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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health



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

Company Profile

Industry Sector: Medical Device

Company Overview:

Artann Laboratories (Artann) is innovative technology company. Artann is a recipient of over 30 grant and contract awards from NIH, NASA and DOD. Artann is named as number 1 in "Top Ten New Jersey NIH SBIR/STTR Awardees from FY2003 to FY2008". A unique feature of Artann is a wide scope of its activities. Addressing solicitations from different federal agencies, Artann developed numerous technologies in the diverse fields of medical diagnostics, biosensors and biotechnology, nondestructive testing, various technologies for industrial, aerospace and military applications. Artann has built a solid intellectual property foundation for its technologies with 41 issued and pending US patents. Further, the company has established a sound record of bringing new technologies from the level of an academic idea into the stage of functional prototypes ready for commercialization. To date, Artann licensed five proprietary technologies to private and public companies to carry out the commercialization of its products

Target Market(s): Clinical, research, industrial

Key Value Drivers

Technology*: **Bone UltraSonic Scanner™ (BUSS)** is a novel diagnostic tool for screening and monitoring of osteoporosis through multiparametric assessment of bone mechanical and structural characteristics. In addition to osteoporosis, this technology could be used in diagnosis and monitoring a variety of other skeletal conditions, including pediatric bone growth monitoring and drug-induced bone deterioration. Other fields of BUSS applications include assessment of bone health in sports medicine, monitoring condition of skeletal system of astronauts during long-term space missions, and veterinary medicine.

Competitive Advantage: The fundamental difference between BUSS technology and existing ultrasonometers lies in its simultaneous use of various modes of ultrasonic waves in a wide frequency range; scanning mode examination and multiparametric characterization of bone conditions. Preliminary studies have shown that the innovations implemented in our devices drastically increase diagnostic capabilities in ultrasonic assessment of bone health when compared to conventional bone ultrasonometers.

Plan & Strategy: Seeking private equity and/or strategic partner.

*Technology funded by the NIA and being commercialized under the NIH-CAP

Management

Leadership:

Dr. Nouné Sarvazyán (PhD, MBA), CEO of Artann, experienced entrepreneur with a track record of successful technologies commercialization

Dr. Armen Sarvazyán (PhD, DSc), CSO of Artann, Adjunct Professor of Surgery UMDNJ, inventor, pioneer of medical ultrasound

Dr. Louis Korman (MD), Artann Chief Medical Advisor, Professor, practicing clinician, leading scientist and educator in GI and metabolic diseases

Scientific Advisory Board:

Dr. Vladimir Egorov (PhD), VP Technology Development of Artann, extensive experience in biomedical instrumentation design and development

Dr. Alexey Tatarinov (PhD), senior research scientist at Artann; extensive experience in ultrasound, design and validation of diagnostic apparatuses

Dr. Shreyasee Amin (MD), Associate Professor at Mayo Clinic, established clinician and practitioner in the area of osteoporosis

Dr. Sundeep Khosla (MD), Professor at Mayo Clinic, recognized thought leader in pathophysiology of bone loss in women and men

Product Pipeline

ON THE MARKET

- **SureTouch™** Tactile Imager for breast cancer screening
- **TissueElastometer™**
- Tissue Mimicking Phantoms

IN DEVELOPMENT

- Prostate Mechanical Imager **ProUroScan™** – FDA validation study
- Shear Wave Elasticity Imaging **Aixplore™** - FDA validation study
- Bone Ultrasonometry – FDA validation study
- Colonoscope Force Monitor – FDA validation study
- Skin Elasticity Analyzer – clinical verification
- Muscle Water Content Monitor – clinical verification
- Droplet Micro-Chromatography – clinical verification
- Endotracheal Tube Monitor – animal study
- MR Elastography with Time-Reversal Acoustics – lab validation
- HIV Detection Device – partnership
- Temperature Profile Spectroscopy – partnership
- Ultrasonic Analyzer for Biomolecular Thermodynamics - partnership

