

DNA microarray

A DNA [microarray](#) (also commonly known as DNA chip or biochip) is a collection of microscopic [DNA](#) spots attached to a solid surface. Scientists use DNA microarrays to measure the expression levels of large numbers of [genes](#) simultaneously or to [genotype](#) multiple regions of a [genome](#). Each DNA spot contains picomoles (10–12 moles) of a specific [DNA sequence](#), known as probes (or reporters or oligos). These can be a short section of a gene or other DNA element that are used to hybridize a [cDNA](#) or [cRNA](#) (also called anti-sense RNA) sample (called target) under high-stringency conditions. Probe-target hybridization is usually detected and quantified by detection of fluorophore-, silver-, or chemiluminescence-labeled targets to determine relative abundance of [nucleic acid](#) sequences in the target. The original nucleic acid arrays were macro arrays approximately 9 cm × 12 cm and the first computerized image based analysis was published in 1981.

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