

Platform technology to modulate inflammation quickly at home using a wearable ultrasound device





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### Patient journey

Global burden

100,000

Kidney transplants every year



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Standard of care

З-6мо

Frequency of post-transplant health checks



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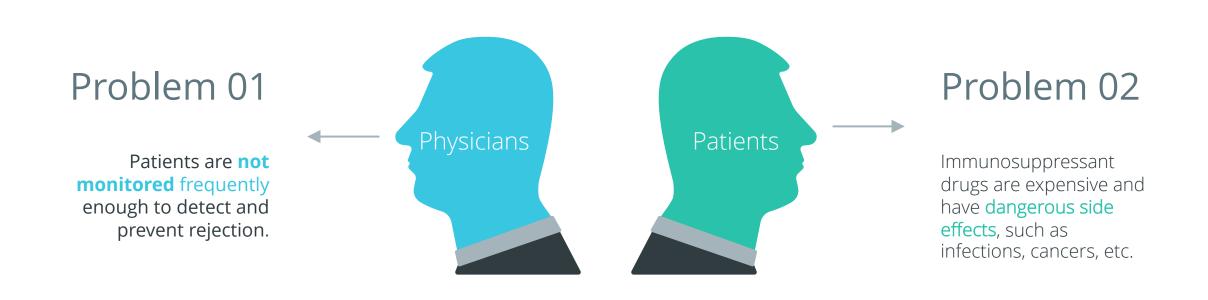
Problem

