

GlimmerX:

Global ImmunoDiagnostics

***Game-Changing Diagnostics Development for
Difficult-to-Diagnose and Difficult-to-Treat Bacterial Infections***



GlimmerX

GlimmerX: A holding company



Joe Vinetz, M.D.

Founder, Consultant

Professor, Yale School of Medicine
>\$48 million in research funding to date; well connected in industry;
Expert in assay development, animal models, microbiology, immunology and human/field testing



Carla Devillers, M.B.A.

Founding Executive

Wharton M.B.A.
Highly experienced international finance, operations, and business development executive



Tsvi Goldenberg, Ph.D

Partner

Experienced innovator in start-ups
Serial entrepreneur



Wilson Sonsini Goodrich & Rosati:
Global intellectual property and corporate lawyers



Yale Accelerator for Innovation Development Team:

Colleen Lopez, PhD

Eva Leung

Konstantine Drakonakis

A story ...



Suzy!

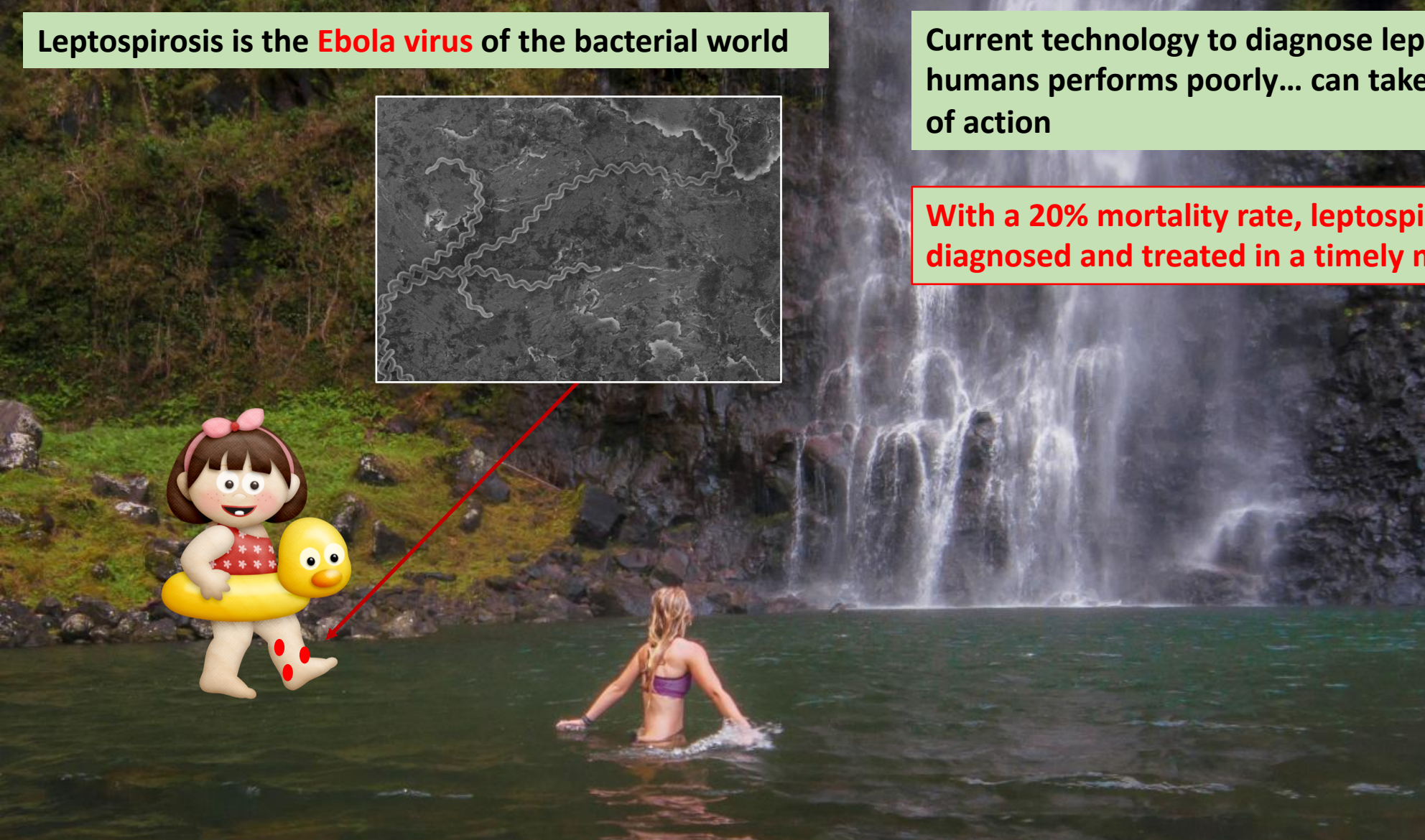
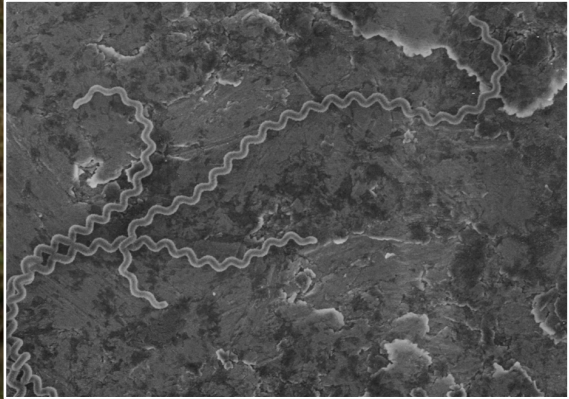


