OptoVibronex: Executive Summary

Unmet Market Need

- Current procedures diagnosing & treating skin cancer are invasive, time-consuming, imprecise and inefficient
 - o Initial diagnoses performed visually
 - o Biopsy results can take hours to days to obtain
 - Subsequent Mohs Surgery can take as many as 8 cuts and 4 to 8 hours to diagnose and remove tumors
 - o Dermoscopes lack accurate depth measurement

• No method to determine exact skin lesion margin

- Excisions are performed in stages until the area is deemed tumor-free
- Unnecessary scarring/removal of healthy tissue
- o Potential for incomplete removal of tumor
- <u>6-12 months' wait time</u> for a patient to get an appointment with a dermatologist
 - o Economic benefit in freeing up surgeons' time

Market Opportunity

- Initial market: dermatology / Mohs surgeons
 - o Mohs Surgeries increased 469% from '96-'13
 - o Number of Mohs surgeons increased 600% in 10 years
 - o Reimbursable: code-0470T and -0471T
 - o Market potential:
 - 10,000 dermatologists currently in the US
 - 5.9M Medicare reimbursed skin biopsies in the US in '15
 - \$8.1B in estimated annual cost of treating skin cancer
 - Our team has expertise and access to KOLs in dermatology
 - We see pathway to \$25M-\$50M in recurring sales

• Platform technology

- Technology can be used in other therapeutic and surgical procedures on both surface and internal tissues, including cosmetic surgeries and others.
- It can also be used for industrial applications or biofilm-caused infection identification

"THE ASK"

- We are looking for a **seasoned executive**:
 - To lead commercialization efforts, including refining market direction & strategy
 - o Coordinate relevant regulatory approval efforts
 - o Help raise dilutive and non-dilutive capital
 - Long-term: find partnerships/sub-licensing opportunities for non-dermatology-related fields of use
- We also welcome partnerships with clinicians and industry participants with deep, relevant knowledge

Our Solution







Near Infrared Light (OCT 3D Imaging)

Traverse Audible Sound (Stiffness)

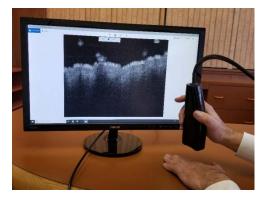
VOCT Virtual Biopsy

(Vibrational Optical Coherence Tomography)

- Accurately define skin lesion margins
- Instantaneous imagery: a virtual biopsy can be performed in 15 minutes
- Measures biomechanical characteristics in 3D
 - Non-invasive and non-destructive

Current State of Technology

- Nationalized PCT patent granted July 2019
 - Covers systems and methods (US)
 - o Also filed in EU
- o Multiple publications in leading journals
- Validated market need via Rutgers I-Corps Program and MD Anderson Cancer Center Regional I-Corps program
- o Developed and Tested Commercial VOCT
- Co-Founders collectively invested ~\$100,000 to-date into the technology.



Current Team

- Co-Founder: Fred Silver, PhD
 - Professor of Pathology at Robert Wood Johnson Medical School, Rutgers University
- Co-Founder: Lisa Lutz Silver
 - o Former Sales Executive at IBM
- Medical Advisor and KOL: <u>Dom Benedetto, M.D.</u>
 - o Ophthalmologist for 35 years