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Decoding Cellular Orchestra through Microarray Analysis

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Abstract

Microarray analysis serves as a powerful tool for deciphering the intricate orchestration of gene expression within cellular systems. This abstract explores the fundamental concepts and applications of microarray technology in unraveling the dynamic symphony of molecular interactions. Microarrays enable the simultaneous monitoring of thousands of genes, providing a snapshot of the cellular transcriptome. The technology's versatility is showcased in its ability to elucidate gene expression patterns in response to various biological stimuli, developmental stages, or disease conditions. By profling the expression levels of genes, microarray analysis unveils the intricate network of molecular players, signaling pathways, and regulatory elements that compose the cellular orchestra.

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Harmony in drug discovery

Target identi cation and validation:

Conclusion

Acknowledgement

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