

# Lab+Life SCIENTIST



Bushfire smoke and  
mass germination

SEPTEMBER 2015  
VOL.26 NO.4  
PP100008671

ANALYTICAL | BIOTECH | ENVIRONMENTAL | INDUSTRIAL | LIFE SCIENCES | MEDICAL

## Analysis of differential expression of genes and proteins

The nCounter SPRINT Profiler, from NanoString Technologies, is a benchtop instrument system used to analyse differential expression of genes and proteins.

The product enables users to analyse tens to hundreds of targets simultaneously using single-tube multiplexing and avoid waste by eliminating RNA extraction. Users can process crude cell lysates from as few as 2500 cells.

The system's intuitive workflow requires only 10 min of hands-on time from sample to data. It can thus be deployed without the need to hire additional staff.

Results are obtained from a simple CSV file that contains direct counts for each target. Data can either be analysed in the included nSolver Analysis Software or imported into the user's favourite application.

The system is said to eliminate cDNA synthesis, amplification and library prep so users can experience less technical variation in their assays. They can therefore work faster as the need for experimental replicates is reduced.

**Bio-Strategy Pty Ltd**  
[www.bio-strategy.com](http://www.bio-strategy.com)



## Rotor mills

The RETSCH SR 300 and SK 300 rotor mills are claimed to have been greatly improved with regard to performance, handling and flexibility. Due to their robust design, the rotor mills are suitable for applications in the laboratory as well as for small-scale production.

The speed of the rotor beater mill SR 300 has been increased and can be set between 3000 and 10,000 rpm, thus allowing for optimum adaptation to application requirements. Further features are the removable cassette and push-fit rotor that can be easily taken out for cleaning without using tools, just like the removable hopper. The cassette allows for almost 100% sample recovery. The grinding chamber, feed hopper and material inlet and outlet are made from high-quality stainless steel. The product is therefore suitable for use in pharmaceutical and food laboratories.

The cross beater mill SK 300 now also operates with higher speed, which can be set from 2000 to 4000 rpm. The grinding insert and rotor are as easily removable as in the SR 300. Both mills can be equipped with an optional cyclone, which improves material discharge, particularly for very fine particle sizes, and provides additional cooling of the sample.

**MEP Instruments Pty Limited**  
[www.mep.net.au](http://www.mep.net.au)



## High-speed centrifuge

The CM-50MP MiniPrep Master, from ELMi, is a vortexing high-speed centrifuge which is programmable for all of the steps in a nucleic acid or protein purification process.

The device functions as a 12-place microcentrifuge at up to 12,400 x g; as a variable-intensity vortex for tubes; in a spin/mix/spin mode for vortexing low-volume samples; and as a programmable extractor for rapid and repeatable sample preparation, whether of DNA, RNA or protein preps. Bead bashing is another application.

**Point of Care Diagnostics**  
[www.pocd.com.au](http://www.pocd.com.au)

[www.kartell.com.au](http://www.kartell.com.au)

**Kartell** Labware division

Distributors in every State in Australia

## Retire your test tubes



### Inlabtec Automated Serial Dilution System



- Fast.
- Precise.
- Reliable.
- Cost efficient.

P 02 9882 3666 E [amsl@amsl.com.au](mailto:amsl@amsl.com.au) W [www.amsl.com.au](http://www.amsl.com.au)