

San Diego Biotechnology Center Opens

On March 12, Cytometry Research, LLC and Cytomation, Inc. announced their new partnership to establish the San Diego Biotechnology Center. This new center will make Cytomation's MoFlo® ultra high-speed cell sorter available to the region's biotech companies, which now rely on Cytometry Research for flow cytometry services.

Flow cytometry is the science of examining physical and chemical properties of live cells, beads, or other biological particles as they pass in a fluid stream through a measuring apparatus. This apparatus, known as a flow cytometer, uses laser excitation and fluorescence signal detection to measure parameters such as size, shape, DNA content, surface receptors, enzyme activity, membrane permeability and calcium flux.

The MoFlo® is equipped to separate and collect fluorescence-labeled single cells or beads from a sample. With this instrument, the flow cytometer nozzle is vibrated at a high frequency by a piezoelectric transducer that causes the microscopic fluid stream exiting the flow chamber to break into discrete droplets. As a cell or bead of interest reaches the droplet break-off point, it receives a positive or negative charge. As the droplets pass individually through two vertical deflection plates, the electric field created by those plates directs them toward the appropriate, user-specified collection receptacles (e.g. 96-well plate). Uncharged droplets flow into a waste receptacle. The MoFlo® can collect four samples of



interest, in addition to the waste stream, by charging cells or beads with a range of electrical charges. Cytometry Research is pleased to be able to offer its customers the expanded, state-of-the-art capabilities that the MoFlo® provides.

Cytometry Research, LLC is a private company, that provides GLP flow cytometry services for clinical and basic research applications in San Diego and throughout the U.S. Headquartered in Fort Collins, Colorado, Cytomation, Inc. is a private company with offices in Freiburg, Germany and Melbourne, Australia.

Upcoming Events

Society for Neuroscience
San Diego CA • November 10 - 15, 2001

Featured Neuroscience Antibodies: Mac-1 and TrkA receptor

AB-N05 Mac-1 monoclonal, IgG_{2b}

Species Reactivity: mouse, human Mac-1 -chain (M1/70)
Applications: immunoprecipitation; FACS analysis
Reference: Springer T *et al.* (1978)
Eur J Immunol 8:539-551.

AB-N06 Mac-1 monoclonal, IgG₁

Species Reactivity: rat CD11b (1B6)
Applications: immunoprecipitation
Reference: Mulligan MS *et al.* (1993)
J Immunol 150:2407-2417.

AB-N03 TrkA Receptor polyclonal

Species Reactivity: rat TrkA receptor (high affinity nerve growth factor receptor)
Applications: immunohistochemistry (cells, tissue); immunoprecipitation; immunoblotting
Reference: Clary DO *et al.* (1994) *Mol Biol Cell* 5:549-563.

Visit the ATS website for a complete list of antibodies.