

Functional Genomics in Reproductive Medicine ; X and Y chromosomes

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With the Human Genome Project complete, and microarray technology progressing rapidly, the study of whole genomes has become a reality. The emerging field of genomics is full of promise, has become a cornerstone of the study of human disease, and looks certain to make a major contribution to clinical practice in the future. There is an increasing number of genomic studies concerned with reproductive medicine. Numerous studies have documented the use of microarray analysis to identify patterns of global gene expression that distinguish normal development from that of the diseased state. In the present study, we aim to provide a basic gene expression profile of X and Y chromosome with infertile males. Here, we report an initial study of global gene screening by DNA chip analysis. We found that microarray analysis was suitable for high throughput analysis of Yq microdeletion and expression profiling of the genes on X and Y chromosomes in male infertility, which may be important in reproductive medicine.

