Kinetic River Corp. receives Phase I SBIR grant
from the National Institutes of Health

Development of Highly Multiplexed Flow Cytometry
Gets a Boost from Government Funding

Mountain View, Calif., USA, May 16, 2017– Kinetic River Corp., a leader in custom flow cytometry instrumentation, announced today having been granted a Small Business Innovation Research (SBIR) grant from the National Institutes of Health (NIH).

The 6-month Phase I grant, totaling about $225,000, was issued to Kinetic River by the National Institute of General Medical Sciences (NIGMS), an NIH institute fostering extramural research focused on development of innovative biomedical diagnostic and therapeutic platforms.

The SBIR grant is helping to fund the development of Kinetic River's "*Arno*" cell-analysis technology. This approach is aimed at expanding the multiplexing capabilities of flow cytometry while reducing the compensation issues connected with spectral overlap of fluorescent dyes, and reducing instrument footprint and complexity. Having proven the concept with internal funding in early-stage tests, Kinetic River is now looking to accelerate the *Arno* development timeline with the newly available resources.

"Receiving approval for our SBIR grant application is a huge milestone," said Giacomo Vacca, Ph.D., president of Kinetic River. "It validates our focused and extensive efforts to develop radically innovative technologies for cell analysis. Our proprietary *Arno* technology could have a wide impact in the flow cytometry industry, from reducing the size and cost of workhorse, 6-9 color instruments, to enabling machines able to measure 40 or more cell parameters simultaneously. We are thrilled to have been given the opportunity to speed up the path to market for this product platform."

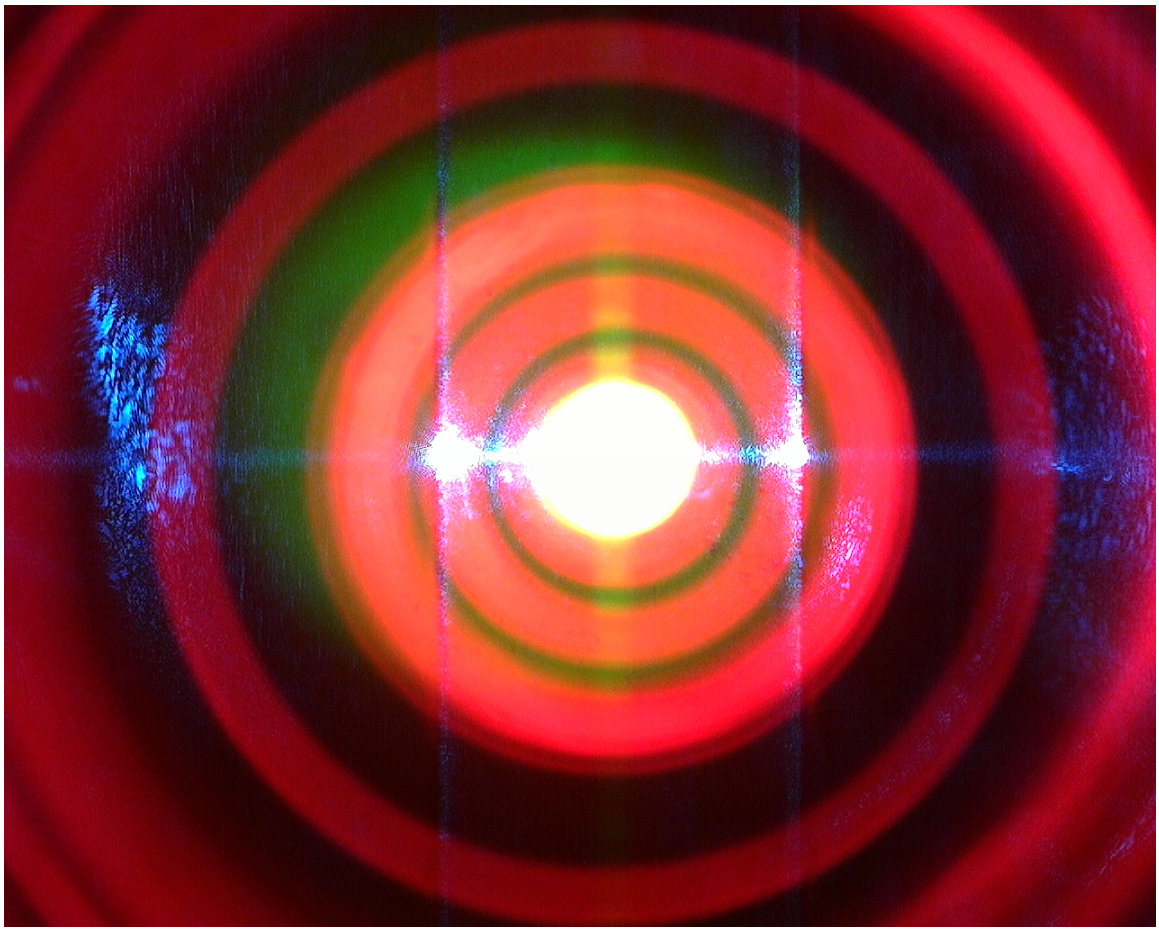
The *Arno* technology, unlike techniques like mass cytometry, can be incorporated in both cell analyzers and cell sorters, and is completely compatible with accepted workflows. Two product versions are planned. *Arno*-1 is an 8- to 11-parameter analyzer (including forward and side scatter) using a single laser, with no compensation required for overlapping fluor emission spectra. *Arno*-1 will be compact, robust, and suitable as a laboratory workhorse for all common assays, as well as many assays of moderate complexity. The high-channel-count version of the platform, *Arno*-2 is designed for detection of at least 40 parameters, and could be extended to 60 parameters. *Arno*-2 will be aimed at immunophenotyping and similar applications with a need for a high degree of multiplexing.

About Kinetic River

Kinetic River Corp. is a biophotonics design and product development company specializing in life science research and biomedical applications. Based in California's Silicon Valley, Kinetic River offers cutting-edge flow cytometry instrumentation solutions, including the Potomac modular flow cytometer and the Danube, a fluorescence lifetime flow cytometer. Kinetic River also provides a range of technical consulting services and training seminars to clients worldwide. For more information, visit KineticRiver.com.

Contact: Giacomo Vacca, President, Kinetic River Corp.; (650) 269-0726; info@KineticRiver.com

Research reported in this release was supported by NIGMS of the National Institutes of Health under grant number 1R43GM123906-01.
The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.



Laser beam (blue) excites fluorescence (green) in a sample flowing within a microchannel. Detection filters (red) separate the collected fluorescence emission light. © 2011–2017 Kinetic River Corp.

Kinetic River Corp. is based in Mountain View, Calif., the heart of Silicon Valley. © 2011–2017 Kinetic River Corp.