Key Value Drivers

Technology:
MicroProbes for Life Science has developed high-precision microfabrication techniques for neural microelectrodes and advanced communication interfaces. This facilitates the efficient customization of probe sets made with precious metal raw materials, including platinum and iridium, while improving accuracy and reliability. The result is a user-defined product designed to satisfy the protocols of any application.

Our next-generation microelectrode arrays, which we are developing in collaboration with Sigencis, Inc. and the Illinois Institute of Technology, will offer investigators advanced capabilities for wired and wireless neural communication.

Competitive Advantages:
Credibility: Extensive global list of satisfied customers
Longevity: Company leadership has over 35 years experience in this market
Innovation: SBIR grants from NIH for next-generation product development
Quality: ISO 9001:2008 certification, demonstrating an organizational commitment

Product Pipeline
Next-Generation Array Technology

Active Floating Microelectrode Array (AFMA): The AFMA incorporates ASIC (Application Specific Integrated Circuit) multiplexing technology, along with a head connector and a minimal 4-wire micro cable, for efficient bi-directional communication regardless of the required number of active channels.

Wireless Floating Microelectrode Array (WFMA): The WFMA is a completely implantable microelectrode device that can wirelessly transmit and receive data to and from external recording and stimulation systems.

In 2009, both technologies were featured in poster sessions at the 39th Annual Meeting of the Society for Neuroscience, the world's largest organization of scientists and physicians devoted to advancing understanding of the brain and nervous system.