



NanoBioMagnetics, Inc. at a glance

Business Focus

NanoBioMagnetics, a nanobiomaterials company, is pioneering an emerging area of nanomedicine referred to as Organ-Assisting-Devices (OAD), in which proprietary electromagnetic methodology is employed to externally vector/position magnetically responsive nanoparticles (MNP) to perform specific functions in human health applications.

Platform Technologies include:

- *Designed nanofabrication technology*
- *Biostable Implants: Stimulate/drive tissue*
- *Drug Delivery: Site-specific delivery*

Technical Objectives

Vectored Therapeutics: MNP are used as vehicles for site-specific treatment of a range of human health diseases:

- *Chemotherapeutics*
- *Inner Ear Sensory Cell Regeneration*

Biostable Implant Devices: Implanted MNP stimulate or drive movement of organs/tissue.

- *Hearing amplification (middle ear)
(NIH SBIR Award)*
- *Sphincter muscles (bladder control)*

Business Development

Commercialization: Now seeking a joint development partner for incorporation of OAD technology for hearing amplification.

Collaborations:

- *UT MD Anderson Cancer Center*
- *University of Oklahoma (OUHSC)*
- *Mass. Eye & Ear Infirmary (Harvard Med Sch)*

Financial:

- *Angel rounds*
- *SBIR Award*
- *State venture seed funds*

Background

Oklahoma Corp founded June 2001 by:

- *Charles Seeney (MS): Polymer Scientist and Founder of Nano-Source Tech venture whose IP recently acquired by DuPont Corp.*

Management Team and Technical Collaborations (multidisciplinary) in place or being assembled. Science team includes collaborators from MIT, MD Anderson, Mass. Eye and Ear Infirmary, and other noted institutions.

Intellectual Property

NBMI's proprietary OAD technologies are being protected through:

Seven US Patents Pending:

- *Nanofabrication methods of MNP and applications in Human Health.*
- *MNP for Gene Delivery to the inner ear.*
- *MNP for Amplification of Sound through Vibration of Ossicular Chain.*
- *Delivery of Chemotherapeutics*

Patentability and IP Space:

- *IP Space Assessment completed by Finnegan & Henderson (Washington, DC)*
- *TechnoMarket Assessment completed by TCI, a global market intelligence firm.*

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