Dynamic Array
The 48.48 Dynamic Array provides an efficient platform for single-cell gene expression quantification studies using off-the-shelf TaqMan polymerase chain reaction (PCR) assays and reagents. Fluidigm has introduced a new single-cell gene expression technique that, when used with the BioMark System, produces inexpensive, reproducible gene expression results from single-cell samples. The key to this advance is the matrix of channels, chambers, and valves in the 48.48 Dynamic Array that do the work of assembling assays. Scientists can use the product to enjoy the same quantitative PCR data quality and experimental flexibility that they are currently receiving from 384-well systems while increasing throughput 24 times. Users can test 48 genes against 48 samples in a single run.
Fluidigm Europe
For information +33-44-259-3861
www.fluidigm.com

Workflow Automation
Two new instruments can help laboratories automate their workflow. Rotor-Gene Q is a real-time polymerase chain reaction (PCR) cycler. QIAgility enables PCR setup in a wide range of formats. Rotor-Gene Q offers high-resolution melting and fast PCR on one instrument, suitable for many emerging applications. It features superior thermal and optical performance, unbreakable tubes, and flexible formats. Maintenance and calibration requirements are minimal. Versatile software enables real-time analysis. QIAgility’s rapid, reliable PCR setup eliminates manual pipetting steps prone to human error. Operated via easy-to-use software, its products are ready for immediate use in downstream applications.
Qiagen
For information 001-240-686-7660
www.qiagen.com

Drug Candidate Software
FieldStere software enables medicinal chemists to enrich their short-list of drug candidates with structurally diverse compounds that share the same desired biological activities (bioisosteres). FieldStere allows the fine-tuning of the resulting bioisosteres to enhance potency and specificity while removing undesirable absorption, distribution, metabolism, excretion, and other properties. FieldStere builds on the proprietary Field technology, which describes chemical structures in terms of the surface properties of the whole molecule. These properties accurately predict how a compound will interact with other molecules. The Field technology has applications in lead optimization, candidate switching, compound evaluation, and investigation of new patent opportunities.
Cresset Biomolecular Discovery
For information +44-1707-356120
www.cresset-bmd.com

Protein Extraction Buffer
The new 2-D Protein Extraction Buffer line is a series of six buffers for efficient and reproducible extraction of high-quality protein lysates with high yield. The protein lysates are suitable for applications such as two-dimensional (2D) gel analysis and one-dimensional gel electrophoresis, or for rehydrating immobilized pH gradient strips prior to 2D electrophoresis. The new buffers are modifications of well-studied protein solubilizers, and are supplied as dry powders that are rehydrated with the diluent provided. The dry powder formulation eliminates problems associated with carbamylation, which can occur in solutions containing urea and may alter protein charge.
GE Healthcare
For Information 262-501-0777
www.ge lifesciences.com

Sealing Film
ThermalSeal RTS films for high-clarity sealing combine clear 50 µm polyolefin with a 50 µm encapsulated silicone adhesive layer. This unique construction provides for superior performance in real-time quantitative polymerase chain reaction, crystallization, and storage applications. The chemically inert silicone is nontacky for easy handling until pressed to a microplate, which releases adhesive in sealing areas only. The films are free of deoxyribonuclease and ribonuclease, are DMSO resistant, and exhibit minimal autofluorescence. They are sized to fit within the rim of any standard rim-raised plate. Their temperature range is -70°C to +100°C.
Excel Scientific
For Information 760-246-4545
www.excel scientific.com

Refrigerated Benchtop Bath
The FTS-Multi-Cool is a mechanically refrigerated benchtop bath that eliminates the costs and hazards associated with coolants such as liquid nitrogen and dry ice. Compact and self-contained, the Multi-Cool provides up to eight liters of working fluid at temperatures between -80°C and +100°C, with temperature control ±0.1°C. Fitted with an integral magnetic stirrer with variable speed control, the Multi-Cool offers temperature uniformity and stability, enabling superior results to be achieved in applications including Charpy impact testing, controlled temperature reactions, pour-point determinations, tissue freezing, and viscosity studies. An RS232 interface allows control and data collection from a remote location.
SP Industries
For information 845-687-5315
www.sp industries.com

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Science 324 (5930), 1092.
DOI: 10.1126/science.324_1092a

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