

# Press Release

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## **Fast GC/GCMS and LC/LCMS Specialized systems for fast analytics**

**Analyses in record time /  
Detection of trace components and structure elucidation /  
Technology combined with user know-how offers great  
advantages**

Shimadzu, one of the world leaders in analytical instrumentation, will present two extraordinary chromatographic systems during the Analytica 2006: the LC-20A *prominence* and the new GCMS-QP2010 Plus. Both systems are highly suited to fast and ultra-fast analysis. State-of-the-art instrument and column technology combined with user know-how enable laboratories to benefit fully from the advantages that fast GC/GCMS and fast LC/LCMS have to offer. By combining chromatography with mass spectrometry, it is possible to detect very low trace concentrations of compounds while simultaneously carrying out structure elucidation.

### **Analysis cycle of 23 seconds**

Using HPLC systems such as the LC-20A *prominence*, separations can be carried out within seconds through an intelligent combination

of instrument technology, particle diameter, flow rate and temperature, without having to make any compromises in terms of validation, flexibility, robustness and accuracy. Analysis cycles of only 23 seconds are possible, including injection, gradient separation and equilibration – supported by the LC-10A autosampler that enables fast injection within 10 seconds and the new Shim-Pack XR-ODS column.

Shimadzu introduced the LC-20A *prominence* in 2005. In addition to improved specifications, the system reflects a new HPLC philosophy that centers on simplicity and flexibility and features new communicative functionalities supported by the integrated web-server.

### **Efficient, simple, and excellent**

Fast GC and high productivity have been the focal point of development of the GC-2010 gas chromatograph. An electronic pressure and flow control for high pressures and high split ratios, as well as highly sensitive, fast detectors featuring high data acquisition frequency of 250 Hz, are therefore part of the highly modern standard version. In this way ‘fast-data’ acquisition can be realized with exceptionally high reliability and excellent reproducibility.

### **Unbeatable team**

Together with the GCMS-QP2010 Plus and GCMS-QP2010S, the GC-2010 series represents an unbeatable team in fast GC. With the ‘high-speed quadrupole’ featuring a data acquisition frequency of up to 50 Hz in the scan mode and a scan rate of maximum 10,000 amu/s, sufficient data points are obtained for every peak, no matter how narrow, needed to achieve accurate identification and quantification.



Caption: For fast analysis: the HPLC system LC-20A *prominence* and GCMS-QP2010 Plus

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