

Integrated BioTherapeutics, Inc.

Dr. M. Javad Aman
President and CSO
Integrated BioTherapeutics, Inc. (IBT)





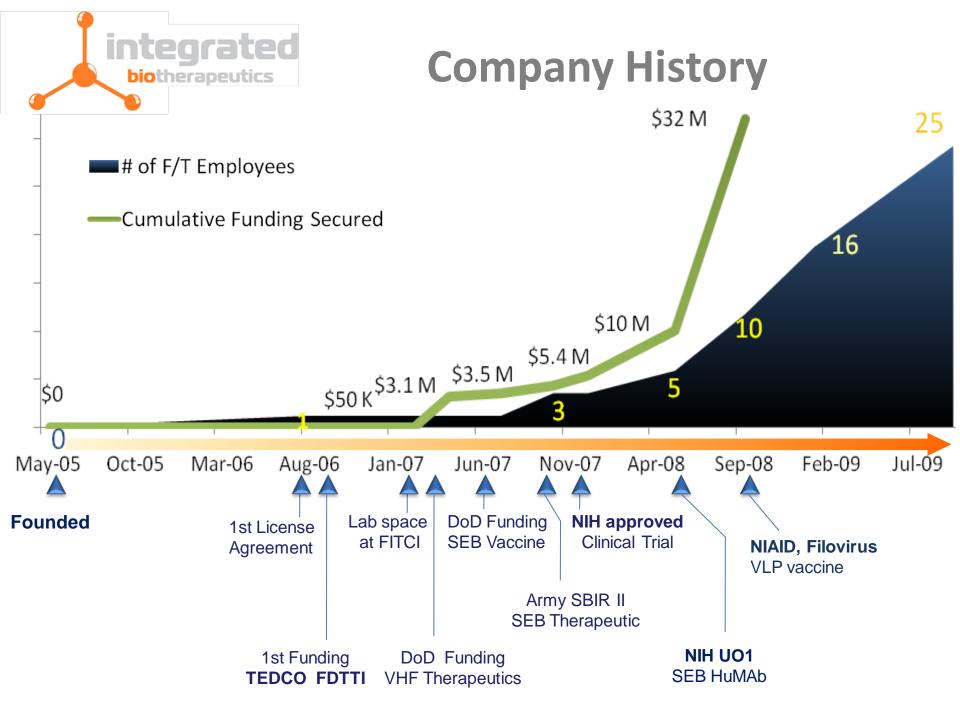
Our Company

Mission

Develop vaccines and therapeutics for infectious agents

Emphasis on:

- Biodefense Market (Filoviruses: Ebola and Marburg)
- Emerging Infectious Diseases (Staph)





A Growing Maryland Business



May 2008

IBT wins Incubator Company of the Year award for "Best Life Sciences Company"

June 2008

- -IBT graduates from FITCI business incubator
- -IBT moves into Avalon facility in Germantown

May 2009

The Tech Council of Maryland Awards IBT the "Emerging Company of the Year" for the state of Maryland



IBT Partnerships: Funding, Collaborations and Partnerships













Funding Support



Collaboration











BRIGHAM AND

WOMEN'S HOSPITAL



Scientific Platforms

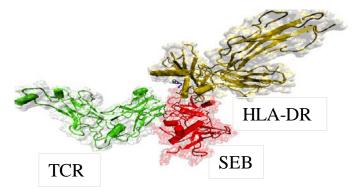
Recombinant Vaccines for Staphylococcal

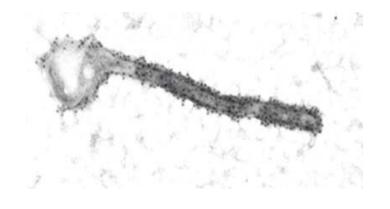
and Streptococcal Exotoxins

STEBVax IND- Biodefense
 SEB-HIG Preclinical-Biodefense

TSS-HIG Preclinical-Toxic Shock, Sepsis

SEB-HuMab Preclinical-Biodefense





Virus-Like Particle Vaccines for

Filoviruses (Ebola & Marburg) Arenavirues (Lassa & Junin) Bunyaviruses (RVFV)



IBT Product Pipeline

Phase III/ **FDA** Discovery Pre-clinical Phase I Phase II **Pivotal StudiesLicensure** FiloVax Panfilovirus VLP vaccine Vaccines **STEBVax** Recombinant SEB vaccine Multivalent Staph Vaccine SEB-HIG HyperImmune Globulin Therapeutic to SEB **Therapeutics** SEB-HuMab Human Monoclonal Ab Therapeutic TSS-HIG Toxic shock syndrome Therapeutic



NIAID Proposal

IBT was a four person company at the time

Primary Writers:

Dr. Javad Aman – Founder of IBT

Dr. Kelly Warfield (then at USAMRIID)



Photo by Skip Lawrence

IBT's Advantage: Superior technology and data to show it.

IBT's Challenges: Young company/ limited infrastructure

The Solution: Build a team to enhance capabilities

IBT secured a team of subcontractors to win the proposal



NIAID Contract Development Plan

Base Period – 4 years, ~ \$22 M in funding

- Assay Development
- Scale Up and Process Development
- Formulation and Stability
- Bridging, Efficacy, and Immune Correlate Studies

Options Phase - ~43 M in Funding

- cGMP Manufacturing and IND
- Phase I Dose Escalation Safety Clinical Trial
- 200,000 Dose Manufacturing
- Lyophylized Formulation
- Phase II Immunogenicity Clinical Trial



FiloVax Program

- Recognized expertise in Filovirus research
- Very strong technical knowledge of the technology and model
- Original inventors of the Army's Filovirus
 VLP Vaccine Candidate
- Ongoing partnership via CRADAs with USAMRIID team to develop VLP vaccine





Special Thanks to:

Maryland TEDCO

The National Institute of Allergy and Infectious Diseases and NIH