30%

Risk of rejection



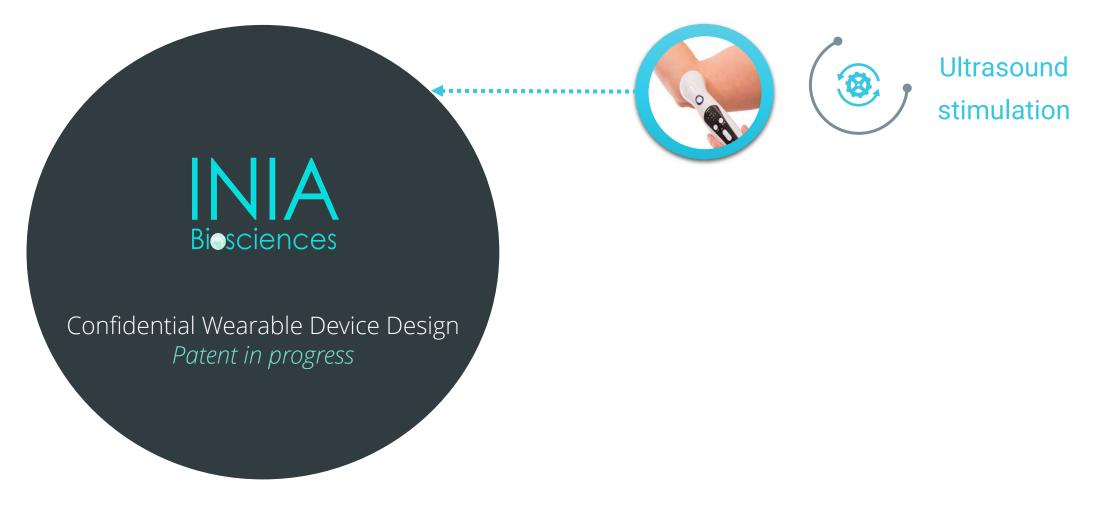
### Problem



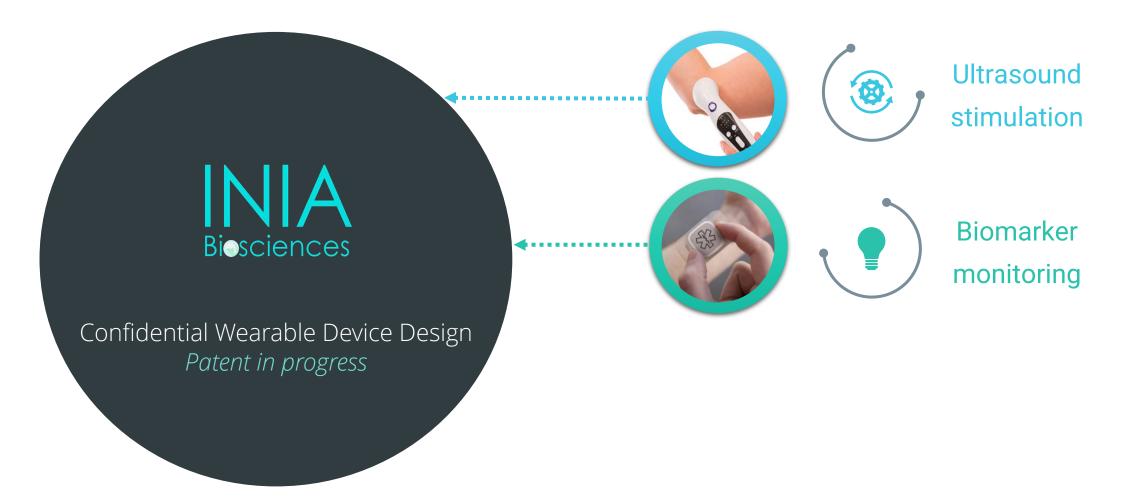




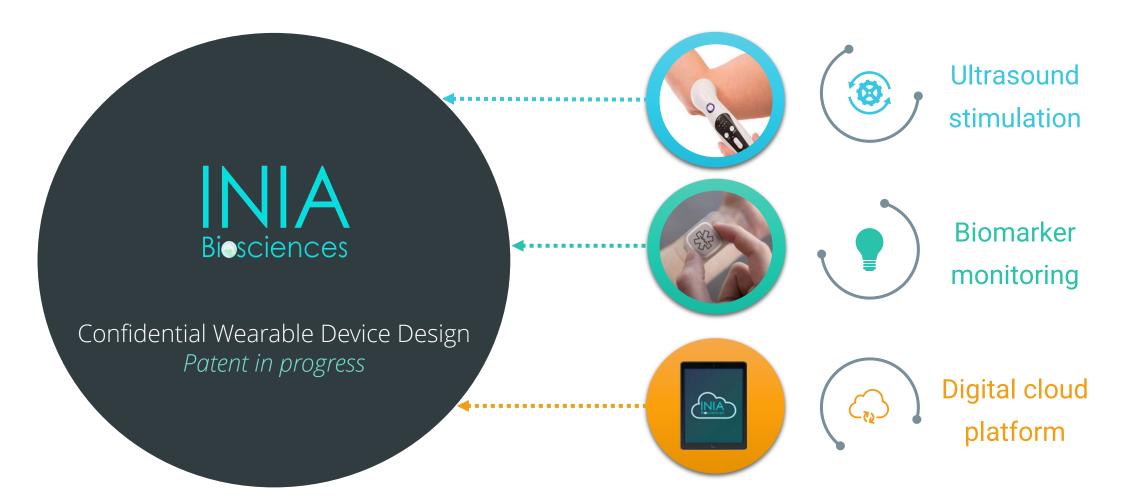














#### Scientific Rationale

Ultrasound stimulation to reduce cytokines

#### Human

0

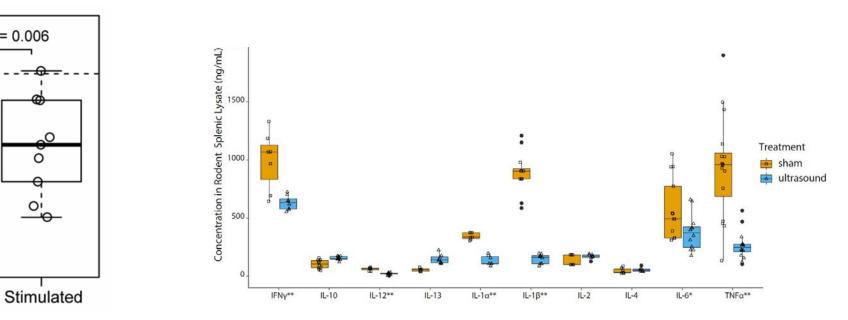
Control

p-value = 0.006

0,

0

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Mouse model

Graham, R.S. et al. medRxiv 2020

TNF Response (Log<sub>2</sub> Fold Change)

