

## MICROARRAY TECHNOLOGY AND CANCER GENE PROFILING%0A

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[Microarrays for Cancer Diagnosis and Classification ...](#)  
We then highlight the importance of publicly available microarray data and the development of their integrated analysis that may fulfill the promise that this new technology holds for cancer diagnosis and classification.  
[Application of microarray in breast cancer: An overview](#)  
Microarray Technology. Basic principle of microarray is base-pairing and hybridization [Figure 1]. DNA microarray platforms for gene expression profiling were invented relatively recently, and breast cancer has been among the earliest and most intensely studied disease using this technology.  
[Gene expression profiling in cancer - Wikipedia](#)  
Cancer is a disease characterized by uncontrolled cell growth and proliferation. For cancer to develop, genes regulating cell growth and differentiation must be altered; these mutations are then maintained through subsequent cell divisions and are thus present in all cancerous cells. Gene expression profiling is a technique used in molecular biology to query the expression of thousands of genes simultaneously. In the context of cancer, gene expression profiling has been used to more accurately c  
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MicroArray Technology - Expression Profiling of MRNA and MicroRNA in Breast Cancer 89 CpG arrays (Yan et al , 2000) can be used to determine whether patterns of specific  
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Get this from a library! Microarray technology and cancer gene profiling. [Simone Mocellin,] -- Cancer is a heterogeneous disease in most respects, including its cellularity, different genetic alterations and diverse clinical behaviors. Traditional molecular analyses are reductionist, assessing  
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an exponential increase in our understanding of breast cancer molecular biology. Gene expression profiling using

microarray technology was first introduced in 1995 (Schemm et al, 1995). This technology enables the measurement of expression of tens of thousands of mRNA sequences simultaneously and can be used to compare gene expression within a sample or across a number of samples. Microarray

#### 9780387399782 - Microarray Technology and Cancer Gene ...

Microarray Technology and Cancer Gene Profiling the implementation of DNA array technology in cancer research has already provided investigators with novel data and intriguing new hypotheses on the molecular cascade leading to cancerogenesis, tumor aggressiveness and sensitivity to antineoplastic agents. Given the revolutionary implications that the use of this technology might have in the

#### Applications of microarray technology in breast cancer ...

Microarrays provide a versatile platform for utilizing information from the Human Genome Project to benefit human health. This article reviews the ways in which microarray technology may be used in breast cancer research. Its diverse applications include monitoring chromosome gains and losses

#### Application of Microarrays to the Analysis of Gene ...

Microarray technology has been widely used in the past 3 years to investigate tumor classification, cancer progression, and chemotherapy resistance and sensitivity. In this section we provide three examples to demonstrate that expression arrays can be used to gain a better understanding of the basic biology, diagnosis, and treatment of cancer.

#### Microarray Technology: An introduction to DNA Microarray

Now, with the evolution of microarray technology, it will be possible for the researchers to further classify the types of cancer on the basis of the patterns of gene activity in the tumor cells. This will tremendously help the pharmaceutical community to develop more effective drugs as the treatment strategies will be targeted directly to the specific type of cancer.