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## New for JEOL NMR - for Polymers, Materials Science, and Biosolids

The 2mm Magic Angle Spinning (MAS) NMR Probe for Solids and Pre-Heat Auto-Sample Changer (ASC) expand JEOL's extensive offering of advanced NMR solutions for polymer research, materials science and biosolids. [Read More>](#)



The new 2mm Magic Angle Spinning (MAS) Probe is well suited for both materials and biosolids NMR.



The new Pre-Heat Auto-Sample Changer (ASC) builds on the company's proven room temperature (RT) and Pre-Cool ASC technology for polymer research, pre-heats 12 samples to up to 150°C, and supports 5mm and 10mm NMR tubes.



## New iPhone App - NMR Periodic Table

Always keep the periodic table with you! 2019 is the [International Year of the Periodic Table](#), and we've developed a new App, available through the App Store. A version for the Android is in the works! [More information>>>](#)



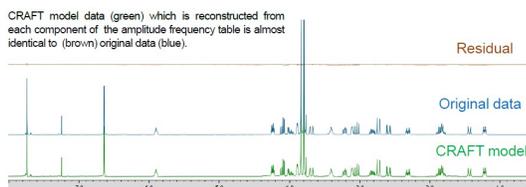
## Recently Published

**Solving Challenges of Automated 1D and 2D Quantitative Nuclear Magnetic Resonance (qNMR) Spectroscopy Using CRAFT**

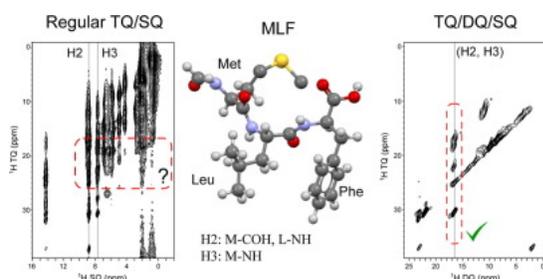
CRAFT analysis of <sup>1</sup>H-NMR for brucine

⋮ ⋮

The introduction of "two-dimensional" (2D) nuclear magnetic resonance (NMR) spectroscopy in the mid-1970s is generally accepted to be a defining advance in modern NMR analysis. This was the work of Richard Ernst and his colleagues in Zurich, Switzerland, the same group that had, around 10 years earlier, developed Fourier-transform (FT) NMR. Both milestones were rewarded with the Nobel Prize for Chemistry in 1991. Fast forward to more recent times, when the desire for automated quantitative NMR (qNMR) analysis has become the challenge to solve. [Read more >](#)



### Resolution enhancement and proton proximity probed by 3D TQ/DQ/SQ proton NMR spectroscopy under ultrafast magic-angle-spinning beyond 70 kHz



Proton nuclear magnetic resonance (NMR) in solid state has gained significant attention in recent years due to the remarkable resolution and sensitivity enhancement afforded by ultrafast magic-angle-spinning (MAS). In spite of the substantial suppression of  $^1\text{H}$ - $^1\text{H}$  dipolar couplings, the proton spectral resolution is still poor compared to that of  $^{13}\text{C}$  or  $^{15}\text{N}$  NMR, rendering it challenging for the structural and conformational analysis of complex chemicals or biological solids. Herein, by utilizing the benefits of double-quantum (DQ) and triple-quantum (TQ) coherences, the authors propose a 3D single-channel pulse sequence that correlates proton triple-quantum/double-quantum/single-quantum (TQ/DQ/SQ) chemical shifts. [Read more>](#)

### JEOL NMR Around the World



Praise from JEOL's most long-standing academic customer in the Czech Republic. JEOL NMR is relied on around the world for routine and complex NMR experiments. What can we help you achieve? [Watch the video>>>](#)

### Announcing JEOL Financial Services

No one knows JEOL equipment better than JEOL and our customers. This is why, effective July 1st 2019, we're making it easier than ever for you to acquire our equipment via financing, at historically-low rates, and in some cases, below-market rates such as 0% financing.

#### Benefits of the new JEOL Financial Services Program

- + Finance 100% of your project (with no down-payment necessary)
- + Accelerate your return on investment (ROI) with no delays
- + Customize your repayment terms, for example: bridge-to-budget solutions and pre-grant funding
- + No fees and simple process
- + Conserve cash and credit lines

- + Align expenses with revenues
- + Accounting and tax benefits

[Click here](#) to learn about financing any JEOL system.

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## JEOL Workshop at ACS Fall

Going to ACS? [Visit JEOL in booth #2031 and attend our NMR workshop!](#)

**When: Monday, August 26, 3:45-4:45PM**

**Where: San Diego Convention Center, Exhibit Hall E, Expo Theater 2**

**What: Utilizing HFX-style NMR Experiments to Assist in Structure Elucidation of Fluorinated Small Molecules**

*Fluorinated molecules have continued to become more and more prominent in pharmaceutical, agricultural, and material science applications. Fluorine's NMR properties provide the chemist both additional tools as well as additional challenges for complete structure elucidation. This workshop will focus on practical aspects of collecting and interpreting data using HFX techniques.*



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