



# Microarray Technology: Applications, Analysis of Data, Clustering Analysis

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## What Is Microarray

- Microarray technology is qualitative or quantitative technique of measuring the gene expression
- Microarrays are microscope slides that contain an ordered series of samples (DNA, RNA, protein, tissue).
- Predecessor of this technology were dot blots, slot blots and macroarray with membranes used as platforms
- The use of a collection of distinct DNAs in arrays for expression profiling was first described in 1987

# Microarray Technology And Its Applications

**K Morrison**



## **Microarray Technology And Its Applications:**

**Microarray Technology and Its Applications** Uwe R. Müller, Dan V. Nicolau, 2006-03-30

It has been stated that our knowledge doubles every 20 years but that may be an understatement when considering the Life Sciences. A series of discoveries and inventions have propelled our knowledge from the recognition that DNA is the genetic material to a basic molecular understanding of ourselves and the living world around us in less than 50 years. Crucial to this rapid progress was the discovery of the double helical structure of DNA which laid the foundation for all hybridization based technologies. The discoveries of restriction enzymes, ligases, polymerases combined with key innovations in DNA synthesis and sequencing ushered in the era of biotechnology as a new science with profound sociological and economic implications that are likely to have a dominating influence on the development of our society during this century. Given the process by which science builds on prior knowledge it is perhaps unfair to single out a few inventions and credit them with having contributed most to this avalanche of knowledge. Yet there are surely some that will be recognized as having had a more profound impact than others not just in the furthering of our scientific knowledge but by leveraging commercial applications that provide a tangible return to our society. The now famous Polymerase Chain Reaction or PCR is surely one of those as it has uniquely catalyzed molecular biology during the past 20 years and continues to have a significant impact on all areas that involve nucleic acids ranging from molecular pathology to forensics. Ten years ago microarray technology emerged as a new and powerful tool to study nucleic acid sequences in a highly multiplexed manner and has since found equally exciting and useful applications in the study of proteins, metabolites, toxins, viruses, whole cells and even tissues.

**Microarray Technology and Its Applications** Uwe R. Müller, Dan V. Nicolau, 2005. The genomics revolution would not have been possible without the parallelisation offered by microarray technology. This technological and commercial success has been since emulated by other applications areas with a tremendous amplification of innovation. This book describes the fundamentals and latest developments in microarray technology as well as its future directions. It presents detailed overviews of the different techniques of fabricating microarrays of the chemistries and preparative steps involved of the different types of microarrays and of the instrumentation and optical issues involved.

**The Creation of a Microarray Data Analysis System and Its Application to HTLV-I-induced Transformation** Jody Lynn Fink, 2002. **Computational Science and Its Applications**, 2003. **Applied Genomics and Proteomics**, 2002. Protein Microarray Technology Dev

Kambhampati, 2004-03. Protein microarrays soon will become one of the major tools for realizing the goals of drug discovery research in the post genome era. The book is aimed at life science researchers and scientists working in drug and pharmaceutical industry. The Applications of Bioinformatics in Cancer Detection Asad Umar, Izet Kapetanovic, Javed Khan (M.D.), 2004. The state of the science of bioinformatics that is application of computer processes to solving biological problems and its potential for assisting early cancer detection, risk assessment and risk reduction form the focus of this volume. **A Novel Hybrid**