The Leptospirosis problem

Leptospirosis is the **Ebola virus** of the bacterial world

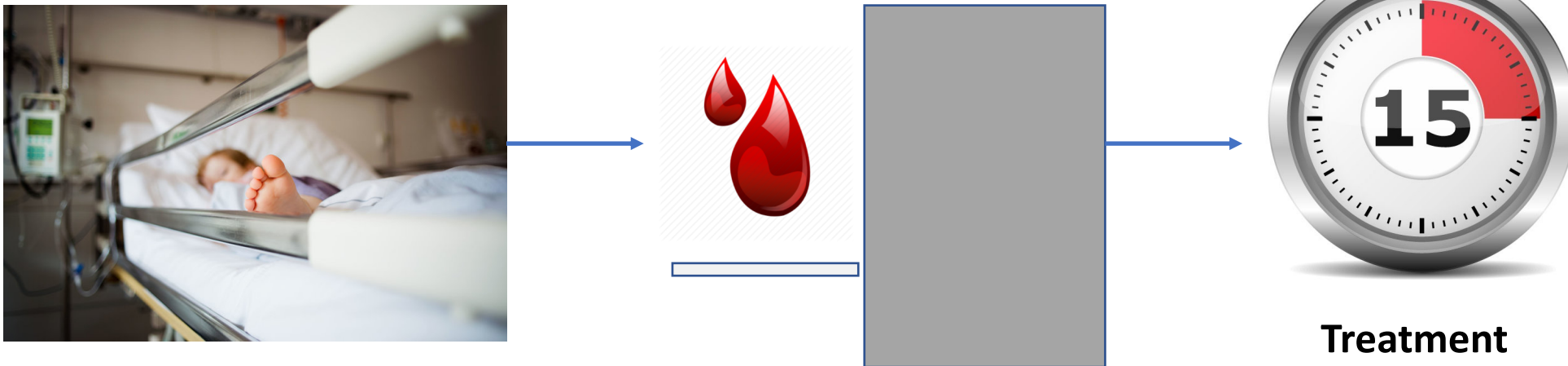
Current technology to diagnose leptospirosis in animals and humans performs poorly... can take weeks to identify a plan of action

With a 20% mortality rate, leptospirosis can be fatal if not diagnosed and treated in a timely manner



The Solution: GlimmerX

- Patent-pending IP/technology
- **BETTER, FASTER** platform for point-of-care diagnosis
- **QUICK, RELIABLE** diagnosis of hard-to-identify bacterial infections