2

0

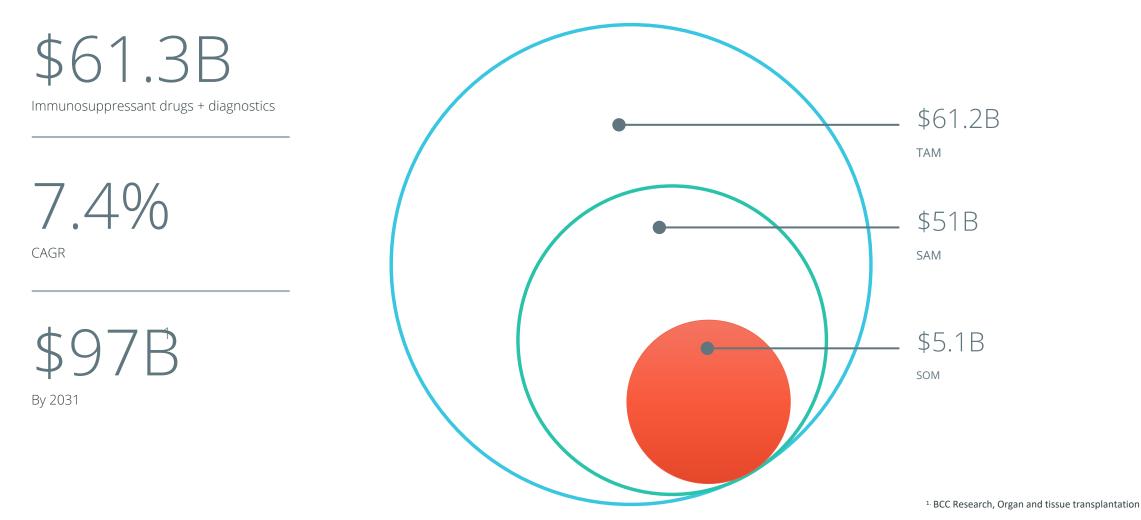
2-12

4.

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#### Market size



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### Competitors





### Competitive advantage



Non-invasive treatment

No risk for over-suppression Easy and fast use at home



Real-time monitoring

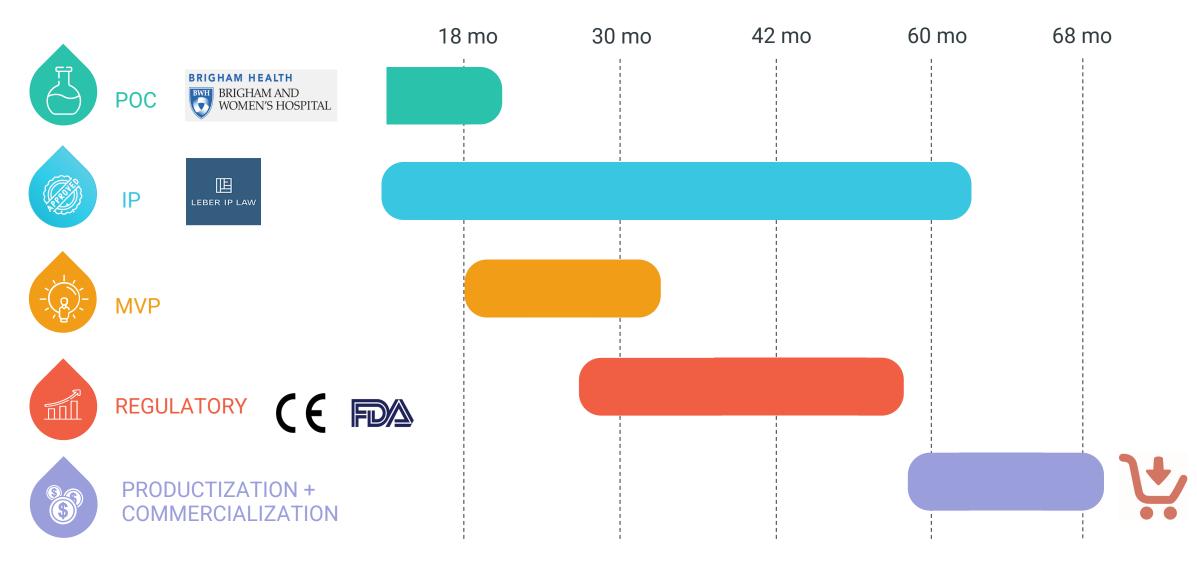
Immediate read-out Automatically goes to the cloud

