Kinetic River Corp. delivers *Potomac* modular flow cytometer to the National Cancer Institute

Efficient Design Customization
Allows Rapid Delivery of Custom Cell Analyzer

Mountain View, Calif., USA, February 7, 2017 – Kinetic River Corp., a leader in custom flow cytometry instrumentation, announced today the delivery of its flagship *Potomac* modular flow cytometer to the National Cancer Institute (NCI) in Bethesda, Md.

The *Potomac* flow cytometer was installed in the laboratory of William Telford, Ph.D., at the National Cancer Institute. Dr. Telford leads the Flow Cytometry Core Facility of the Experimental Transplantation and Immunology Branch (ETIB) of NCI, which supports cell analysis and sorting needs of researchers across the National Institutes of Health (NIH). He also runs an internal R&D program aimed at developing new assay and detection technologies.

Dr. Telford chose Kinetic River's *Potomac* because of its flexibility and modularity. The analyzer will be used to test novel laser sources, detectors, electronics and other technologies for flow cytometry. The *Potomac* fits the needs of customers unsatisfied with cookie-cutter flow cytometry solutions, and can accommodate unique requirements.

"The *Potomac* will allow us to perform experiments with exotic light sources that are impossible to do on standard systems," said Dr. Telford. "Kinetic River's design has the kind of flexibility we need to expand our research capabilities and provide new solutions to our users."

"Our experience and tools for system design enabled us to efficiently customize every single aspect of the *Potomac* based on NCI's needs—fluidics, optical excitation, emission collection, detection—and still deliver the final product ahead of schedule," stated Giacomo Vacca, Ph.D., president of Kinetic River. "We are thrilled to be supporting Dr. Telford's research efforts in pushing the envelope of cellular analysis."

The *Potomac* customized for NCI features a Toptica fiber-coupled, 100-mW, 488-nm laser light source, two scattering detectors, and five channels for fluorescence detection. It also combines laser beams from external sources, such as pulsed and supercontinuum lasers, for novel excitation of cell samples. Spectral separation relies on Alluxa thin-film filters. The optomechanical design uses mainly off-the-shelf Thorlabs components, which facilitated fast delivery.

Kinetic River's *Potomac* can be customized to support up to 7 lasers and up to 20 detection channels.

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* 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.

