Automated Genomic Plant DNA Purification
The AutoGen 540 system has a new protocol in which genomic DNA can be isolated from eight samples of plant tissue in 90 min. Starting with 20 to 50 mg of lyophilized tissue ground in liquid nitrogen, the system can yield 10 to 40 μg of genomic DNA of sufficient purity, quality, and molecular weight for Southern (DNA) blot analysis or polymerase chain reaction application. The fully automated, programmable nucleic acid purification system is a compact bench-top unit that combines advanced microprocessor robotics, precise reagent delivery, and an integral centrifuge to prepare high-quality nucleic acid preparations without user intervention. AutoGen Instruments. Circle 139.

Chemical Experiment Software
Outokumpu HSC Chemistry for Windows allows the chemist or engineer to carry out chemical experiments in the memory of the computer without expensive laboratory equipment and time-consuming test work. The software contains seven chemical reaction and equilibria calculation options: reaction equations, heat and material balances, equilibrium compositions, electrochemical cell equilibria, formula weights, phase stability diagrams, and Eh-pH diagrams. The seven calculation options automatically make use of a thermochemical database that includes 5600 chemical compounds. Outokumpu Research. Circle 140.

Messenger RNA Kits
Oligotex-dT mRNA Kits provide a fast and simple way to purify polyA+ mRNA. About 90% of the mRNA can be recovered in 20 min with a spin column protocol. The unique Oligotex-dT suspension contains uniformly sized, spherical latex particles that provide maximal surface area for binding of polyA+ mRNA in a small volume. No ethanol precipitation is required. Each kit contains RNase-free reagents and buffers, spin columns, and a handbook. QIAGEN. Circle 141.

Transcription Kits for Capped RNA
The mMESSAGE mMACHINE in vitro transcription kits are for synthesis of large amounts of capped RNA. The kits yield from 15 to 25 μg of capped RNA per microgram of template DNA in a 20-μl reaction. The reaction requires only mixing DNA template with enzyme mix, nucleotide mix, reaction buffer, and water to a final volume of 20 μl and then incubating at 37°C for 1 hour. Ambion. Circle 142.

Fluorescent Image Analysis System
The FMBIO FluorImager is the life science market's first filmless, nonradioactive image analysis system to use fluorescent labeling techniques, according to the manufacturer. Fluorescent labeling represents a key breakthrough in image analysis because radioactive compounds are unnecessary. Images are of higher resolution, and results are achieved more quickly than with radioactive techniques. Among the FluorImager's molecular biology research applications are dideoxy sequencing, DNA hybridization, agarose gel electrophoresis, Southern (DNA) and Northern (RNA) blotting, protein immunoblotting, and polymerase chain reaction quantitation. Reagent kits are available for DNA sequencing, protein immunoblotting, nuclear staining, and DNA labeling, with more kits planned. Hitachi Software Engineering America. Circle 143.

Bioreactors
The fully automated OPTICELL systems (5200R, 5200E, and 5300E) are suitable for immobilization, growth, and long-term maintenance (continuous perfusion) of both suspension and anchorage-dependent cells, including vaccine applications. Based on a patented ceramic matrix, Opticore bioreactors vary in size for flexibility and scalability. Morris Research. Circle 145.

Literature
BCCM is a brochure illustrating the broad spectrum of microbiological services of the Belgian Coordinated Collections of Microorganisms, including identification, molecular fingerprinting, safe deposit, patent deposit, and contract research (such as isolation and screening of new strains). BCCM. Circle 146.

Chemistry Takes Shape with CAChe: Practical Solutions for the Bench Chemist is a brochure on a chemical development workstation with major hardware and software enhancements to improve computing performance and ease the transition to computer-aided chemistry. CAChe Scientific. Circle 147.


The ComSep LC100 Liquid Chromatography System describes a system for convective chromatography that can separate biomolecules in minutes instead of the hours required for more conventional methods. Millipore. Circle 150.