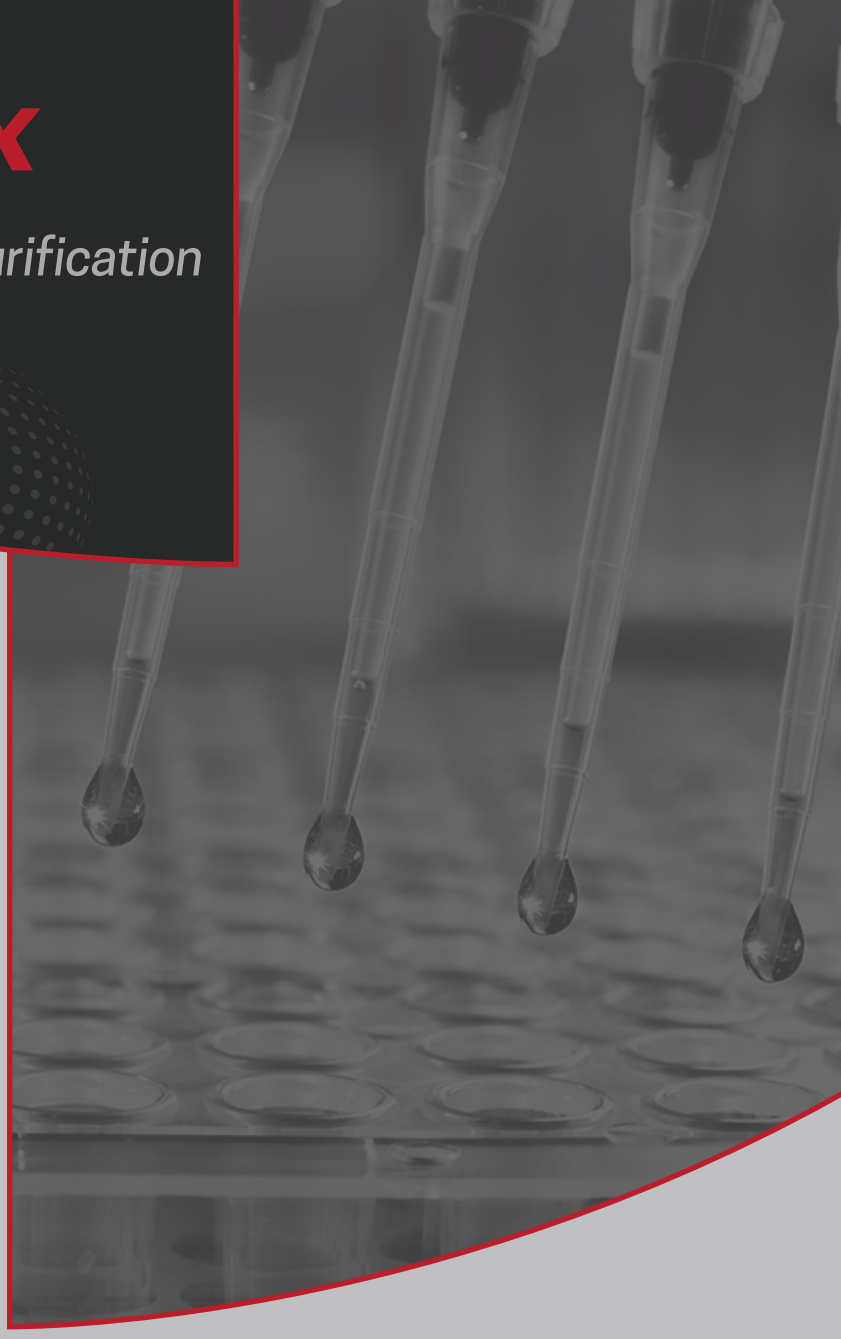
Ferrologix

The next generation of cell purification

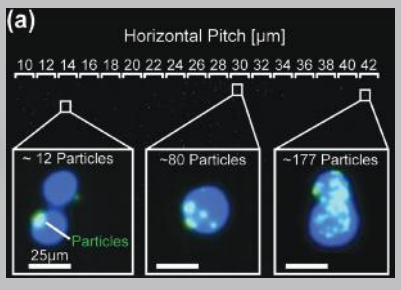


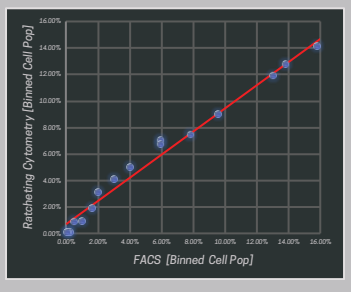
SMART SORTING

Digital Magnetic Cell Purification

Ferrologix Digital Magnetic Sorting technology, also known as "Ratcheting Cytometry," employs arrays of inexpensive magnetic micropillars patterned onto a glass substrate to form a cartridge. When subjected to a rotating magnetic field, cells which have been immunomagnetically labeled can be precisely manipulated in a massively parallelized format as they "jump" across the micropillar array.

By controlling micropillar geometry, cells can be quantitatively sorted based on a "magnetic intensity" in a similar fashion to FACS which sorts based on light intensity. Leveraging these advantages, Ferrologix digital magnetic sorting platform can provide precise and scaled cell purification in HTS formats.





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Publications

1. Murray C et. al "Unsupervised capture and profiling of rare immune cells using multi-directional magnetic ratcheting." Lab Chip. 2018 Aug 7;18(16):2396-2409.

2. Murray and Pao et. al. "Continuous and Quantitative Purification of T-Cell Subsets for Cell Therapy Manufacturing Using Magnetic Ratcheting Cytometry." SLAS Technol. 2017

3. Tseng et al. Flexible and Stretchable Micromagnet Arrays for Tunable Biointerfacing. Adv Mater. 2015;27(6):1083-1089.

4. Murray C et. al "Quantitative Magnetic Separation of Particles and Cells Using Gradient Magnetic Ratcheting." Small. 2016 Apr 13;12(14):1891-9. 3.