Mass Cytometry System
The CyTOF platform enables system-level biology at single-cell resolution, on an accessible, expandable system designed for breakthrough discovery. Mass cytometry has driven the revolution of single-cell proteomics, enabling the most comprehensive understanding of cell phenotypes, signaling pathways, and function. Helios is the most advanced tool for cellular exploration, with streamlined workflows and multimodal capabilities that can transform single-cell biology. The Helios platform delivers an extensive list of features and advances to the core CyTOF technology, enhancing performance and convenience of operation. These include a more intuitive and easy-to-use software interface with real-time data display, normalization, and control. Helios also provides improved sensitivity to detect and resolve lower-abundance targets and an expanded mass range of 135 discrete channels with virtually no signal overlap or background noise as compared to conventional techniques. This enables more comprehensive and straightforward panel designs and higher-quality data sets.
Fluidigm
For info: 866-358-4354
www.fluidigm.com

Fluorescence Illumination System
The new Lumen 1600-LED fluorescence illumination system is designed for the most advanced fluorescent techniques; however, it has intuitive controls making it easy to use. The light-emitting diodes (LEDs) in the Lumen 1600 last at least 25,000 hours and deliver evenly distributed, high-intensity light for optimal excitation of fluorophores. Incorporating 16 LEDs and covering the spectrum from 365 nm to 770 nm, the Lumen 1600 is an ideal illumination tool for work involving multiple fluorophores. Using an innovative four-channel system, the Lumen 1600 allows up to four distinct fluorophores to be excited simultaneously. These LED groupings allow the use of almost all stains used in multiband combinations, allowing great flexibility in experimental work. Multiple preset modes are possible, from simple white light illumination to more advanced options with different intensities of individual LED emissions. This flexibility makes the Lumen 1600 ideal for use by imaging facilities where multiple users with different requirements use the same equipment.
Prior Scientific
For info: +44-1223-881711
www.prior.com

Cell Disruption Device
The Spiral Mill from Cellcrusher is a cooled-bead homogenizer for disrupting tough microorganisms. It is designed specifically for protein-scale work, accommodating 1–6 g samples. These samples are disrupted in reusable grinding chambers made of stainless steel to facilitate cooling. The unique cell-disruption process involves a rotating spiral inside the grinding chamber. In the narrow space between the spiral and the chamber wall, violent collisions occur between glass beads and cells, resulting in fast, effective cell lysis. The frictional heat generated by these collisions is conducted away through the steel chamber walls. Unlike those found in other bead homogenizers, the Spiral Mill’s sample chamber does not move, because agitation is induced by the rotating spiral. This design facilitates an uncomplicated, reliable cooling system involving pumped ice water. The temperature remains around 2°C during processing. The novel chamber design and simple cooling system make the Spiral Mill the ideal device for disrupting mid-size samples of the toughest microorganisms.
Cellcrusher
For info: +353-879905282
www.cellcrusher.com

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