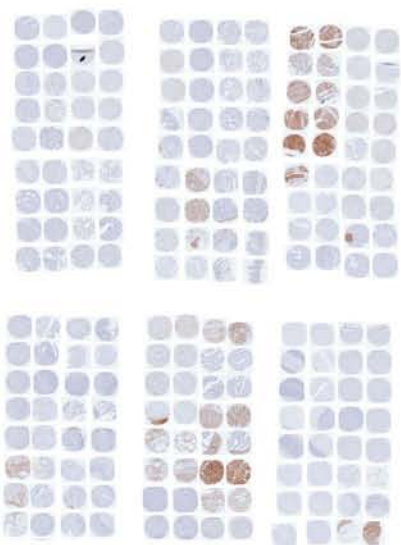## Tissue Micro Array Analysis

Ariol®

Automated scanning and quantification of nuclear, cytoplasmic, and membrane IHC stained tissue cores on TMA slides for the study of cellular protein expression

Powerful TMA Analysis

Ariol introduces brand new tools to efficiently scan and analyze TMA tissue cores and is the best way to bring automation, accuracy, and objectivity to TMA slide scoring:

- Quickly find tissue cores for analysis with an automated and accurate core mapping feature

- Rapidly scan TMA slides at 20x

- Separate staining discretely between nuclear, cytoplasmic, and membrane areas

- Quantify staining with high-resolution numerical data or use traditional 0, 1+, 2+, 3+ scoring

- Gate out non-specific background staining with user controllable thresholds

- Gate out cells of non-interest by using controllable shape classifiers

- In addition to all IHC scripts, apply DNA Ploidy, Microvessel Detection, and Cellular Rare Event Detection analysis scripts to tissue cores

Tissue Micro Array Analysis

Example Workflow

🕐 System retrieves case information via barcode, loads slide onto stage, pre-scans at 1.25x to locate TMA cores and applies an auto-core mapping function to overlay a selection area on top of each TMA core

👤 User makes spot adjustments to the automatically generated core map if needed

🕐 System auto-scans cores at 5x 10x or 20x and performs requested analysis

👤 User reviews the data

🕐 System generates report

🕐 Time saving steps when system runs unattended 👤 User interactive steps

ariol®

Automation for **quick** scanning, **accurate** and **consistent** scoring
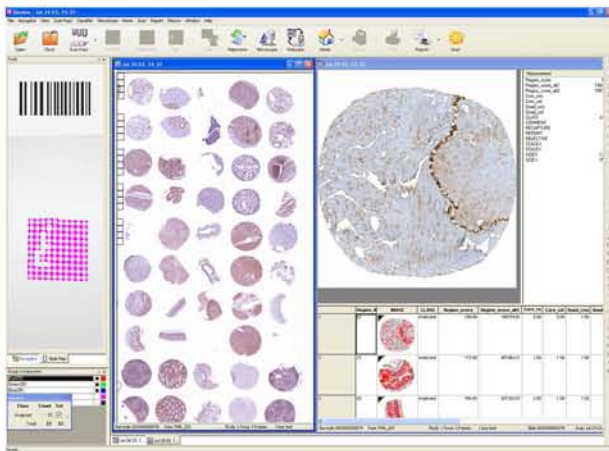
Review high power scans of the cores from the image gallery. Relevant measurements and views for each assay are shown in the grid.
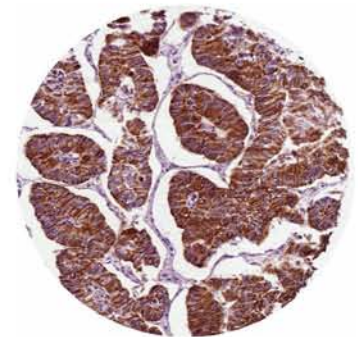
Positively stained core from a subject with colon cancer
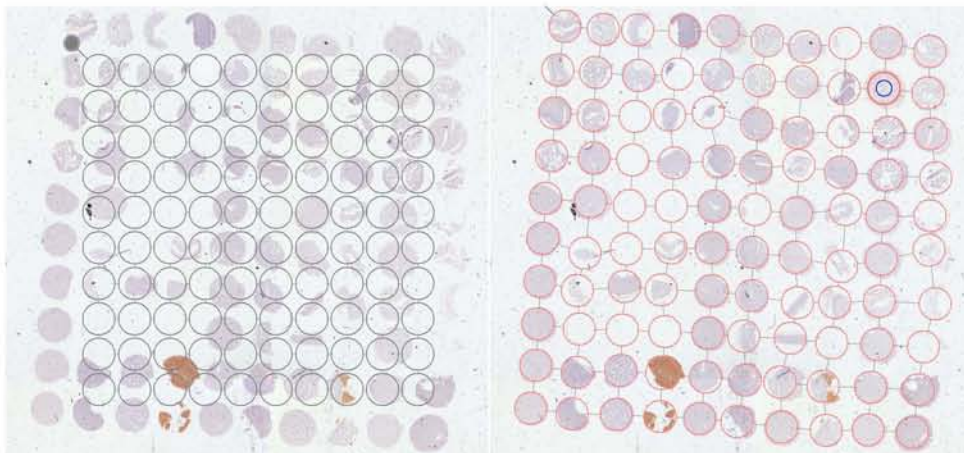
The auto core-mapping function automatically locates and centers the selection area over the cores for high power scanning.

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