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Ultra-Rapid Whole Slide Imaging and Large-Scale Scientific Image Management Integrated for First Time

DMetrix and BioImagene Partner to Create a Complete Pathology Research Solution.

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From: DMetrix, Inc., Michael R. Descour, (520) 722 9510

[DMetrix](#), Inc., the only provider of ultra-rapid array-microscope whole glass slide digital imaging systems, announced today that it has teamed with BioImagene, the leading provider of image management and image-analysis platforms, to integrate DMetrix's DX-40 scanner with BioImagene's Scientific Image Management System (SIMS™). DMetrix and BioImagene designed the first implementation of this complete solution in cooperation with IBM, for the Arizona Cancer Center (the "Arizona System").

The DMetrix/BioImagene Arizona System is designed to accommodate up to 33 terabytes of image data and manage more than 100,000 high-resolution images. Images are produced at high throughput and at high resolution with DMetrix's DX-40 automated slide scanner. Users can access image data and metadata through a secure website. The Arizona System is flexible and supports multiple use cases, e.g., remote consultations for projects focused on cancer prevention or sophisticated 3-D image analyses.

IBM worked closely with DMetrix and BioImagene to develop the underlying hardware infrastructure to optimize performance, scalability, and cost. The Arizona System includes IBM's eServer® xSeries® systems, IntelliStation Z Pro viewing workstations, the TotalStorage DS4000 disk system and the modular LTO tape library. IBM Tivoli® Storage Manager is included to automate data backup and archiving and to protect images and other data from hardware failures and other errors.

Robert Gillies, PhD, Professor of biochemistry, physiology, and radiology at the University of Arizona, who helped to design the Arizona system, said, “We are excited about the potential for this enabling technology. Data management is always a challenge when generating large amounts of large data sets, and the system we have designed with DMetrix, BioImagene, and IBM is unprecedented in scope and integration. We expect that this system will enable cancer specimens to be evaluated at multiple sites across the country and this will go a long way towards making these data available to a wider audience. It will also allow us to observe and analyze tissues in their full 3-dimensional representations, which we expect will enable us to investigate spatially-specific gene expression patterns. We anticipate that will provide us with more profound insights into the mechanisms of normal tissue function and their pathologies.”

Dr. David Alberts, Regents' Professor of medicine, pharmacology, nutritional science, and public health at the University of Arizona College of Medicine and Director of the Arizona Cancer Center, stated, “The DMetrix Arizona system is critically important to both of our skin and colon cancer prevention program project grants from the National Cancer Institute. We now will be able to use this remarkable technology to digitize and rapidly send our biopsy slide images across country to GI and dermatopathologists for histopathologic analyses of important biomarkers of both risk and chemopreventive agent response.”

Michael R. Descour, PhD, President of DMetrix stated, “The configuration designed with and for the Arizona Cancer Center serves as an outstanding template for any research environment that relies extensively on digital imagery. This Arizona system covers state-of-the-art image acquisition, image management, and data storage and archiving. The configuration developed jointly with Arizona Cancer Center scientists is prepared to accommodate the inevitably large collection of images that productive research programs generate. We are excited to work with BioImagene’s SIMS™ product, to bring DMetrix’s own revolutionary technology to a proven scientific imaging environment.”

“We are very enthusiastic about teaming with DMetrix because it allows us to bring a total solution to the customer who is looking to embark on digital pathology. By combining the best of image informatics from BioImagene with DMetrix’s highly innovative, ultra-rapid image capture along with IBM’s excellence in computing power, storage, middleware, display

technologies, and services, we are able to provide scientists at the Arizona Cancer Center and their collaborators with a state-of-the-art multi-functional system that meets their current and predicted needs,” said **Mohan Uttarwar**, President and CEO of BioImagene.

About DMetrix

DMetrix is a privately held company headquartered in Tucson, AZ, and the exclusive developer of array-microscope technology. At five to 60 times faster than any other system, the DMetrix DX-40 slide scanning system delivers ultra-rapid slide throughput, simple oneclick scanning® operation, and sophisticated walk-away slipstream® automation. DMetrix’s technology has been recognized as a breakthrough innovation by *The Wall Street Journal*. DMetrix’s first product, the DX-40 array-microscope system, received *R&D Magazine*’s 2005 R&D100 Award given to the 100 technologically most significant innovations of the past year.

www.dmetrix.com.

About BioImagene

BioImagene, Inc., based in San Mateo, California, is a leading provider of image informatics solutions for life sciences research, pharmaceutical development, and clinical pathology. BioImagene has developed a line of products derived from the flagship management platform SIMS™ (Scientific Image Management System). Built on a Web-enabled platform, BioImagene’s products deliver a comprehensive and searchable image database while maintaining powerful analysis algorithms. Image informatics technology integrates valuable image and non-image data into SIMS™, allowing scientists to search, mine, share, and analyze data. BioImagene now serves most of the top 15 global pharmaceutical companies and many academic institutions around the country. www.bioimagene.com