

# Project Name: Inhaled health products

Principal Investigator: Yuan Shuofeng

## Technology

- Advanced particle engineering techniques (spray drying, freeze drying, nano-agglomeration)
- Optimized formulations for respiratory delivery using design of experiments (DoE)
- Fine powders for convenient inhalation using handheld inhaler device, ensuring direct lung delivery of active ingredients for respiratory health

## Stage of Development

- Completed initial formulation and efficacy studies of inhaled probiotics
- Currently preparing for clinical trials
- Seeking partnerships for further development and regulatory compliance

## Key Advantages

- Natural formulations: Incorporates probiotics, vitamins, herbal extracts, etc.
- Enhanced bioavailability: Minimizes degradation in the digestive system
- Low regulatory barriers: Faster approval processes compared to pharmaceuticals
- Market demand: Increasing consumer interest in respiratory health solutions
- Scalability: Manufacturing processes can be scaled to meet market needs

## Opportunities

- Collaborations with healthcare providers and institutions for clinical integration
- Expansion into consumer health markets and online platforms
- Increased awareness of respiratory health post-pandemic, driving demand



## Intellectual Property

- USPTO Application # 63/498,919
- Chinese Patent Application:
  - CN 118845721 A
  - CN 118695855 A

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