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The genome-wide gene expression profiling were conducted in 10 pairs of cancer tissues and corresponding normal adjacent tissues samples using Affymetrix GeneChip® Human Genome

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GÖHLMANN , H. and TALLOEN , W. Gene Expression Studies Using Affymetrix Microarrays . CRC Press , Boca Raton , Florida , 2009 . xxiii + 327 pp. \$89.95/£54.99. ISBN 9781420065152 . Gene expression microarray technology allows monitoring the transcriptional activity of thousands of genes simultaneously, and microarray studies have been used in many fields of sciences and biomedical research ...

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GENE EXPRESSION STUDIES USING AFFYMETRIX MICROARRAYS  
Chapman & Hall/CRC ISBN: 978-1-4200-6515-2 Publication Date:  
July 2009 Number of Pages: 327 Language: English The book is  
interdisciplinary and bridges the gap between molecular biology,

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bioinformatics and biostatistics. It describes the gene expression microarray

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mouse whole-genome microarrays analyze the expression level of up to 47,000 transcripts and variants.

## **Expression Profiling Using Affymetrix GeneChip® Probe**

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About the Author. Todd Allen is an associate professor of biology at HACC-Lancaster. His interest in computational biology using Mathematica took shape during his postdoctoral research years at the University of Maryland, where he developed a custom cDNA microarray chip to study gene expression changes in the fungal pathogen *Cryphonectria parasitica*.

## **Detecting Differential Gene Expression Using Affymetrix**

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Affymetrix microarray solutions include necessary components for a microarray experiment, from arrays and reagents to instruments and software, enabling scientists and clinicians to

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understand, identify, create, and improve genetic marker-assisted breeding programs in agriculture for human health and wellness.

## **Affymetrix | Thermo Fisher Scientific - IN**

At this writing, most published gene expression studies use Affymetrix GeneChips, spotted cDNA arrays or spotted long-oligonucleotide arrays. However, new approaches are still evolving, such as the recently introduced long-oligonucleotides bead-based array by Illumina, Inc. ( 1 ).

## **Experimental comparison and cross-validation of the ...**

Background: Affymetrix high density oligonucleotide expression arrays are widely used across all fields of biological research for measuring genome-wide gene expression. An important step in processing oligonucleotide microarray data is to produce a single value for the gene expression level of an RNA transcript using



## **Methods for evaluating gene expression from Affymetrix**

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We made a thorough performance comparison of the three most recent human gene expression chips available from Affymetrix: Human Genome U133 Plus 2.0, Human Exon 1.0 ST and Human Gene 1.0 ST. First, we have compared reproducibility at the probe-, exon- (where possible) and gene-level using publicly available data on technical and biological replicates.

## **A comparison of Affymetrix gene expression arrays**

Affymetrix high density oligonucleotide expression arrays are widely used across all fields of biological research for measuring genome-wide gene expression. An important step in processing oligonucleotide microarray data is to produce a single value for the gene expression level of an RNA transcript using one of a

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Flexible—supports gene expression and genotyping studies on multi-format array plates. ... Alternately, you may build automated primary analysis pipelines for a completely automated workflow, using Affymetrix Power Tools Software and the data transfer tools provided with the instrument control software.

## **GeneTitan Multi-Channel (MC) Instrument | Thermo Fisher**

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Processing Affymetrix Gene Expression Arrays Analyzing Affy microarrays with Bioconductor is "relatively" easy, particularly if all you want is to get the gene expression matrix. Once you have the gene expression values, much of the analysis techniques

that can be used for RNA-Seq analysis can also be used for microarrays.

### **Homer Software and Data Download**

Microarrays are performed using the Affymetrix ® Platform. Gene expression arrays that provide estimates of mRNA levels in tumors have given rise to exon-specific arrays that can identify both gene expression levels, alternative splicing events and mRNA processing alterations.

### **Affymetrix Technology - Augusta University**

We designed and conducted a comparative study to answer the question whether gene expression data generated with Affymetrix U133A microarrays, four years past their expiration date, are useful and reliable. Figure 1 depicts the overview of the study, the experimental procedures, data used, and comparative analyses applied.

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