

SMASH 2008 Recap: ***One-Minute NMR and Introducing Citation***

**By Dr. Dean Olson, Director of Customer Support, Protasis/MRM Corporation
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For researchers with individual precious samples, Protasis introduced the Citation Push-Button Sample Loader (PBSL) at the SMASH 2008 conference in Santa Fe, NM, September 7-10. In contrast to One-Minute NMR, our high-throughput automation system, this novel semi-automated approach allows convenient manual loading of samples using a 10- μ L syringe into a standard, chromatography-style loop injection valve. A push of the 'Inject' button initiates a completely automated sequence to load the high-sensitivity CapNMR flow cell and run multiple 1D- and 2D-NMR experiments to collect a complete archival suite of spectra (overnight if needed), recover the sample in a collection vial, then rinse and clean the probe for the next sample. Citation also includes fully automated power-up validation tests to ensure fluidic and NMR system integrity BEFORE you load your valuable sample.

Protasis also brought back its live demonstration of One-Minute NMR to the conference, complete with a working LEAP liquid handler robot. The LEAP autosampler mimics human syringe loading into a loop injector but with speed that can acquire up to five hundred 1D proton NMR spectra per day. This robot is the best choice for microvolume sample pick-up from sealed microplates or vials and supports a diverse set of sample preparation options. As it moves through its motions, it is also quite captivating to watch. See www.microNMR.com for a working view of the system.

Whether you choose semi-automated (Citation) or fully-automated (One-Minute NMR) operation, CapNMR gets you published faster with only a few micrograms of your small molecules.