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Media Contact:

Fiona Robinson
The Scott Partnership
Tel: +44 1477 539539
Email: cerno@scottpr.com

Yongdong Wang
Cerno Bioscience
+1 203-312-1151
yongdong.wang@cernobioscience.com

Cerno Bioscience Announces Spectral Accuracy is a Proven Companion Concept to Mass Accuracy for Mass Spectrometry

Danbury, CT. (21 September 2010) – Cerno Bioscience today announces that spectral accuracy is a proven companion concept for mass spectrometry (MS). Spectral accuracy, a companion concept to the better known mass accuracy, enables new capabilities for MS previously thought unfeasible. These include elemental composition determination (formula ID) with even a single quadrupole GC/MS or LC/MS and the elimination of up to 99% of incorrect formulas on high resolution MS systems through mass accuracy alone.

The concept of spectral accuracy for MS has more crucial relevance to the ions being measured and the MS instrumentation used. By utilizing a novel calibration scheme to correct not only m/z but more importantly peak shape, up to 100 times better mass accuracy and unparallel spectral accuracy could be achieved on an otherwise conventional unit mass resolution quadrupole system for elemental composition determination, a capability typically reserved for higher resolution MS systems. This is accomplished through a process called CLIPS™ in the commercially available MassWorks™ software. Equally importantly, the unique peak shape calibration (sCLIPS™) of high resolution MS data obtained with TOF, qTOF, Orbitrap or other FTMS systems can achieve high spectral accuracy to eliminate the majority of incorrect formula candidates from consideration.

A new paper entitled: "The Concept of Spectral Accuracy for MS" which discusses and demonstrates this concept in more detail has been published in *Analytical Chemistry*, a leading peer-reviewed publication and is the September 1 issue front cover feature. To access Cerno Bioscience's recently published article in *Analytical Chemistry*, please visit <http://pubs.acs.org/doi/full/10.1021/ac100888b>

Dr. Yongdong Wang, President of Cerno Bioscience comments: "After being awarded the most innovative new product at its debut at PittCon 2006, MassWorks has enjoyed great commercial success with 100% growth year-after-year by winning over hundreds of loyal users worldwide, even during the economic recession. The acceptance and publication of this cover feature article by this authoritative journal marks another important milestone for Cerno by underscoring the technical superiority of Cerno technologies."



For more information on Cerno Bioscience and MassWorks, please email info@cernobioscience.com, call +1 203-312-1150, or visit www.cernobioscience.com.

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For further press information please contact Fiona Robinson, 1 Whiteside, Station Road, Holmes Chapel, Cheshire, CW4 8AA Tel: 44 1477 539539 Fax: 44 1477 529540 e-mail: cerno@scottpr.com

About Cerno Bioscience

Cerno is dedicated to the practical application of modern mathematical techniques to Mass Spectrometry for the purpose of improving the quality, accuracy and reliability of MS analysis. These techniques can be used to dramatically improve the amount of information obtainable from and reduce the amount of time required of many MS experiments. Cerno's technologies are proprietary and protected through numerous patents granted and submitted world-wide. For more information on Cerno MS technologies, applications, or products please visit our Web site: www.cernobioscience.com.

About Cerno Bioscience Products

Cerno Bioscience's MassWorks family of software products performs post-acquisition MS calibration and formula determination through either CLIPS at unit mass resolution or sCLIPS at higher resolution. It supports all major MS vendor data formats and works with all MS instruments including GC/MS, LC/MS, TOF, qTOF, and FT MS. Cerno Bioscience products are used in major R&D labs for pharmaceuticals, food, beverages, flavors, fragrances, natural products, environmental analysis, forensics, fine chemicals and petrochemicals. For more information, please visit: <http://www.cernobioscience.com/products.html>.

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