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Tissue Microarray has Revolutionized Pathological Researches by Chris Adam

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Tissue microarray (TMA) technology is a highly advanced research tool with a great output used to analyze tissues at a brisk pace by in-situ technologies. This approach can also be applied to other process to enhance their speed. The other such importance of this process is target confirmation of results from cDNA arrays, getting detailed information about tumors and tissues. It has already become hugely popular in providing the researches of the students of oncology and pathology with a powerful platform for proteomic research. Invented with the intention of using the Tissue microarray (TMA) technology in the verification of the cDNA results, they are widely used in recent times in researches related to medicines. In cancer research also, itâ€™s finding enough fame as itâ€™s necessary to find the each and every stage of the newly discovered genes.

The most of the tissue microarrayTissue microarray (TMA) is done with the tissues stored earlier in paraffin solution and treated with formalin. The slides are stained with hematoxylin-eosin solution to get the best results. The main goal behind the use of this technology is to be able to make the tissue available in an array. The method of selecting a tissue to be placed is done with inking the place and with a slide having scanning power. The depth and the width of the tissue should be measured beforehand as both are important to get the desired results.

The general approach with the paraffin-embedded and formalin-treated was far too time consuming and at the same time was highly expensive. There is a huge potential in the tissue microarrayTissue microarray (TMA) technology to confirm the proteomic or gene-related data within a quick time-span. The tissues collected from the patients suffering from rare diseases are used to treat such target diseases. This technology is also put into useused to test the pathological developments like the development of antibodies. The tissues stay in proper condition via this technology.

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