TissueVision, Inc

www.tissuevision.com

PRODUCT/SERVICE BACKGROUND INFORMATION

TissueVision Inc. (TVI) is a multi–disciplinary life sciences company offering 3D tissue imaging and analysis solutions for the research market. Our powerful Serial Two-Photon Plus (STP²) platform features stunning high-resolution multispectral datasets and analysis pipelines that create reliable 3D tissue models. The indexed histological sections produced during the STP² process can be further investigated with secondary analyses that run the gamut from standard histological stains to advanced spatial genomics. The final result is rich, multiplexed pre-clinical and clinical 3D spatial biology models that deliver actionable and quantitative results.

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

TVI is the sole provider of subcellular resolution 3D spatial biology models. Our ability to combine label-free imaging of collagen and lipids using second and third harmonic imaging with fluorescent imaging results in detailed analytical output tailored to the research question at hand. The STP² collagen and elastin analysis pipelines quantify signal density, colocalization, fiber alignment and bundle density for a variety of dermatology applications such as aging, scarring, ablation, and epidermal and subcutaneous drug administration.

HOW WILL THIS NEW PRODUCT/SERVICE IMPACT THE INDUSTRY (BENEFITS)?

The STP² platform bridges the long existing translational gap between low-resolution *in vivo* imaging (typically 3D) and high-resolution *ex vivo* imaging (typically 2D). The resulting high-resolution *ex vivo* 3D models can be viewed seamlessly with a cloud-based portal, allowing users to easily screen and annotate terabytes of data. The integration of Bruker Daltonics' mass spectrometry systems and AmberGen's MALDI HiPLEX-IHC pipeline provides a true understanding of the 3D spatial biology when coupled with the STP² technology.