The broader problem



Sepsis, Urinary Tract Infection, Meningitis



Delayed diagnosis
→ FATAL

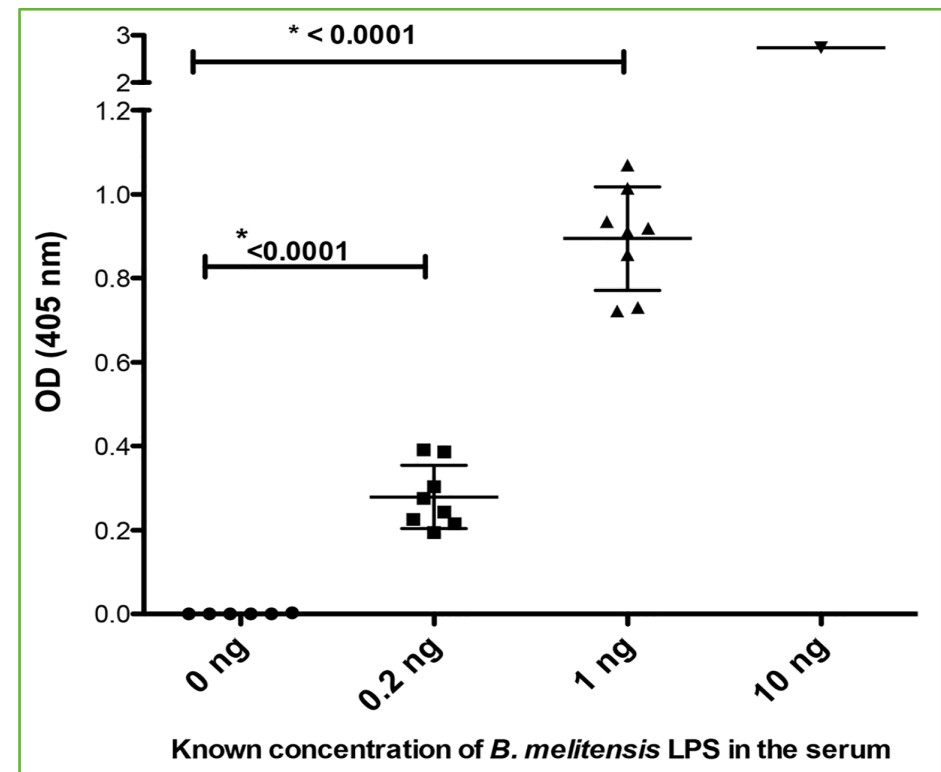
GlimmerX Technology



- Track record of discovery directed at unmet needs

- Already done it
- Newly applying it
- Will apply it to **new, untapped, vast opportunities**

