

CASE STUDY



Gene Gun Technology for Orance



The Possibility of New Vaccine Approaches

Nucleic acid vaccines hold the promise of being cost-effective with rapid development and stability in distribution. However, the challenge of introducing DNA into the patient's cells has slowed development growth. Orance's gene gun delivers a powdered vaccine containing select viral DNA sequences to the epidermal (skin) cells, increasing the immune response while minimizing potential side effects. This opens the possibility for new vaccine approaches.

Long-term Vision and a Range of Needs

Developing an effective, efficient, and easily-deployed gene gun delivery system is a key hurdle to commercialization. Previous methods have had difficulty moving from the lab to market, with some point-of-care efforts abandoned by big pharmaceutical companies. The Orance team understood what was needed to overcome these challenges but needed commercialization support.

Orance looked for a provider who was passionate about their long-term vision but could also cover their anticipated needs. Product Creation Studio came to the table to support architecture decisions, human factors considerations, custom lab instrumentation, and design for manufacture.

Development Progress

Product Creation Studio collaborated with Orance to create custom laboratory instrumentation, visionary concepts, and, most recently, functional prototypes to support clinical testing. This allowed Orance to progress its research, publish studies, and obtain additional grant funding.

"Product Creation Studio provided engaged, interdisciplinary resources that quickly zeroed in on immediate and long-term needs. They efficiently delivered solutions that allowed us to establish proof-of-concept and rapidly perform product screening and verification activities."

Get Started

Contact us to take your product from idea to reality today.

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