_microbes/desha/desha.home.html

***Methanococcus maripaludis* S2** <http://cmr.tigr.org/tigr-scripts/CMR/GenomePage.cgi?database=ntmm04>