

Varian, Inc. Debuts Bio-Static NMR Probe for Protein Applications

More work for the Nuclear Magnetic Resonance probe

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Varian, Inc. has extended its offerings for bio-solids applications research by introducing the BioStatic(TM) **nuclear magnetic resonance (NMR) probe** designed to determine the molecular structures of proteins and other biomolecules in a solid state.

Bio-solids NMR experiments allow access to 70% of all cellular proteins, such as membrane proteins, that are considered solids because they are not free floating in intracellular fluid. These analyses can provide researchers with unparalleled insight into proteins and biomarker molecules associated with a wide variety of diseases.

Varian's BioStatic probe incorporates patent pending ultra-low E-field coil technology to reduce unwanted heating by up to 94% compared to a standard solenoid coil design probe, and enables experiments to be run up to 5x faster than competitive offerings. Low transfer of heat to the sample is important to researchers because heating can alter or destroy valuable biological solids samples.

"Membrane proteins are of considerable interest to our customers because they represent approximately 65 percent of current drug targets," said Martin O'Donoghue, senior vice president of Scientific Instruments, Varian, Inc. "The BioStatic probe is another product in our information rich detection (IRD) portfolio that demonstrates the continuing innovation of our NMR research and development team."

Orders are being accepted now for the new BioStatic probe with delivery scheduled to begin later this calendar year.

Core to Varian, Inc.'s strategy is strengthening the company's IRD product portfolio, which provides users with multi-dimensional layers of knowledge critical to their ability to optimize analyses and processes. These products include nuclear magnetic resonance (NMR) and magnetic resonance (MR) imaging, mass spectrometry (MS) and Fourier Transform-infrared (FT-IR) systems.