



Ciencia, Inc.
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Company Profile:

Industry Sector: Instrumentation for biomedical research and environmental monitoring

Company Overview: Incorporated in 1992, Ciencia is a privately held corporation focused on instrumentation design and development.

Target Market: Instrumentation for research in immunology and Cell Biology; Environmental monitoring of biological agents



Ciencia's Dual mode SPR Fluorescence Analyzer

Management:

Arturo O. Pilar, President and CEO
Ernest F. Guignon, Ph.D. Chief Scientific Officer

Scientific Advisory Board:

Michael A. Lynes, Professor of Molecular and Cell Biology, University of Connecticut
George Gibson, Professor of Physics, University of Connecticut
Lawrence Stern, Department of Pathology, University of Massachusetts Medical School
William Kwok, Benaroya Research Inst. at Virginia Mason, Seattle, WA
David Lawrence, Head, Cellular Immunology Program, Wadsworth Center, New York State Department of Health

Key Value Drivers:

Technology: Ciencia's patented surface plasmon resonance instrumentation provides the capability of capturing selected cell types on a microarray platform, activating the captured cells, capturing cell products and quantitatively and qualitatively measuring the cell products via SPR-enhanced fluorescence. Measurements are multiplexed (>1000 simultaneous measurements). Measurements include real-time measurement of reaction kinetics. Ciencia's instruments are compact and include data processing and storage capabilities.

Competitive Advantage: High content, real time analyses of cell functionality. SPR-enhanced cytokine measurements at femtomolar sensitivities. Compact, moderately priced instruments with embedded computer. Wide range of potential analytes.

Plan & Strategy: seeking a strategic partner

Technology funded by NIGMS, NIDDK, NIAID

Product Development:

Current products include a laboratory instrument designed for immunological and cytological research; a free-standing completely integrated instrument designed for field use in the area of environmental monitoring of pathogens or organic contaminants; a miniaturized, battery-operated instrument that is being developed for field use or as an independent sensor as part of a monitoring network.