



GeneFerm Biotechnology Co., Ltd.(1796)

# Investor Conference

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**Company Profile**



**Operational Overview**



**Precision fermentation**



**ESG**

# Company Profile

**Date of establishment:** July 17, 1999

**Share capital:** 414,598 NTD

**Chairman of the board:** Grace Chang

**Number of employees:** 288

**Production base:**

**Southern Taiwan Science Park:**

**Plant I :** No.3, Dali 2nd Rd., Shanhua Dist.,

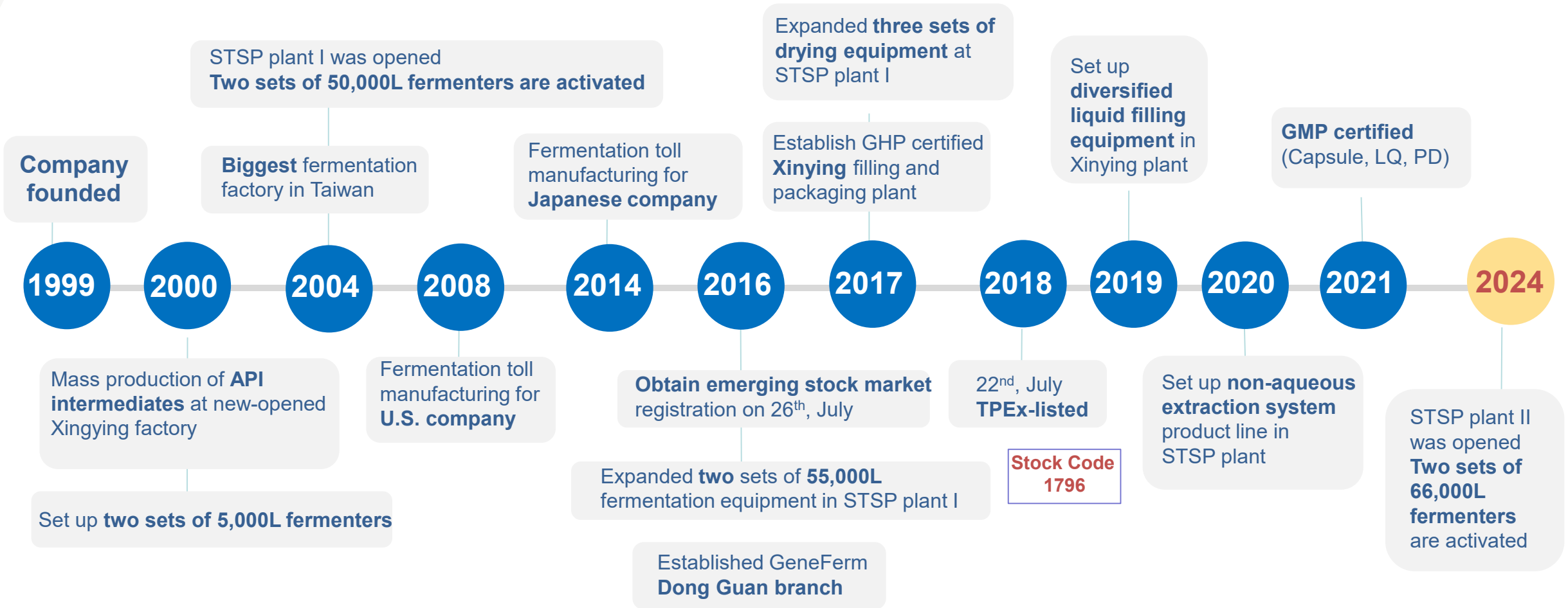
**Plant II:** Tainan City, Taiwan

**Xinying Factory:** No.33, Xingong Rd., Xinying District, Tainan City, Taiwan

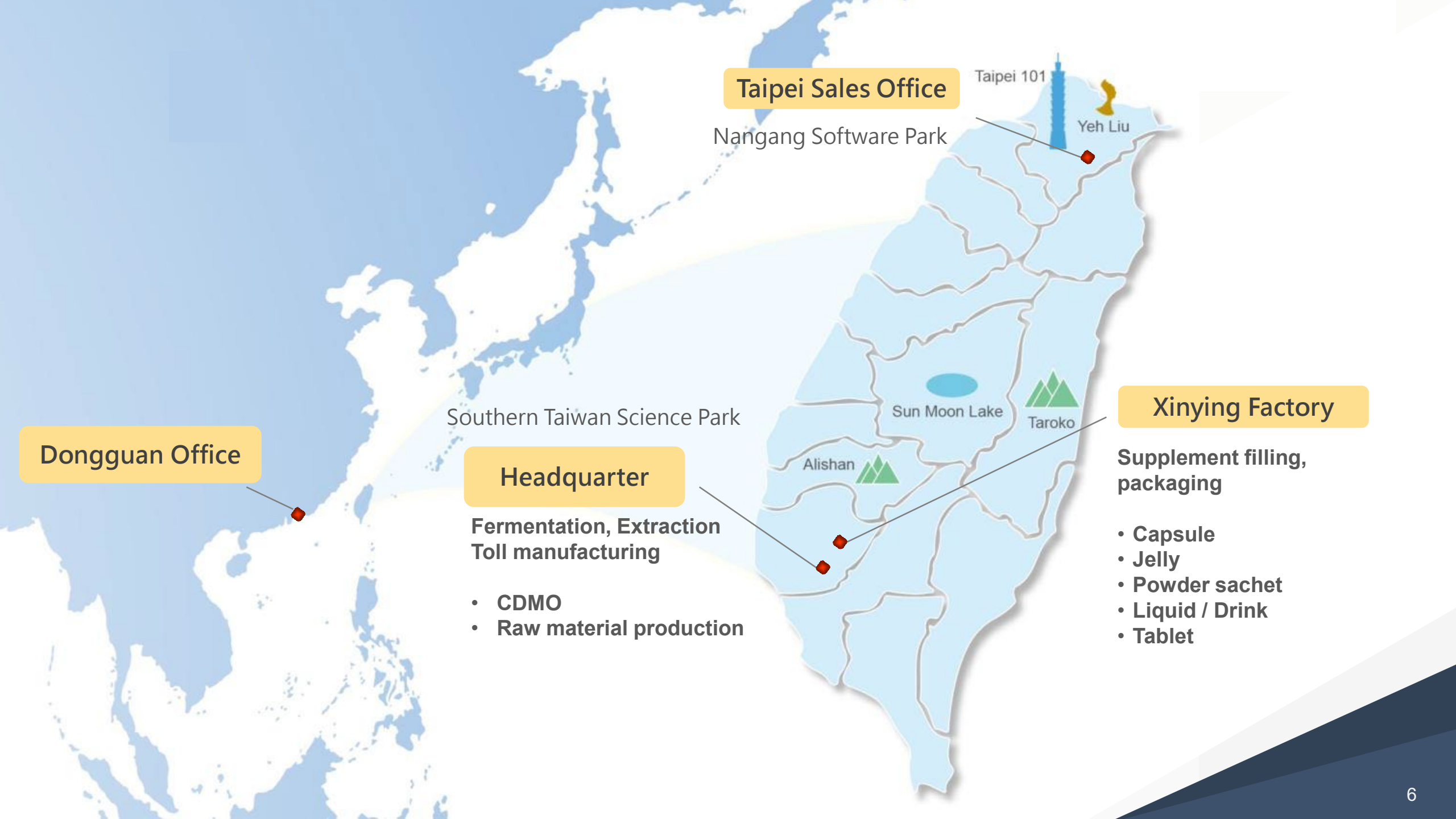
**Main business:**

Application of biotechnology in food, branded products and professional fermentation integration services (R&D, production and sales)

# Company History







## Taipei Sales Office

Nangang Software Park

Taipei 101

Yeh Liu

## Dongguan Office

Southern Taiwan Science Park

## Headquarter

**Fermentation, Extraction  
Toll manufacturing**

- CDMO
- Raw material production

Sun Moon Lake

Alishan

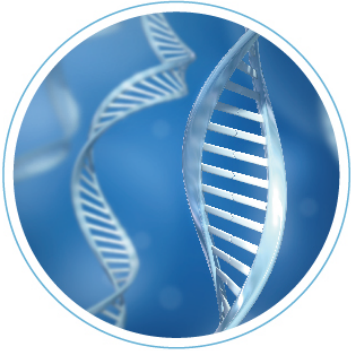
Taroko

## Xinying Factory

**Supplement filling,  
packaging**

- Capsule
- Jelly
- Powder sachet
- Liquid / Drink
- Tablet

# Core Technology



## R & D Research

- Microbial database preservation
- Functional product design
- Natural substance exploration



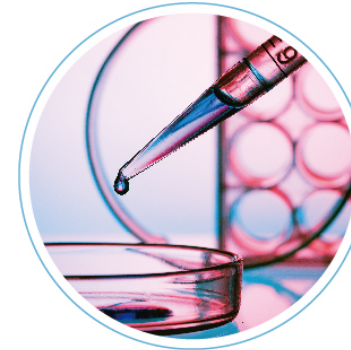
## Growth Optimization

- Screening of optimal strains
