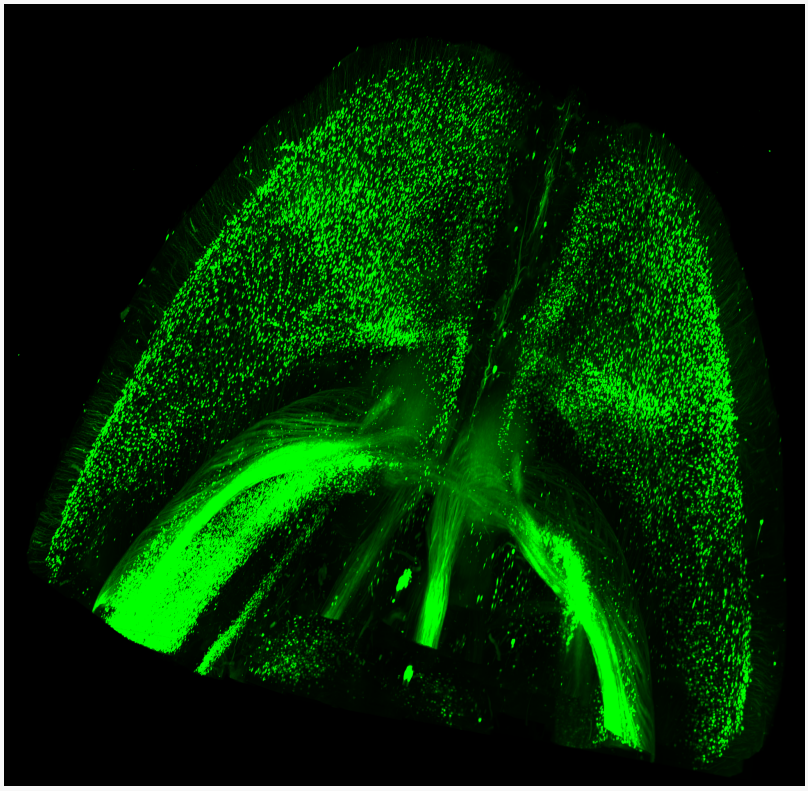
3i and DRVISION partner to offer best in class imaging systems for life sciences

DENVER, COLORADO, USA, December 9, 2018 /EINPresswire.com/ -- 3i (Intelligent Imaging Innovations), a leading provider of advanced multimodal microscopy systems to researchers around the world, announced today a strategic partnership with DRVISION Technologies to deliver Artificial Intelligence (AI) enabled software for high-performance visualization, exploration and analysis of microscopy images of virtually any size. The partnership enables 3i to market and sell Aivia while DRVISION will further expand its support for SLD (SlideBook) files to ensure ultimate performance for users of 3i systems.With innovative solutions that combine DRVISION's large data handling capabilities and 3i's high-performance instruments, the partnership offers researchers in fields such as Neuroscience, Cell Biology, Immunology, and Developmental Biology a powerful combined solution to accelerate research, to reduce the time to results, and to fully leverage the power of the latest technologies in light sheet microscopy, cloud computing and AI.



Aivia volume rendering of mouse brain cleared with PEGASOS and imaged by 3i Cleared Tiling LightSheet. Specimen courtesy of Dr. Zhao, Texas A&M

In recent years, dramatic advances in illumination, light detectors and sample preparation have enabled researchers to image very large samples at unprecedented spatial and/or temporal resolution leading to the routine generation of multi-terabyte data sets. 3i's range of innovative microscopes provide researchers nearly infinite options for living cell, live cell, intravital and fixed cleared tissue imaging. DRVISION's software, Aivia, uniquely supports the visualization, exploration and analysis of nearly unlimited image sizes (e.g. many hundreds of GBs per time point).

Most image visualization and analysis solutions in the market today suffer from bottlenecks related to the super-sized nature of present-day high-performance microscopy datasets. Aivia's innovative multi-resolution and multi-block volume rendering as well as multi-level of detail surface rendering overcomes this obstacle, allowing users to load and explore large microscopy data sets within seconds both on a computer screen and in virtual reality. Additionally, with the recent launch of Aivia Cloud users can easily train and apply deep learning models using cloud computing. This can be used to improve image quality, predict the localization of organelles of

interest and/or perform automated object segmentation. Moreover, Aivia offers a wide range of automated 3D cellular detection, tracking and analysis tools as well as a complete portfolio of manual and computer aided 2D and 3D annotation tools.

Aivia has been created by a multidisciplinary team of biomedical scientists, microscopists, software and algorithm engineers specifically for researchers active in the Neuroscience, Cell Biology, Immunology, and Developmental Biology fields. Combined with 3i microscopes, including the Lattice LightSheet, Cleared Tiling LightSheet and Marianas LightSheet, these ground-breaking solutions are enabling new levels of productivity in microscopy workflows.

Events
Learn more about the combined 3i/DRVISION solution by visiting their respective booths at this upcoming event:

American Society for Cell Biology – European Molecular Biology Organization (ASCB - EMBO) 2018
Booth 616 (3i)
Booth 823 (DRVISION)
San Diego, CA, USA
December 9-12, 2018

Supporting Resources
More on 3i Microscopes,
https://www.intelligent-imaging.com

More on DRVISION and Aivia,
Homepage - https://www.drvtechnologies.com/aivia
Youtube - https://bit.ly/2KXMOsD

About DRVISION
DRVISION works with scientists and engineers at the technological frontier, and pioneers image based decision technologies that propel major breakthroughs in the life science, electronics and materials industries. DRVISION is a technological innovator with 50 issued US patents, and commercial interests in X-ray inspection, survey, search / alignment, video inspection and life sciences. DRVISION makes and markets Aivia microscopy image analysis software. Aivia development is partially funded by the National Institutes of Health (NIH) under multiple Small Business Innovative Research (SBIR) programs worth over $10M. For more information, visit www.drvtechnologies.com.

About 3i
3i designs and manufactures technologies for living cell, live cell, and intravital fluorescence microscopy including superresolution, computer-generated holography, spinning disk confocal, multi-photon and lightsheet. SlideBook software manages everything from instrument control to image capture, processing and data analysis. 3i was established in 1995 by a group of scientists whose wide range of research activities includes cell biology, immunology, neuroscience and computer science. Our collective aim is to provide advanced multi-dimensional microscopy platforms that are intuitive to use, modular in design, and meet the evolving needs of investigators in the biological research community. For more information, go to www.intelligent-imaging.com or call +1 (303)-607-9429.

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