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Physical Sciences Inc.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
 National Institutes of Health



National Institutes of Health Commercialization Assistance Program  
 (NIH-CAP)

## Company Overview

**Industry Sector:** High Content Instrumentation for Drug Discovery

**Company Overview:** An employee owned company founded in 1973 focused on providing contract R&D services to government and commercial customers. Expertise encompassing biology, optics, electronics, materials, mechanics and chemistry, photonics and optoelectronics, electro-mechanics, electrochemistry, and materials.

**Target Market(s):** Drug Discovery, Predictive Toxicology

## Key Value Drivers

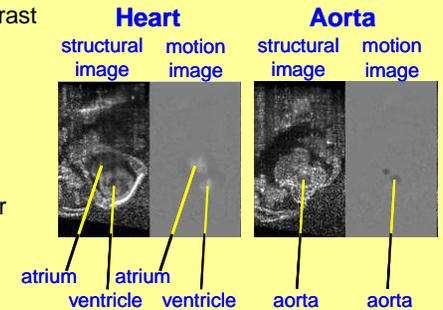
**Technology\*:** Use Optical Coherence Tomography (OCT) and optical Doppler Near infrared for deep tissue penetration. Structural Information from OCT Doppler measurement of temporal velocity. Provides mean flow across vessel over time. Movement of blood provides contrast

### Competitive Advantage:

Moderate-throughput / high content,  
 Low cost vertebrate animal model,  
 Small quantities of drug required for testing

**Plan & Strategy:** seeking a strategic partner

\*Technology funded by the NHLBI and being commercialized under the NIH-CAP



## Management

### Leadership:

Anthony Ferrante, PhD, Group Leader, Biological Sciences  
 Mark Druy, PhD, Technology Transition Manager  
 E. Jennings Taylor, PhD, Intellectual Property Manager  
 B. David Green, PhD, President & CEO

## Product Development

PSI is currently developing an advanced prototype for near infrared optical imaging assay that will detect changes in cardiac output and heart rhythm caused by drug candidates

Custom Instrument Sales: 2010  
 Product Launch: 2011

PSI SideView™ Microplates available at [www.sideviewmicroplate.com](http://www.sideviewmicroplate.com)