Digital health platform

Communication with doctors Saves everyone time

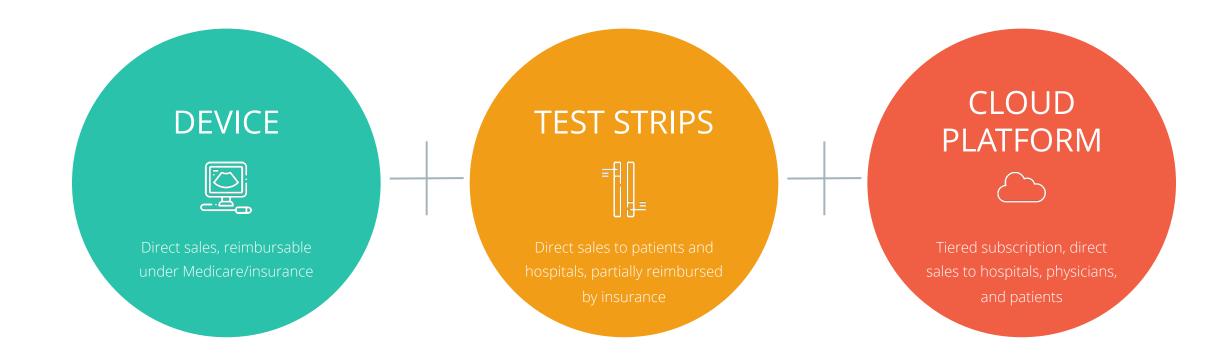


# Roadmap

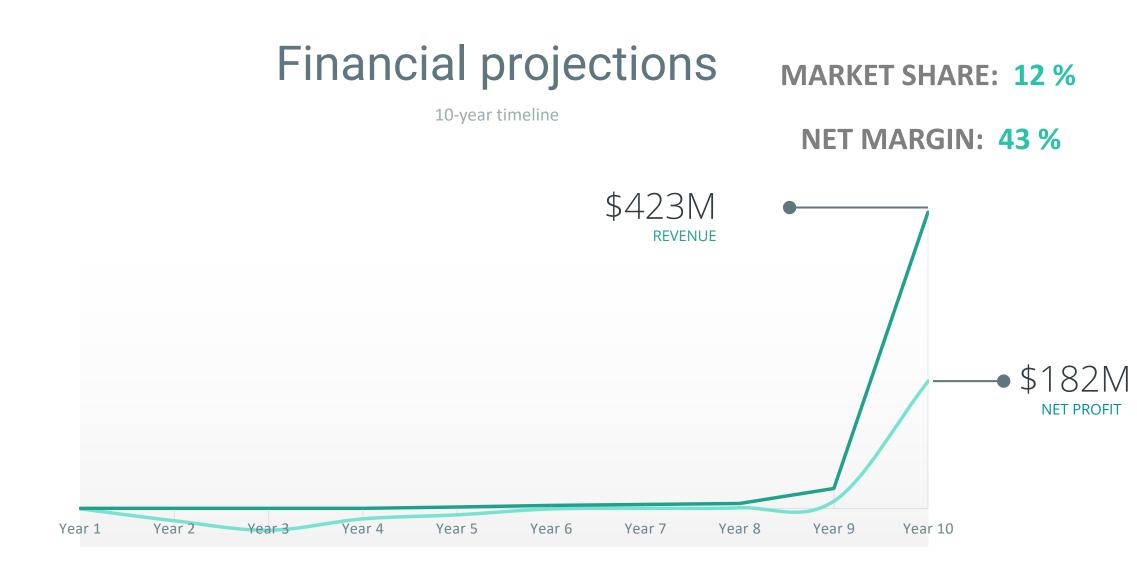


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#### **Business model**

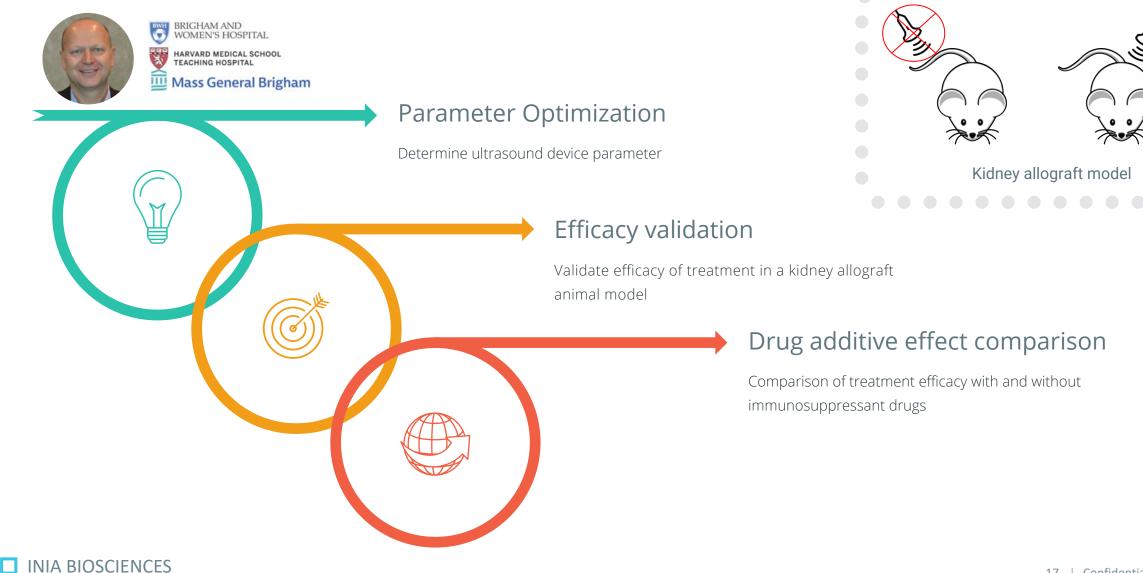








# Proof of concept



### Team



#### SHEN NING CEO

Shen graduate from Cornell University in 2015 is a MD/PhD with expertise in Alzheimer's disease (Tanzi lab, MGH/HMS), neurostimulation, and drug delivery (Langer Lab). She is also a Fulbright Fellow, MIT IMPACT Fellow, and BUnano Cross-disciplinary Fellow.





#### PABLO ELVIRA CSO

Pablo holds a B.S. in Chemistry and Biological Chemistry from The University of Chicago. He is currently a PhD candidate at the Department of Chemistry at Stanford University and holds several awards including the NIH predoctoral fellowship, the ChEM-H Chemistry-Biology Interface Fellow and the Center for Molecular Analysis and Design Fellow.







#### DRAGANA SAVIC, MSc, DPhil, MBA CTO

Dragana is a Fellow at University of Oxford leading metabolic research and has a DPhil in physiology. She is a trained biomedical engineer from the Technical University of Denmark and Yale University and was a lead specialist in the departmental implementation and FDA approval of a human scanner at UCSF.



# Advisory Team



Stefan Tullius, MD, PhD

Chair in Transplantation Surgery Brigham and Women's Hospital Harvard Medical School



BRIGHAM HEALTH BRIGHAM AND WOMEN'S HOSPITAL

Jean Francis, MD

Nephrologist

Boston Medical Center

Brigham and Women's Hospital

BRIGHAM HEALTH BRIGHAM AND WOMEN'S HOSPITAL



Paul Wilks, LLB, EMBA Partner at Osney Capital

OSNEY CAPITAL



Damion Corrigan, PhD Professor of Biomedical Engineering





Arun Sridhar, PhD Stealth Bioelectronics, Galvani

GALVANI



Vinit Nijhawan Managing Partner MassVentures

MASSVENTURES



# **Our Mission**

Platform technology to modulate inflammation quickly at home using a wearable ultrasound device.

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linkedin.com/company/inia-biosciences

Inia is a genus of river dolphins that utilizes biosonar.