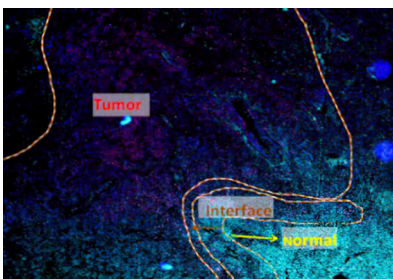




Quantitative imaging solutions and automated analysis of single cells and tissues.

Interesting topics featured in the new InfoLetter on Cancer research



Checkpoint Molecules Predict Response to Immunotherapy in Cancer

Heij et al. investigated the expression of checkpoint molecules in the tumor microenvironment of intrahepatic cholangiocarcinoma. They found that co-expression patterns of checkpoint molecules such as PD-L1 and TIGIT correlate with metastases and poor prognosis. TissueFAXS and StrataQuest were used to image the mIF-stained samples and assess protein expression.

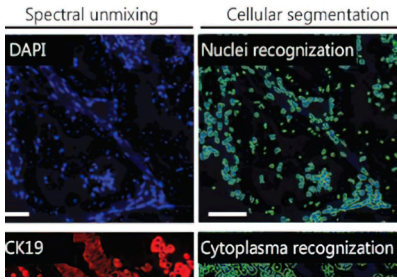
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InCoB 2023 Bioinformatics Conference: Registration Open

The 22nd InCoB conference, organized by Prof. Jyotsna Batra (Queensland University of Technology, Australia), TissueGnostics REDI research fellow, is taking place in Brisbane, Australia in November 2023. The conference is focused on translational bioinformatics topics, transforming life. Registration for the event is now open.

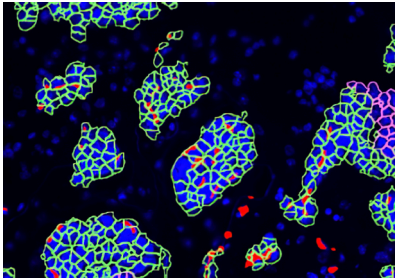
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AI-Assisted Analysis of 'Anti-/Pro-Tumor' Profiles for Pancreatic Adenocarcinoma

To predict survival of patients with pancreatic adenocarcinoma, Zhou et al. performed an AI-assisted comprehensive analysis of CD8+ T cells, cancer stem cells (CSCs), and tumor budding (TB). They used StrataQuest image analysis software to automatically detect and quantify tumor-infiltrating CD8+ T cells, CD133+ CSCs, and CK19+ TB.

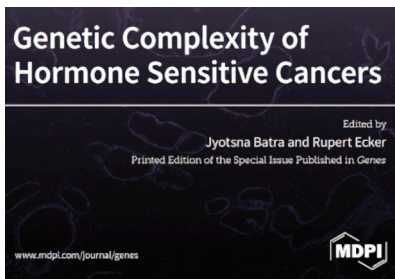
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Case Study: Evaluating the Distance of Tumor Cells from Blood Vessels

The tumor vasculature is essential for keeping the tumor alive and facilitating its often-extensive growth. Here, the IF Tumor Foci Angio App was used to (i) assess the number of tumor and non-tumor nuclei, (ii) the number of blood vessels, and (iii) to evaluate the distance of tumor cells from blood vessels within the tumorous areas.

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Book: Genetic Complexity of Hormone Sensitive Cancers

Dr. Rupert Ecker, CEO of TissueGnostics, and Prof. Jyotsna Batra (QUT) and colleagues participated in publishing a special issue "Genetic Complexity of Hormone Sensitive Cancers" in MDPI Genes. The book covers various details of methods in digital histopathology and illustrates novel findings in genetic mechanisms in several types of cancer.

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TissueFAXs i PLUS

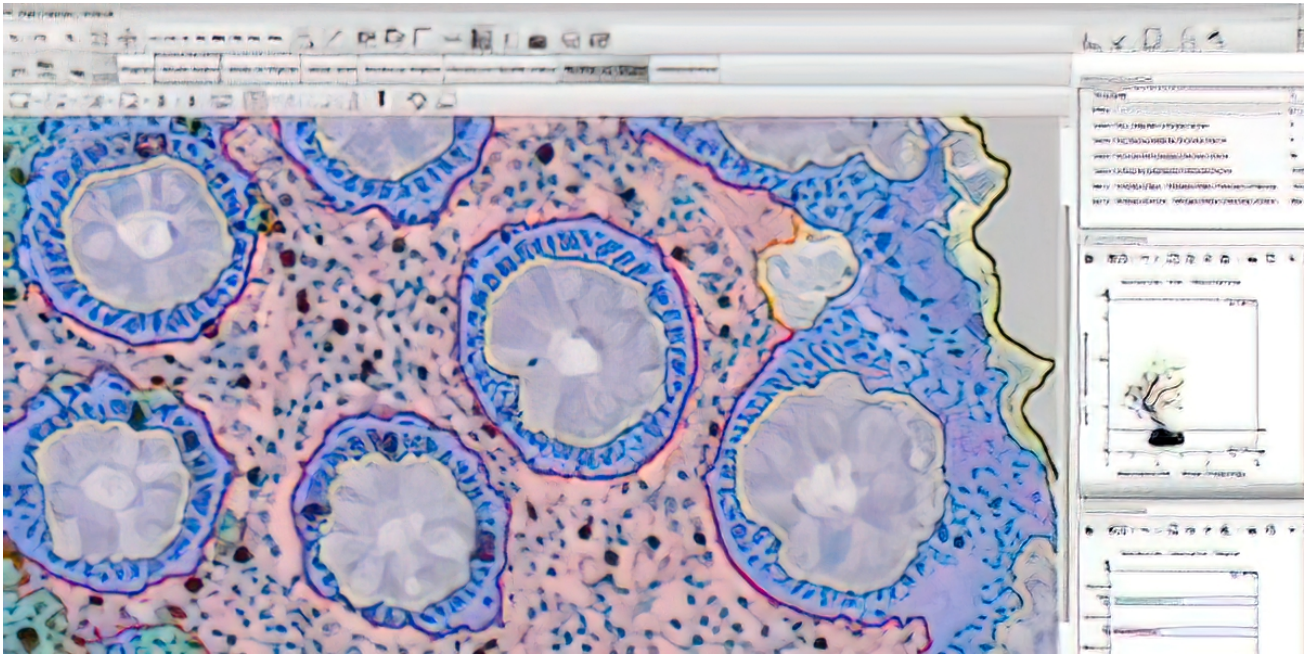


This system is ideal for automated slide scanning used in digital pathology. It consists of an inverted microscope with a slide scanner to capture high-quality images of slides. It has a motorised stage of precise sample positioning of the slides and software for image acquisition and analysis.

The scanner is equipped with bright-field and fluorescence imaging capabilities, enabling the visualization of various cellular and tissue structures.

This technology of digitised slides allows storage, sharing and analysis of pathology samples. This is particularly valuable in research laboratories, pharmaceutical companies and clinical settings where large volumes of slides need to be processed and analysed efficiently.

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