**Manufacturing Process for the Highly Specific and Programmed Assembly of Nanostructures on Surfaces** Balaji Kannan,2005    **Microarrays and Combinatorial Technologies for Biomedical Applications** Dan V. Nicolau,Ramesh Raghavachari,2003    *BioMEMS and Nanotechnology* ,2006    **Array-based Comparative Genomic Hybridization in Phylogenetics and Its Application for Discovery of Rapidly Evolving Genes** Luz Beatriz Gilbert,2008    *Henry's Clinical Diagnosis and Management by Laboratory Methods* John Bernard Henry,2007 Rev ed of Clinical diagnosis and management by laboratory methods edited by John Bernard Henry 20th ed c2001    *Progress in the Reduction, Refinement, and Replacement of Animal Experimentation* Michael Balls,A-M. Zeller,Marlies E. Halder,2000 Hardbound New legislation enacted in many countries and regions of the world during the 1980s requires that laboratory animal use be reduced refined and replaced wherever possible for ethical and scientific reasons in line with the Three Rs concept put forward by W M S Russell and R L Burch in 1958 in *The Principles of Humane Experimental Technique* This Congress provided an opportunity for a celebration of the 40th anniversary of the publication of this book and for a coming together of many of those who are actively pursuing the implementation of the Three Rs in the interests of good science and humane science Current uses and future prospects for the use of laboratory animal procedures and non animal methods in the biomedical sciences are considered in five themes the development of replacement alternative methods the validation and regulatory acceptance of alternative test methods reduction alternatives and the test    *Microarray Data* Shailaja R. Deshmukh,Sudha G. Purohit,2007 Functional Genomics a branch of bioinformatics is essentially an interdisciplinary subject in which biologists statisticians and computer experts interact to analyze the microarray data This book caters to the needs of all the three disciplines For biologists and computer scientists it explains concepts of statistics and statistical inference For Biologists and Statisticians it provides annotated R programs to analyze microarray data For Statisticians and Computer scientists it explains basics of biology relevant to microarray experiment Thus the book will be useful to scientists from all the three disciplines with not much knowledge of other disciplines to analyze microarray data and interpret the results    **A Review of Microarray Technology and Its Applications in Molecular Pathology** Gregory Howard Pritham,2001    A Bioinformatics Discovery-oriented Computing Framework Jake Yue Chen,2001    Life Science Automation Fundamentals and Applications Mingjun Zhang,Bradley J. Nelson,Robin Felder,2007 This comprehensive resource provides a solid grounding in life science and automation engineering essentials and describes state of the art techniques for the design and development of sensors and actuators lab on a chip and bio MEMs platforms and more    Nutrition ,2000    Soybeans H. Roger Boerma,James Eugene Specht,2004 The complete sourcebook for soybean information this monograph combines concise information and the scope of a monograph Topics include morphology production disease management genomics and genetic improvement economics and marketing processing and use and even the role of soybean in human health Soybean is a global crop and the contents of this edition span the breadth of its worldwide significance    *Identification of Novel STAT5*

*Target Genes in Human T-cells* Michelle M. Fung, 2005 As a major growth factor of T cells interleukin 2 IL 2 promotes among other biological effects cell proliferation and anti apoptosis These biological consequences are thought to occur via IL 2 activation of signal transduction pathways such as the Ras ERK PI3K and JAK STAT pathways which transmit signals from the IL 2R to the nucleus resulting in gene expression Under normal circumstances these pathways work to promote T cell clonal expansion which is critical to the successful mounting of an immune response However infection of T cells by human T cell leukemia type I HTLV 1 can lead to constitutive activation of these signaling cascades and ultimately IL 2 independent T cell growth Much of the effects of HTLV 1 have been attributed to a viral oncoprotein called Tax which affects cellular and viral transcriptional regulation cell cycle control DNA repair and apoptosis The work presented in this dissertation was aimed at investigating the signaling pathways activated by IL 2 in primary human T cells and Tax immortalized human T cells IL 2 induced gene expression and its regulation by the transcription factor STAT5 was also studied in both cell types The data demonstrate that IL 2 activates the Ras ERK PI3K and JAK STAT pathways in primary human T cells to promote cell proliferation and that significant crosstalk exists between them in the form of PI3K 2 MEK ERK 2 STAT3 Interestingly IL 2 activation of all these pathways was not observed in Tax immortalized cells as only STAT5 activation was detected A systematic computational approach that coupled microarray analysis to transcription factor binding site prediction was subsequently performed to evaluate STAT5 regulated gene expression in response to IL 2 stimulation in both cell types Primary human T cells exhibited numerous genes modulated by the growth factor of which several were predicted to be regulated by STAT5 due to possession of a putative STAT5 binding site Many genes were also found to be regulated by IL 2 in Tax immortalized cells Interestingly several of them including the cytokines il 5 il 9 and il 13 were unique to these cells and discovered to be STAT5 targets Taken together the results presented here provide an increased understanding of the molecular mechanisms induced by IL 2 stimulation in primary human T cells and Tax immortalized cells as well as demonstrate how bioinformatics provides valuable tools for scientific discovery

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