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

# **Company Profile**

**Industry Sector:** In Vitro Diagnostics (Blood Tests)

**Company Profile:** FFA Sciences is using high-throughput protein engineering to develop rapid easy to use and non-invasive diagnostics for human disease.

#### Target Market(s):

**Hyperbilirubinemia (jaundice) -** common condition in newborn babies that can lead to neurological damage.

**Fatty liver Disease (NAFLD) -** One of the fastest growing diseases in the U.S. – can lead to cirrhosis of the liver (requiring transplant) – occurs in children.

**Acute Coronary Syndromes (ACS)** – the largest cause of death in first world countries – desperate need for a simple blood test.

Stroke: No Accurate Blood Tests & therapies are underutilized as result.

Seeking: Alliance w/ large diagnostics Co. to manufacture & distribute.

# **Key Value Drivers**

**Technology:** The Company has developed a technology platform to molecular probes for unbound Metabolites (MET<sub>u</sub>) in blood samples. The unbound metabolites are the physiologically active fraction and therefore most important. Our results indicate that the <u>pattern</u> of these unbound MET is disease-specific. The MET<sub>u</sub> pattern generated by a particular disease provides a highly sensitive and specific diagnosis of the disease. <u>The technology uses only a drop of blood and is complete within seconds</u>.

#### **Competitive Advantage:**

Key Attribute	FFA Sciences Test	Arrows Test
		Difficult – multiple
Ease of Use	Easy – single step	steps
Accuracy	CV < 5%	CV as high as 30%
Speed	1 Minute	15-20 Minutes
Price	\$20	\$70

### **Management**

Alan Kleinfeld, Ph.D. – CEO (Member Torrey Pines Institute, Harvard University)

Inventor of Technology – Over 25 years exp w fluorescent probes

Richard Houghten – Chairman- President Torrey Pines Institute (CA & FL) Founded 3 Co's – 1 IPO & 1 Acquisition

**Kevin Kleinfeld**-Vice President (Partner ICM Capital Management-private equity) Involved in > 30 M&A transactions valued at > \$3 billion

Andrew Huber, Ph.D. - Director Protein Chemistry (Structural Genomics) 8 years exp w/ FFA & over 15 yrs exp with protein chemistry

**Baolong Zhu, Ph.D.** - Director of Molecular Biology (Dow AgroScienes) 7 years exp w/ FFA & over 20 yrs exp with molecular biology

Thomas Kwan, Ph.D. – Director Biophysics (Stanford U)

7 years exp w/ FFA & expert in polymer chemistry for testing device design

### Scientific Advisory Board:

Anthony DeMaria M.D. – Chief of Cardiology UCSD Jesse Adams – M.D. – Professor of Medicine, Jewish Hospital Louisville Brian Gibler – M.D. Chief of Emergency Medicine, U. of Cincinnati

