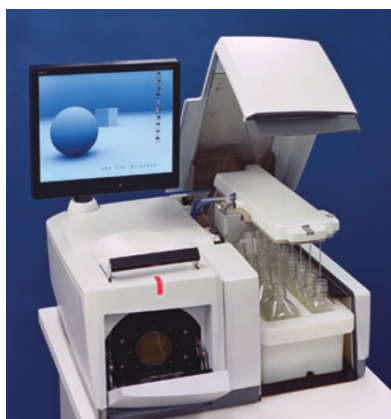


Synthesis & sequencing



Nanotech-based sequencing

Roche and 454 Life Sciences, a subsidiary of CuraGen, offer a nanotechnology-based genome sequencing system that allows a single instrument to produce over 20 million nucleotide bases per 4-hour run, totaling more than 100 times the capacity of instruments using current macro-scale technology. 454 Life Sciences' technology is based on integrating proprietary picoliter-technologies, patented light-emitting sequencing chemistries and state of the art informatics. The patented system is a scalable, ultra-fast and cost-effective system with applications for whole genome sequencing and deep sequencing of genes of interest, and is available with proprietary kits and reagents.

<http://www.roche-diagnostics.com/>
<http://www.454.com/>



Genetic analysis

Applied Biosystems' 3130 and 3130*xl* genetic analyzers enable users to perform a wide variety of sequencing and fragment analysis applications, *de novo* sequencing, resequencing, mutation detection, single nucleotide polymorphism (SNP) analysis and microsatellite analysis. They reduce maintenance time by eliminating manual syringe washing and filling with a new automated polymer delivery system. Capillary arrays may be upgraded from 4 to 16, and a new detection cell heater and optimized modules result in more consistent, higher quality data across a wider range of applications with faster turnaround times.

<http://www.appliedbiosystems.com/>

Assays



Cell function assays

Designed for Guava Technologies' EasyCyte benchtop microcytometry system, four new assays expand Guava's current suite of assays for assessing cellular function in cancer-related and other areas of research, including mitochondrial membrane potential, cellular proliferation and activation of caspase 3/7 or 8 enzymes. The EasyCyte's 96-well microplate

analysis format enables researchers to easily perform hundreds of cell-based assays of differing types in a single day.

<http://www.guavatechnologies.com/>

Screening phosphodiesterases

The PDELight HTS cAMP phosphodiesterase assay kit, from Cambrex Bio Science Rockland, is a new tool for screening phosphodiesterases in high-throughput applications. Using the power of bioluminescent detection to provide a simple alternative to existing phosphodiesterase assays, it can be used with all camp-dependent phosphodiesterases to produce rapid, quality data suitable for IC_{50} determinations of screen compounds. The signal is a long-lasting luminescence with a half-life of greater than 2 hours, which facilitates batch processing. The strong signal and exceptionally low background allow use in 96-, 384- or 1,536-well formats.

<http://www.cambrex.com/>