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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:

Biotechnology

Company Overview:

LifeSensors develops and markets innovative SUMO and ubiquitin centric products for therapeutic, diagnostic and research markets. We partner with and provide services to companies and institutions with the aim of reducing the cost and improving the quality of protein production.

Target Market(s):

Pharmaceutical/Biopharmaceutical Research and Development
Biotherapeutics Manufacturing
Academic Research

Key Value Drivers

Technology*:

SUMO-based expression systems
Unique line of ubiquitin research tools

Competitive Advantage:

Sole provider of enhanced SUMO expression systems for yeast, insect, and mammalian systems
Novel ubiquitin tools currently in development
Custom protein production

Plan & Strategy:

Continue to develop and introduce new, more efficient SUMO expression systems, ubiquitin research tools, and expand custom protein service.

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

Management

Leadership:

Tauseef R. Butt, Ph.D., CEO and Founder
Jeffrey O. Boily, COO
James E. Strickler, Ph.D., Vice President, Research and Development
Dattananda Chelur, Ph.D., Assist. Director, Molecular Biology

Product Pipeline

- New SUMO derivatives to enhance protein secretion and membrane protein expression
- Ubiquitin enzyme based microarrays for biomarker discovery in cancer, neurodegenerative diseases, arthritis among others
- Novel ubiquitin and ubiquitin-like protein derivatives for ubiquitome research
- New assays and substrates to support ubiquitin research