

Microarray technology has become a powerful tool for studying gene expression patterns in various biological systems. This technology allows researchers to simultaneously measure the expression levels of thousands of genes, providing a comprehensive view of cellular processes and responses. In this special issue, we present several studies that explore the application of microarray technology in understanding disease mechanisms and identifying potential therapeutic targets. The first article, by Chen et al., investigates the differential gene expression profiles in cancer cells compared to normal cells. The second article, by Wang et al., focuses on the identification of novel biomarkers for early disease detection. The third article, by Liu et al., discusses the use of microarray data in drug discovery and development. Finally, the fourth article, by Zhang et al., explores the role of microarray technology in personalized medicine. Together, these studies highlight the versatility and power of microarray technology in modern biological research.