

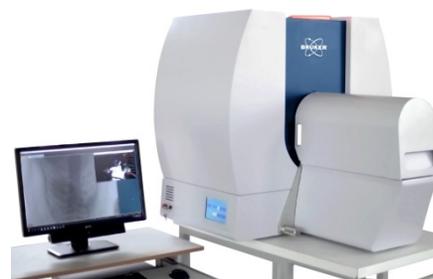


## **Bruker Unveils Next-Generation Preclinical Imaging Systems for Advanced Translational Research at World Molecular Imaging Congress**

*New, highest-performance microCT system and novel SiPM PET insert for simultaneous PET/MRI introduced*

NEW YORK, New York – September 7, 2016 – Bruker today unveils two new preclinical imaging systems at the World Molecular Imaging Congress 2016 (WMIC: <http://www.wmis.org>) in New York. The new systems are designed to deliver highest performance and improved convenience for routine imaging, and enable novel translational research into the causes, progression, as well as potential diagnosis and treatment of disease.

Bruker's new *SkyScan™ 1276* microCT (X-ray micro-Computed Tomography) combines highest resolution, speed, accessibility and other innovations to advance improved *in vivo* scanning of small laboratory animals and of *in vitro* biological samples in preclinical studies. With continuously variable magnification, including a smallest pixel size of 2.8µm, and a shortest scanning cycle of 3.9 seconds, the *SkyScan 1276* gives researchers access to highest-quality images at higher throughput. The *SkyScan 1276* also is the world's first *in vivo* microCT system with rapid helical scanning, and with unique *InstaRecon®* technology to reconstruct images up to 8000x8000 pixels per slice, faster than any other conventional algorithm. Researchers will also benefit from easy system control by a user-friendly touchscreen and the ability to view and share images on any iOS or android mobile device.



At WMIC 2016, Bruker is also showing its performance-leading Silicon photomultiplier (SiPM) PET insert for **simultaneous PET/MRI** (Positron Emission Tomography / Magnetic Resonance Imaging) investigations in mice and rats. This novel PET insert is compatible with MRI systems up to 15.2 Tesla and allows simultaneous measurements for the perfect correlation of PET and MRI data in space and time, in order to examine tracer kinetics, therapeutic agent distribution and animal physiology.



The new, work-in-progress PET insert has been successfully installed in a 7 Tesla 30 cm magnet in a Bruker preclinical MRI system at the University of Leuven, Belgium under the guidance of Dr. Christophe Deroose, Professor of Nuclear Medicine.

Dr. Uwe Himmelreich, Professor at the Faculty of Medicine, Department of Imaging and Pathology at the University of Leuven, commented: "The new Bruker SiPM PET insert enables us to produce improved PET resolution through MRI-based motion correction, and to guide external interventions in real time. The simultaneous measurements



offered us high research throughput, and its unique Full Field Accuracy (FFA) facilitates consistent quantification across the entire field-of-view. With 0.7mm resolution and 12% sensitivity, this high-performance PET insert provides us with a complete solution that seamlessly integrates into the workflows and software of our existing Bruker MRI system.”

“We are delighted to showcase our latest innovations here at the World Molecular Imaging Congress 2016,” said Dr. Wulf I. Jung, President of Bruker’s Preclinical Imaging Division. “With the introduction of the performance-leading *SkyScan 1276* microCT system, and the successful customer trial of the novel simultaneous SiPM PET insert at the University of Leuven, Bruker continues to drive innovation in preclinical imaging that enables our customers to advance their translational research.”

For more information about Bruker at WMIC 2016, visit <https://www.bruker.com/wmic>.

Please register [here](#) for our industry workshop on Thursday, September 8, 2016 at 6 pm in order to learn more about Bruker’s vision for the future of preclinical imaging.

#### **About Bruker Corporation (NASDAQ: BRKR)**

For more than 50 years, Bruker has enabled scientists to make breakthrough discoveries and develop new applications that improve the quality of human life. Bruker’s high-performance scientific research instruments and high-value analytical solutions enable scientists to explore life and materials at molecular, cellular and microscopic levels. In close cooperation with our customers, Bruker is enabling innovation, productivity and customer success in life science molecular research, in applied and pharma applications, in microscopy, nano-analysis and industrial applications, as well as in cell biology, preclinical imaging, clinical research, microbiology and molecular diagnostics.

For more information, please visit: [www.bruker.com/preclinicalimaging](http://www.bruker.com/preclinicalimaging)

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