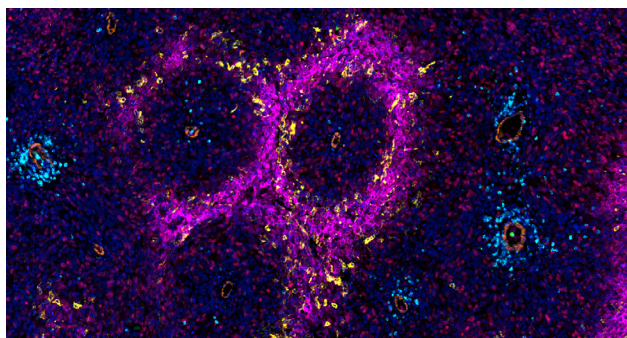


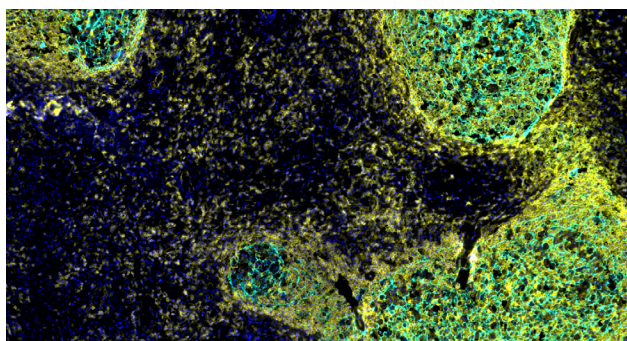
ONCORE Pro X Provides Both Efficiency and Scalability for Complex Multiplex Immunofluorescence Staining

“Fully automated and flexible multiplex staining platform that delivers high-quality, reproducible data for high throughput translational spatial biology and immune profiling research”

“The ability to tweak and fully customize protocols and reagents makes it particularly great for our complex assays and research applications”



Human Melanoma from Liver. Orange = CD31, Yellow = CAIX, Magenta = GLUT1, Aqua = CD3, Blue = DAPI



Human Lymph Node from Melanoma Patient showing B cell follicle/lymphoid aggregates. Yellow = CXCR5, Blue = DAPI, Aqua = CD21

At the Melanoma Institute Australia (MIA) researchers rely on high-quality, reproducible staining results to support key studies that drive global advances in melanoma research and patient treatment.

The Challenge

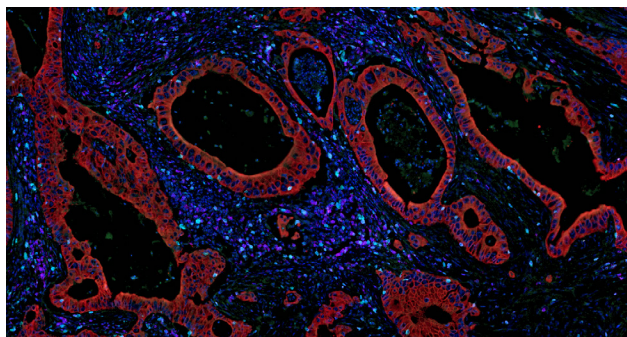
Prior to installation, the Institute experienced inconsistent staining between runs, as well as limited throughput using their previous semi-automated workflows. The sequential protocols were time consuming and required manual intervention, limiting scalability for the laboratory, and minimizing output.

The Solution

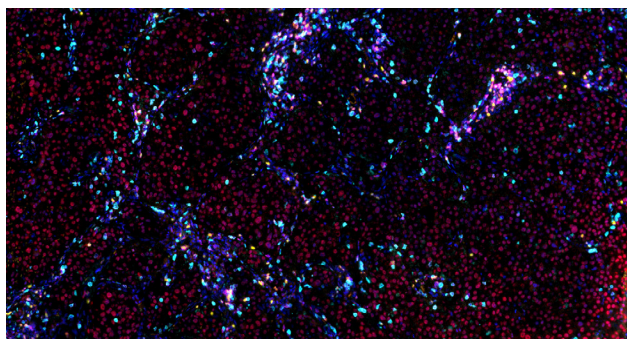
The flexibility and full automation of the ONCORE Pro X enabled, for the first time, consistent staining results for complex custom protocols, including Akoya 7-plex OPAL immune panels on whole slide sections.

The Results

The ONCORE Pro X delivers high-quality, reproducible results and significant productivity gains. Compared to the previous IHC platform, where a single panel required 3-4 days, the ONCORE Pro X enables completion overnight. Fully automated protocols ensure consistent and reproducible results across users and improved tissue integrity.



Human Pancreatic Cancer. Red = PanCK, Magenta = CD3, Blue = DAPI, Aqua = CD103



Human Melanoma Tissue. Red = SOX10, Blue = DAPI, Yellow = FXP3, Aqua = CD103, Magenta = CD3

“Installation and setup were seamless and well-coordinated.”

“The ONCORE Pro X is ideally suited to translational research laboratories performing high throughput multiplex immunofluorescence or spatial profiling for whole-slide sections for biomarker discovery.”

Consistent High-Quality Results

Dr Jordan Conway, Post-doctoral Researcher commented “The ONCORE Pro X is a flexible automated multiplex staining platform that works well for high throughput translational research. It provides reproducible, high-quality data while significantly reducing hands-on time for staff.

The instrument performed reliably across multiple projects and sample types, ranging from large tissue sections to smaller samples. The staining quality is consistently high, with strong reproducibility across runs and experiments.

The ONCORE Pro X is now embedded within our NeoPlatform translational research program, supporting spatial and immune profiling of tumor samples from clinical trial patients. It has enabled generations of high-quality data that we can now include in multi-omics datasets. To date we have stained 1000 slides, mainly Akoya 7-plex OPAL immune panels on whole slide sections for spatial profiling of tumor and immune cell populations in melanoma patient samples.

Implementation of the ONCORE Pro X has significantly improved work efficiency, consistency, and scalability. Automation has reduced variability providing consistent staining across large sample cohorts. Turnaround times have greatly improved with a full set of samples completed overnight.

Scan here to learn more about ONCORE Pro X



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