FOR IMMEDIATE RELEASE
September 8, 2022

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Spectradyne Launches New ARC Particle Analyzer

SIGNAL HILL, CA — Spectradyne today launched its second-generation product, the ARC™ particle analyzer. Spectradyne's ARC is a ground-breaking technology for analyzing biological nanoparticles in complex samples that delivers accurate particle concentration, size and single-particle, quantitative, fluorescence-based phenotyping.

According to Jean-Luc Fraikin, Spectradyne's CEO: "The ARC leverages the power of our core technology, Microfluidic Resistive Pulse Sensing (MRPS), and adds what our customers have been asking for—single-particle, fluorescence-based phenotyping to quantify particle subpopulations in complex mixtures."

The novel combination of electrical particle analysis by MRPS and quantitative phenotyping by fluorescence is first in its class and addresses key analytical challenges in a broad range of application areas. "We're hearing the most excitement about this technology from researchers in gene therapy, virus, and other nanomedicine applications including extracellular vesicles, where the particles of interest need to be analyzed in a mixture of other materials. The ARC enables accurate quantification of these particles, directly in the mixture, while simultaneously delivering an assessment of purity since MRPS detects all the other particles as well."

By enabling the detection of specific subpopulations present in complex mixtures such as biofluids, the ARC also has the potential to power development of new diagnostics. "We are pursuing collaborations in which the ARC is used to quantify new particle-based biomarkers of health and disease in this size range, where other technologies have previously been unable to reach," says Dr. Fraikin.

"Our customers have been asking for precisely this capability to solve their analytical needs, and our team has done an incredible job bringing this technology to market. We're looking forward to seeing what scientists can do with it!" Dr. Fraikin says.

For more information on Spectradyne, visit http://nanoparticleanalyzer.com/

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Development of the ARC particle analyzer was supported in part by a Small Business Innovation & Research (SBIR) grant from the National Center for Advancing Translational Sciences at the National Institutes of Health. "We are extremely grateful for the support we've received from the NCATS SBIR program for enabling the development of this new and exciting technology."

For videos, applications, and technical details of the ARC particle analyzer, visit Spectradyne's website: https://nanoparticleanalyzer.com/products_arc.php

About Spectradyne — Spectradyne's mission is to improve the efficacy and safety of nanomaterials through better metrology. Spectradyne's technology leverages microfluidics and advanced electrical sensing techniques to measure particle concentration and size with unprecedented accuracy, requiring only a tiny fraction of the sample needed by other methods.

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