

## Biotrack Diagnostics

### *Antimicrobial Resistance Rapid, Point-of-Need Diagnostic Test Challenge*

The Biotrack Rapid Microbial Testing Platform is a fully-automated, multi-sample, solid-state cytometer that can (a) rapidly discriminate between virus and bacteria, and (b) rapidly identify and quantify microbial content, and (c) can also determine viability at single-cell level. This system delivers actionable bio information in 20-120 minutes, with minimal sample prep and without user oversight or input during the testing process. It can also allow a physician to (d) quickly test to see which antibiotic will work best on a particular patient. The performance of this system, as far as speed, sensitivity, ease of use, and point-of-care deployment are concerned, exceeds the current state-of-the-science diagnostic tools. Its unique functionality, along with the autonomous actions that can be undertaken by the system's neural network, will provide an unprecedented level of relevant data that allows for trend analysis, live-dead analysis, and targeted treatments that will help in the battle against the growing threat antimicrobial resistance.