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MR Solutions overwhelmed by interest in their cryogen free, 7.0T preclinical MRI system

Delegates from academia and industry flocked to see the world's first commercial, cryogen free, 7.0T, preclinical MRI imaging system, which went on display for the first time at the recent joint ISMRM/ESMRMB meeting in Milan, Italy and the SNMMI meeting in St Louis, United States.

The meetings were a huge success for MR SOLUTIONS, who showcased the brand new 7.0T scanner to hundreds of visitors from across the world. Visitors to the shows were also pleased to learn that soon one machine could undertake a variety of imaging techniques, including MRI, SPECT and PET, as MR Solutions is accessorizing its imaging systems with in-line or in-the-bore modalities.

The cryogen free technology provides a number of advantages. Firstly and most importantly the MRS MRI systems offer superior soft tissue contrast and molecular imaging capabilities. Secondly, the MRS MRI system's installation is easy and the operational costs are very low, as there is no need for cryogen cooling equipment and no need for expensive building construction. Thirdly, because the MRS MRI systems have a very small stray magnetic field, it can be placed close to other imaging systems for much more efficient operation and multi-modality use.

MR SOLUTIONS has been able to dispense with the usual liquid helium cooling system by using a revolutionary magnet design. This enables the use of a standard low temperature fridge to cool the magnet to the required 4 degrees Kelvin (minus 269 degrees C).

The magnet in the new 7.0T MRI system has an elliptical field of view, which makes it even more suitable for research purposes. The 7.0T preclinical MRI system has a bore diameter of 17cm. A range of larger 7.0T bore size systems will be announced later in the year.

In the last few years, MR Solutions has led the field in technology for the preclinical imaging market, with a range of ground-breaking innovations. At the last ISMRM meeting held in 2013, they showcased the first commercial cryogen free 3.0T MRI range.

Physicist and CEO of MR Solutions Dr. David Taylor said: "We are very excited by the overwhelming interest which has been shown in our latest scanning technology. As we have been at the forefront of the industry for over 30 years, with over a thousand sales across the world – MRI systems and spectrometers - this is a fantastic achievement for us and a revolutionary step forward for preclinical researchers"

MR Solutions has offices in the UK, North America and Asia, as well as a network of agencies across the world.

*ISMRM is the International Society for Magnetic Resonance; ESMRMB is the European Society for Magnetic Resonance in Medicine and Biology; SNMMI is the Society of Nuclear Medicine and Molecular Imaging.

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