epredia

Enhancing precision
cancer diagnostics

One Week to One Day

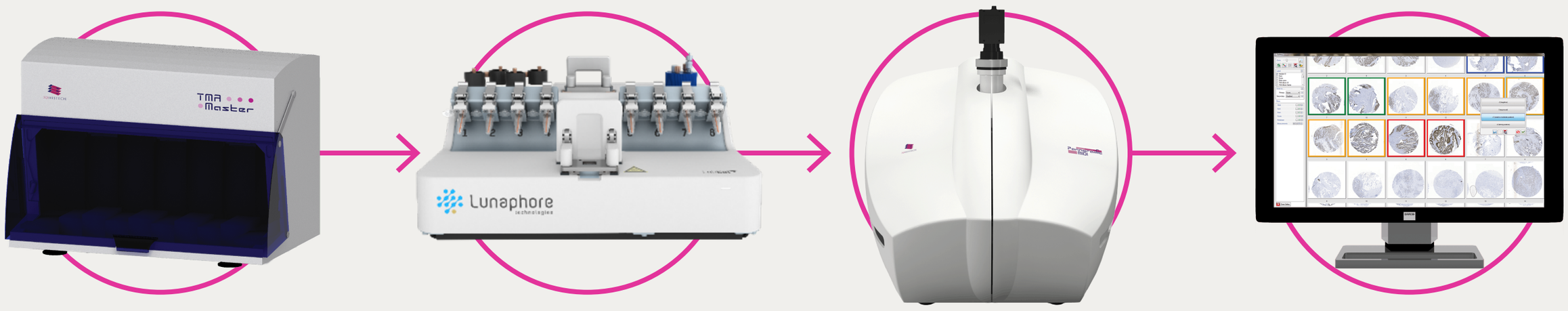
Take Control of Your Research by Automating Tissue Microarrays, Multiplexing, Whole Slide Scanning and AI Analysis for Enhanced Bioinformatics

3DHISTECH™ TMA Master II
Automated Tissue Microarrayer

LabSat® Research
Automated Staining Platform

3DHISTECH™ Pannoramic MIDI II
Whole-Slide Scanner

Aiforia™ Create
AI Image Analysis Software



Many of the most important processes for revealing and studying tissue biomarkers are currently conducted manually. This burdens the research workflow with a lack of control, poor reproducibility, and slow delivery of results.

In a recent internal study, Epredia compared the timing of several key processes for elucidating spatial and biomarker data from FFPE tonsil tissue: tissue microarraying (TMA), multiplex staining of the TMA slides, whole-slide scanning of the TMA slides, and cell quantification and analysis of each of the scanned TMA cores on the slide. Each process was completed using a suite of Epredia's powerful automated solutions, and the completion time was compared to the manual process often used by researchers for completing the same process.

The results show the ability for Epredia's suite of automated solutions to dramatically reduce the duration of each step needed to reveal and analyze key biomarker and tissue microenvironment data, and ultimately completing one week of manual work in just one day.

Discover more on this innovative new workflow and Epredia's solutions at our website:

www.epredia.com/spatialbiology

Process	Manual	Automated
Tissue Microarray 100 tissue sample cores (FFPE tonsil blocks)	1 hour, 30 minutes[1]	10 minutes
6-Plex Multiplex Immunofluorescent Staining of TMA Slide (Opal® 7-color IHC Kit)	4 days[2]	4 hours, 37 minutes
Whole-Slide Digital Immunofluorescent Scan of Stained TMA Slide	No manual process	1 hour, 7 minutes
Cell Quantification and Analysis of All 100 Scanned TMA Cores	16 hours, 40 minutes[3]	10 minutes
Total Duration	**6.5 Days**	**6.5 Hours**

Citations

1. "Simple method for constructing and repairing tissue microarrays using simple equipment", Journal of International Medical Research 49(3) 1–9.

2. Manual staining times computed by Epredia based on manufacturer recommended incubation times for selected antibodies and Opal™ 7-Color IHC Manual Kit manufacturer-provided protocols.

3. Time estimate provided by Aiforia. Individual lab times may vary.

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