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PerkinElmer has announced the launch of its Mantra Quantitative Pathology Workstation with inform Image Analysis Software for cancer immunology and immunotherapy research.

It enables researchers to investigate the spatial relationships among multiple types of immune cells simultaneously within and around solid tumors.

It is an easy-to-use, compact, quantitative pathology imaging solution for quantifying biomarkers and protein expression in situ. It enables the development of multiplexed immune cell and protein expression profiling assays for cellular phenotyping in the tumor and tumor microenvironment of standard formalin-fixed, paraffin-embedded (FFPE) tissue sections.

The Mantra workstation was developed for use with the company's comprehensive cancer immunology research workflow solution. It readily integrates with its Opal multiplexed immunohistochemistry reagents and inForm software's new quantitative per-cell analysis for phenotyping immune cells in situ. The system is designed to augment how a pathologist works at the microscope so that users can quickly and easily navigate slides at different magnifications. They can also acquire images with minimal microscope manipulation to visualize the distributions of multiple immune cell phenotypes simultaneously.

"Cancer immunology research provides hope for better outcomes, especially as new drug candidates make their way through the development process. PerkinElmer is transforming how researchers can see the distributions of immune cells in the

tumors they are treating, which can have a significant impact on their understanding of the immune system's role in cancer," said Mr Brian Kim, president, Life Sciences and Technology, PerkinElmer.