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Mass Spectrometry

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**Thermo Fisher Scientific Introduces Exactive: a New Benchtop LC-MS System for
Compound Screening and Identification**

Powered by Orbitrap™ technology

San Jose, CA (May 29 2008) – Thermo Fisher Scientific Inc. (NYSE: TMO), the world leader in serving science, today announced that it will launch the Thermo Scientific Exactive™, a new benchtop LC-MS system designed for compound screening and identification applications, at ASMS 2008. Exactive leverages proven mass analyzer technology from the LTQ Orbitrap™ platform, the recognized standard for accurate mass and high resolution measurement, to provide precise and confident information. It is fast, easy-to-use and cost effective to operate, making it an ideal instrument for non-experts in routine analytical laboratories.

“Orbitrap technology has been an important driver of LC-MS growth in the world of biology,” noted Ian Jardine, vice president of global research and development at Thermo Fisher Scientific. “We asked ourselves what we could do to fully realize the potential of this technology, to make it even more accessible to users with routine toxicology, environmental and drug development workflows. The result is an instrument that we consider a real breakthrough, that can be applied to a great number of challenging new applications.”

The Thermo Scientific Exactive LC-MS streamlines many of the technical steps that normally require specialized set up and operation. An intuitive software interface makes the system easy-to-use in both expert and “walk-up” mode, while ensuring precise mass identification of target compounds over a wide concentration range.

While simple to operate, Exactive sets new standards for LC-MS performance, at resolutions of up to 100,000. When combined with excellent single scan mass accuracy in positive and negative modes, Exactive becomes an ideal system for common screening and high-throughput applications. “Mass accuracy plays a critical role in reducing analysis times and increasing confidence even in routine measurements,” notes Dr. Jardine. “Co-eluting compounds in complex matrices can be screened and confirmed in a single experiment simply by reanalyzing data at a higher resolution. For screening of isobaric compounds such as pesticides that differ by only a few milli-mass units, this accurate mass capability will be of enormous value.”

For more information on the Thermo Scientific Exactive LC-MS system, as well as other Thermo Scientific products, please visit the Thermo Scientific booth 41 at the 56th ASMS Conference on Mass Spectrometry and Allied Topics, in Denver, June 1-5. Alternatively, call +1 800-532-4752, email analyze@thermofisher.com or visit www.thermo.com/Exactive.

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