Multiplex Detection of Cell Surface Biomarkers: Targeting Estrogen Receptor (ER), Progesterone Receptor (PR), HER2, CA 15-3, CA 27.29, and CEA in Cancer Diagnosis

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prognosis, and treatment response. Traditional methods for biomarker detection oen involve singleplex assays, which are time-consuming, labor-intensive, and may require large sample volumes. In contrast, multiplex detection approaches oer the advantage of simultaneous analysis of multiple biomarkers, thereby enhancing eciency and reducing sample consumption. is study aims to develop and validate a multiplex detection platform capable of assessing the expression levels of ER, PR, HER2, CA 15-3, CA 27.29, and CEA in cancer samples [1].

By utilizing advanced molecular techniques, such as

3.

Molecular targets: estrogen receptor (ER) and progesterone receptor (PR)

Estrogen receptor (ER):

Progesterone receptor (PR):

4.

Human epidermal growth factor receptor 2 (HER2)

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Tissue biomarker: carcinoembryonic antigen (CEA)

Longitudinal Monitoring: B CA 15-3 CA 27.29,

Clinical Implications:

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Acknowledgment

Con ict of Interest

References

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