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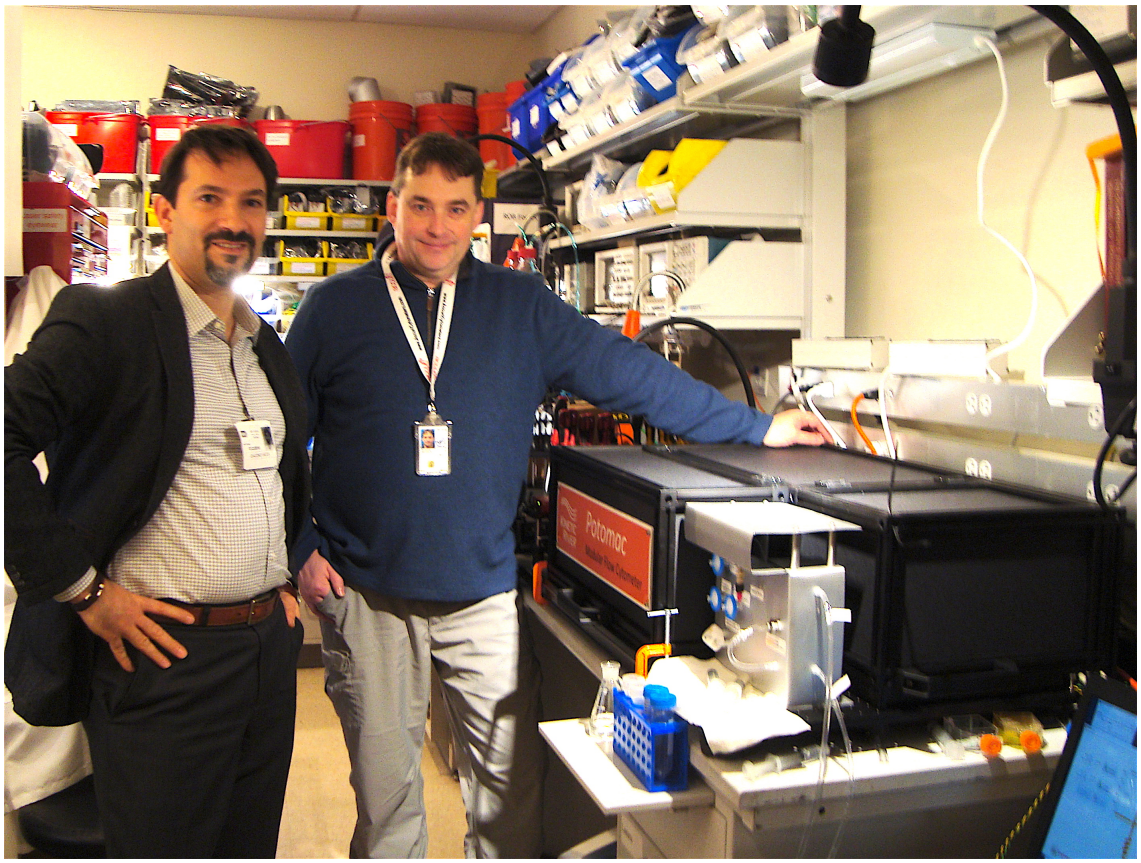
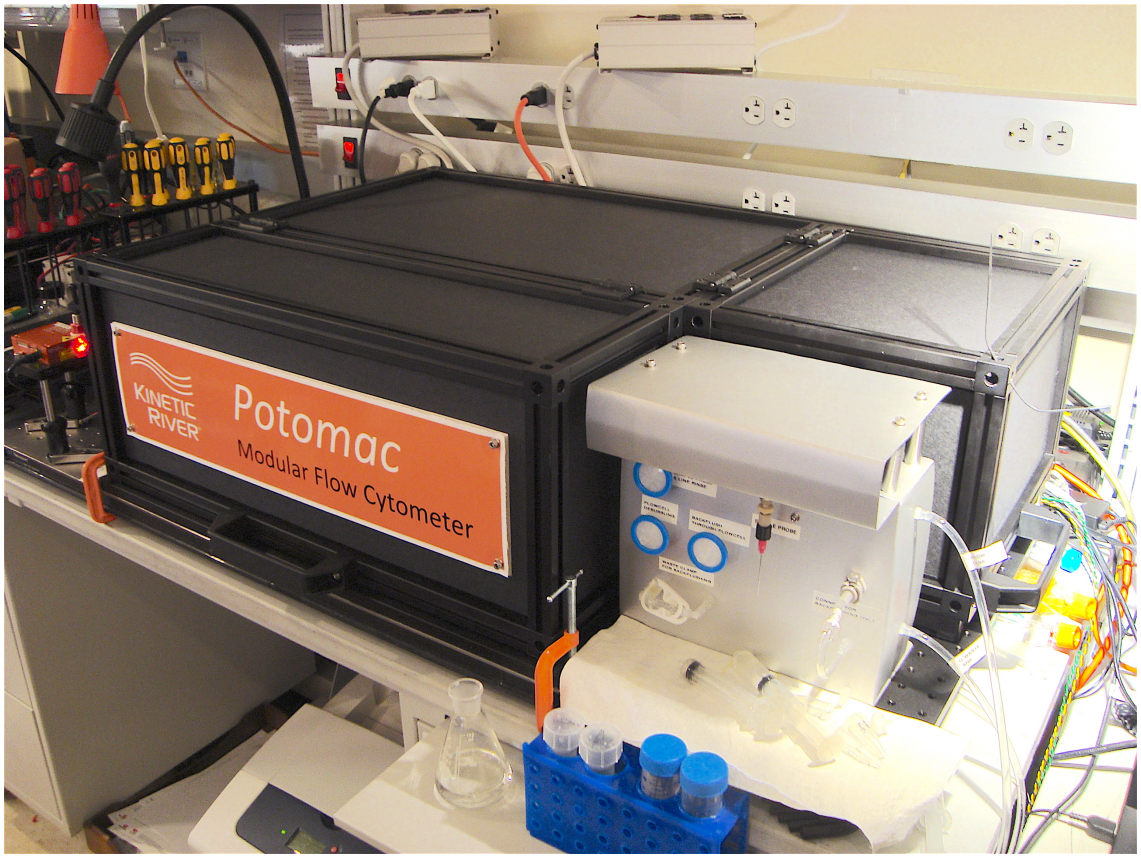


Drs. Giacomo Vacca (Kinetic River) and William Telford (NCI) during the *Potomac* installation at NCI.



The custom *Potomac* modular flow cytometer installed at NCI. This system incorporates 2 lasers and 7 detectors.