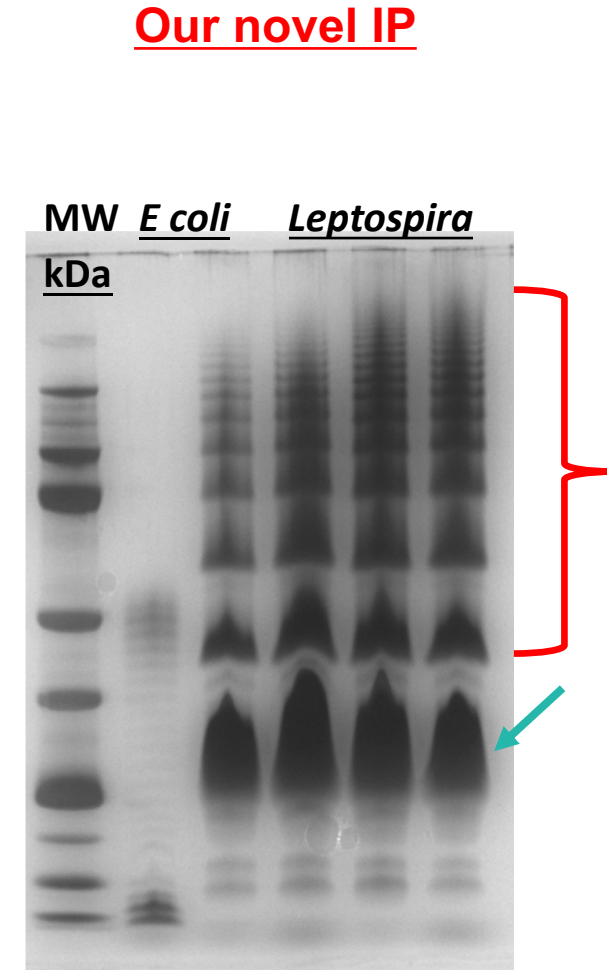
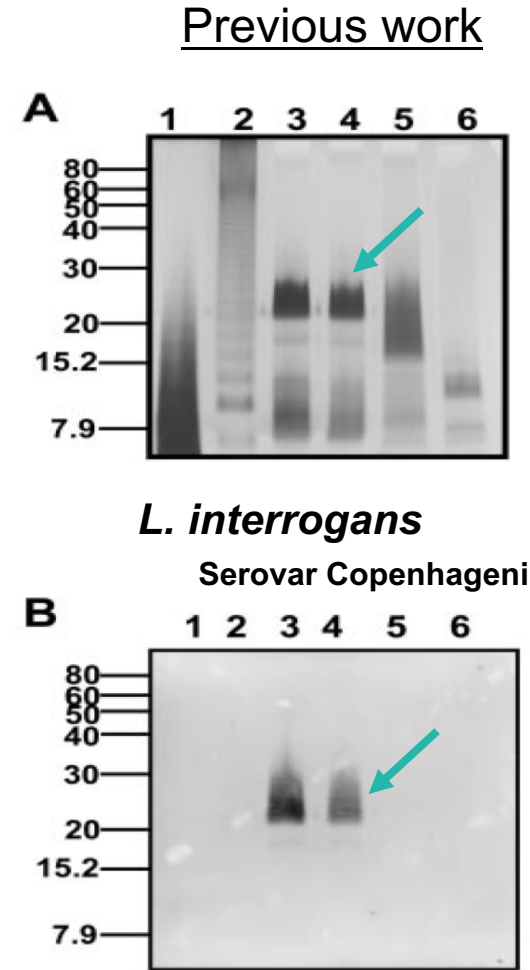
A Protein-Conjugate Approach to Develop a Monoclonal Antibody-Based Antigen Detection Test for the Diagnosis of Human Brucellosis



