

## RESOURCES

### NEW PRODUCTS

#### Chromatography

##### Disposable columns

Varian's (Palo Alto, CA) range of pre-packed disposable columns for flash chromatography help speed the drug discovery process by offering faster, more reliable purification and by eliminating column-packing procedures. Throughput is further improved through full compatibility with the new generation of automated systems involved in drug development and synthesis applications.

<http://www.varianinc.com>



##### HPLC system

The all-in-one Breeze high-performance liquid chromatography system from Waters (Milford, MA) consists of a binary or isocratic pump, automated or manual injector, UV or refractive index detector, and easy-to-use software. It is designed for laboratories with limited financial and technical resources needing basic HPLC-derived information.

<http://www.waters.com>



##### Disposable capsules

Pall Biopharmaceuticals' (East Hills, NY) Mustang Q disposable capsules and cartridges can replace traditional chromatography columns used in the removal of DNA

from biopharmaceuticals. There is no need for packing, cleaning, and cleaning validation, and the amount of buffers, cleaning solutions, and labor is reduced. Mustang Q disposable capsules and cartridges can handle volumes from 10 to 10,000 L.

<http://www.pall.com>

##### Preparative chromatography system

Available from Prior Separation Technology (Goetzis, Austria), the Preparative Continuous Annular Chromatography (P-CAC) system overcomes the most serious scale-up limitation of existing chromatography technology (i.e., loss of productivity. P-CAC technology allows chromatography to be used freely in industrial processes, and widens the range of methods that can be used at large scale by keeping separation quality constant during scale-up). P-CAC not only increases productivity and product yield, but also reduces the need for expensive separation media by turning product isolation from traditional batchwise operation, with its long non-productive periods, into a highly efficient continuous production process.

<http://www.priorsep.com>

#### Mass spectrometry



##### Compact triple quad MS

The TSQ Quantum from Thermo Finnigan (San Jose, CA) is the first high-resolution, ultra-compact benchtop triple quadrupole mass spectrometer. Its patented HyperQuad technology provides high ion transmission and mass selectivity resulting in unparalleled resolution, ion transmission, and quantitative performance, and a new 90° collision cell is part of a unique analyzer geometry that has reduced the triple quad to a size of 55 by 56 by 79 cm. Included are the proven Xcalibur control and analysis software, and a suite of software products for quantitative, metabolite ID, drug discovery, and proteomic applications.

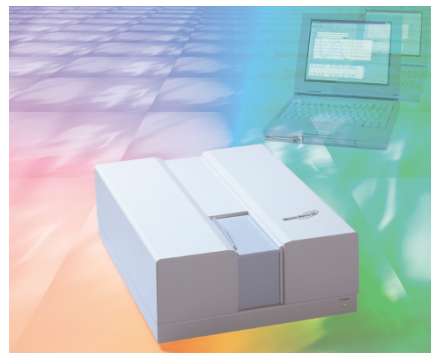
<http://www.thermoфинnigan.com>



##### Advanced MS

The Quattro *micro* tandem quadrupole LC-MS-MS from Micromass (Manchester, UK) is small (needing only 390 mm of linear bench space), smart (the software includes Mass-Informatics and MassLynx v3.5 with QuadLynx), and wired (network capability enables distribution of data capture, data interpretation, and results presentation functions). Additional features include a differentially pumped vacuum system and Micromass' patented ZSPRAY Atmospheric Pressure Ionization inlet technology for LC-MS-MS.

<http://www.micromass.co.uk>



##### Photodiode array spectrometry

The Gene Spec III from Hitachi Genetic Systems (MiraiBio, Alameda, CA) allows for greater sensitivity and precision than conventional spectrophotometers, while analyzing samples as small as one microliter within eight seconds. Gene Spec III scans and quantifies DNA/RNA, as well as protein samples. The instrument has software for DNA/RNA measurement that measures absorbance, 260/280 nm ratio, concentration, and purity. Other capabilities include wavelength scanning, time scans, and quantitation. Gene Spec III measures and displays samples and their results in a complete spectrum from 190 to 1100 nm.

<http://www.miraibio.com>