Affymetrix GeneChips® for Agricultural Research Applications

Finding your gene(s) of interest can be like looking for a needle in a haystack...

µA
UHN Microarray Centre

Are you looking for a needle in a haystack?!?

We can help!

AFFYMETRIX | Authorized Service Provider

The University Health Network Microarray Centre (UHNMAC) offers gene expression services using the commercially available Affymetrix GeneChip® platform.

GeneChip® products for crop and agricultural animal species enable researchers to easily identify genes that are involved in disease control/resistance, stress tolerance and response to environmental factors, nutritional characteristics, and reproductive development.

The UHNMAC offers a full Affymetrix service that includes everything from RNA labelling to data analysis, at a reasonable cost. Please visit our website (www.microarrays.ca) or contact our Affymetrix Service Coordinator, Monika Sharma (affymetrix@microarrays.ca) for more information.

Crop Studies

* Citrus Genome Array (represents 33k citrus transcripts including several citrus species, hybrids, and citrus pathogens)
* Maize Genome Array (comprehensive coverage of over 100 cultivars; 14.8k *Zea mays* transcripts)

  Medicago Genome Array (61k probe set including *M. truncatula*, *M. sativa*, and symbiotic organism *Sinorhizobium meliloti*)

  Rice Genome Array (over 51k *Oryza sativa* transcripts; japonica and indica cultivars)
* Soybean Genome Array (37k *Glycine max* transcripts and transcripts for 2 important soybean pathogens, *Phytophthora sojae* and *Heterodera glycines*)
* Tomato Genome Array (represents 9.2k transcripts for *Lycopersicon esculentum*)
* *Vitis vinifera* (Grape) Genome Array (14k *Vitis vinifera* transcripts and 1.7k transcripts from other *Vitis* species)
* Wheat Genome Array (represents 55k transcripts for all 42 chromosomes of wheat genome)
* Barley Genome Array (available through Made-to-Order Program; designed and funded by the USDS-IFAFS Triticeae Improvement Group in collaboration with international barley community)

Animal Studies

* Bovine Genome Array (over 23k bovine transcripts)
* Chicken Genome Array (comprehensive coverage of 32k *Gallus gallus* transcripts and 684 transcripts from 17 avian viruses)
* Porcine Genome Array (over 23k *Sus scrofa* transcripts)

* Indicates GeneChips that were designed in collaboration with research community as part of the Affymetrix GeneChip Consortia Program (http://www.affymetrix.com/community/research/consortia.affx)

http://www.microarrays.ca/services/affyservice.html