



Structural Biology & Functional Genomics Lecture Series

Seminar Announcement

(Department of Biological Sciences & Office of Life Sciences)

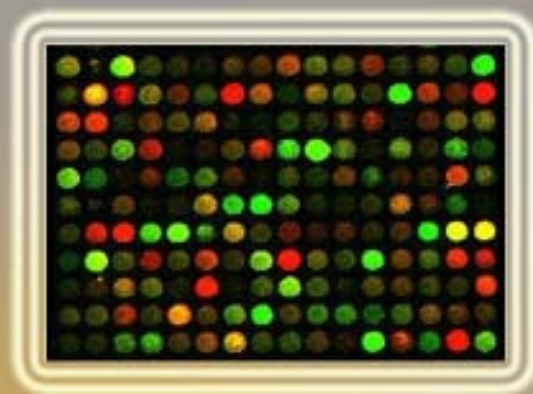


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Optimal DNA microarray experimental design and data analysis

cDNA/oligo microarrays provide simple and economical ways to explore gene expression patterns on a genomic scale, and are used by an increasing number of biologists. In comparison to conventional methods, microarray technology can be used for guided gene discovery, meaning that microarray data are used to select handful genes out of the whole genome. This selection process involves two stage classifications: 1) classification of genes as differentially or non-differentially expressed and 2) classification of genes as biomarkers or non-marker genes. Since microarray chips are still quite expensive, the question arises how to obtain maximal information from a limited number of microarray chips. We try to ask this question by applying/developing validation methods along with novel analysis methods. This talk will highlight what number and what kind of microarray experiments are needed to obtain useful and reliable information. The talk will also give suggestions how to choose analysis algorithms and software suits for proper microarray data analysis.



Date: 20 Feb 2004, Fri
Time: 4 pm
Venue: LT 20
Host: Dr Low Boon Chuan

All are welcome