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MR Solutions announces the first installations of its second-generation cryogen free magnet technology for increased scientific capabilities in preclinical MRI

MR Solutions has introduced its second generation MRI magnet technology to its range of ground breaking 3T and 7T, cryogen free, preclinical scanners. Features of this new technology include variable field operation, higher intrinsic magnetic field homogeneity, larger fields of view (FOV) elliptical in shape to better fit the subject and automatic field ramping. This jump in technology has been made possible by MR Solutions' proprietary technology for optimisation of magnet performance. Installations of the second-generation technology include the National Institute for Health, Bethesda, Washington DC, the University of Manchester, UK, Korea Advanced Institute of Science and Technology, and the International Iberian Nanotechnology Laboratory, Portugal.

One of our recent customers said: "We are very pleased with this new, 3T benchtop system (MRS 3017) from MR Solutions. The variable field capability allows us to carry out hyperpolarized ¹³C MRI research at fields, which are optimal for individual tracers. This was the choice for us."

David Taylor, the CEO of MR Solutions, commented: "Following the success of our first generation cryogen free MRI scanners for preclinical imaging, we have moved to strengthen our magnet manufacturing, both in terms of capacity and performance, through exclusive partnerships with two long established companies experienced in the field. In addition we have taken the opportunity to incorporate enhanced magnet technology for superior flexibility and utility for the researcher."

MR Solutions has also launched its new PreClinical Scan™ software for simplicity of use, smoothness of workflow and seamless integration of MR Solutions' PET and SPECT technology.

The company provides PET-MRI or SPECT-MRI imaging either for independent acquisition, sequential acquisition, or simultaneous acquisition. Optical and CT imaging capabilities are also possible. Multi-modality imaging will become the norm for the study of anatomy, bio-distribution, efficacy, safety and kinetics within the same anatomical context.

MR Solutions is the world's largest independent developer and manufacturer of preclinical MRI technology and developed the world's first commercial, cryogen free 3T range of benchtop MRI scanners in 2012, followed by the more powerful 7T range in 2014.

MR Solutions has over 30 years' experience in this field and in excess of 1000 installations of MRI technology across the world. Its scanners are renowned for their excellence in terms of superior soft tissue contrast and molecular imaging ability.

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