GlimmerDx Technology, newly applying it: LeptoX Proof-of-Principle

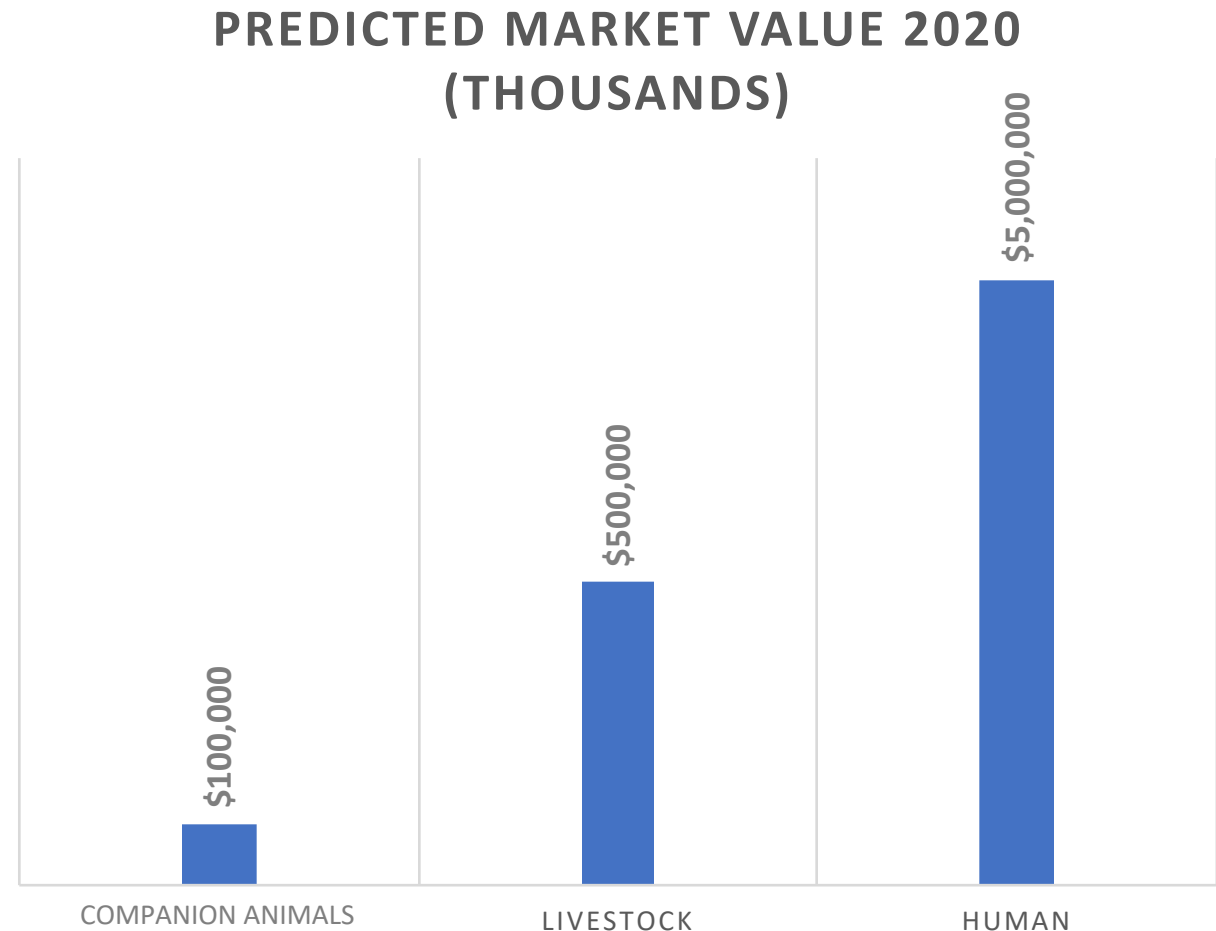


- New antigen discovery
- Uses novel immunochemical platform
- Develop ultrasensitive biosensors
- **Bottom line: we identify novel targets; from there, we make new diagnostics**



LeptoX: Initial focus; GlimmerX expanded scope

Scalable glycoconjugate platform with potential to capture **not only** HUMAN and ANIMAL segments for leptospirosis (LeptoX) but **will be applied** to vast new markets → **SEPSIS, UTI, MENINGITIS, ANTIBIOTIC RESISTANT BACTERIA (GlimmerX)**





Our Offering vs. Competition

Company	Diagnostic Method	Processing Time	Breadth of Diseases	Reliable Results	Affordable	Easy to Do
GlimmerX/ LeptoX	<u>Antigen</u> detection	15 minutes	✓	✓	✓	✓
ARUP	Molecular diagnosis (home-brewed)	~1-5 days	✗	?	✗	✗
PanBio, MRL Dx, Linnodee	<u>Antibody</u> detection (ELISA, latex agglutination, hemagglutination)	1-6 weeks	✗	✗	✓	✓
Hospital labs	Culture	2-3 months	✗	✗	✓	✗

Blavatnik Funds will enable GlimmerX



YEAR 1

- **Pilot \$100,000**
 - Lepto: diagnostics prototypes
ELISA; POC device
 - Pilot testing in animals
- **Full \$300,000**
 - Above plus
 - UTI , drug-resistant bacteria:
diagnostics prototypes
 - *In vitro* testing
 - Pilot animal testing

YEAR 2 – 3

- **New**, nondilutive funding; early stage investment
- Create SOPs/protocols to enable pilot cGMP
Diagnostic device/platforms scale up
 - For clinical testing in endemic sites
 - Licensing partners for
manufacture/distribution

YEAR 4 – 5

- Early stage investment
- cGMP production
- Preclinical testing begins
- Veterinary trial testing
- Prepare for IND/Phase I human clinical trials

Thank You!



Questions?

Contact

Joe Vinetz, M.D.

joseph.vinetz@yale.edu

(858) 945-7550

Carla Devillers, M.B.A.

carladevillers@gmail.com

(917) 545-7262