



Bruker BioSpin Corp.

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FOR IMMEDIATE RELEASE

Bruker BioSpin Launches Two New Versatile NMR Probes for Enhanced Flexibility and Sensitivity: QCI CryoProbe™ and BBFO^{plus} SmartProbe™

CHICAGO, Illinois -- March 9, 2009 – At Pittcon 2009, Bruker BioSpin introduces two new NMR probes that enhance the range of applications and the sensitivity of its NMR product line. The *QCI CryoProbe™* delivers highest sensitivity and versatility for structural biology applications on proteins, RNA and DNA. The *BBFO^{plus} SmartProbe™* delivers the highest sensitivity and flexibility for routine small-molecule NMR.

The new *QCI CryoProbe*, a proton-optimized quadruple resonance NMR ‘inverse’ probe, increases sensitivity by about 300% on ^1H and ^{13}C compared to a room temperature probe. This new, versatile probe features four fully independent channels that enable simultaneous decoupling on multiple nuclei such as ^{13}C , ^{31}P and ^{15}N . This cost-efficient adaptability eliminates the need to change probes and makes this probe ideally suited for the study of RNA or DNA, and also allows all research on proteins, small molecules and metabolomics samples. Several recent discoveries in RNA research make this probe a very timely introduction for cutting-edge NMR research in RNA/DNA.

The new 500 MHz *BBFO^{plus} SmartProbe™* delivers a 150% increase in proton sensitivity together with a high sensitivity on a wide range of NMR nuclei. The *BBFO^{plus} SmartProbe*’s unique design significantly increases the number of accessible NMR nuclei on its broadband channel, hence enabling routine NMR applications on the majority of nuclei with the notable addition of ^{19}F . The *SmartProbe* technology enables fluorine observe with proton decoupling, or vice versa, which is ideal for small molecule pharmaceutical research. Together with Bruker’s ATM (automatic tune & match) rf technology, the *BBFO^{plus} SmartProbe* allows for fully automatic nucleus switching, thereby increasing throughput and delivering optimum performance from sample to sample. The *BBFO^{plus} SmartProbe* has evolved



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from the well-proven BBFO product line introduced by Bruker in 2007, which successfully combined the individual benefits of the highly successful broadband inverse and broadband observe NMR probe ranges, and yields the optimum high performance NMR probe solution with maximum flexibility and throughput.

For Further Information:

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