- Media Composition
- Optimizing Growth Parameters



## Production

- 66-ton scale fermentation mass production
- 66-ton scale extraction and purification mass production
- Quality monitoring system



## Process development

- Culture process conversion
- Fermentation process scale-up design
- Extraction and purification process design

# Operating projects

**International  
Professional  
Fermentation CDMO**

**Health food  
raw materials**

**GeneFerm private  
label products**

**OEM/ODM services  
for functional dietary  
supplements**





# STSP Plant I - Biomass Fermentation

Fermentation Equipment	Specification	Extraction and concentration equipment	Quantity
Liquid-State Fermenter	50-55,000 L	Extractor	50,000 L
	<b>Total : 240,000 L</b>	Extraction condenser tank	200-15,000 L
Solid-State Fermenter	1,500 L	Continuous Vacuum Evaporator (1,000 L / hr)	1
Medium Preparation Tank	15,000 L	<b>Solid-liquid separation equipment</b>	
Substrate Feeding Tank	2,000-16,000 L	Continuous Disk Stack Centrifuge	Auto-Cleaning Membrane Filter Press (Filtration area 36 m <sup>2</sup> /100 m <sup>2</sup> )
Acid-Base/ Anti-Foaming Tank	500 L	Vertical Scraper Peel Discharge Continuous Centrifuge	Ceramic Membrane Filtration Set (Filtration area 18 m <sup>2</sup> )



**HACCP**



**FSSC22000**



**USA FDA**



**HALAL**



50,000公升液態發酵槽



1,500 L Solid-State Fermenter



500 L Liquid-State Fermenter



DiskStackCentrifuge



Auto-Cleaning Membrane Filter Press



Vertical Scraper Peel  
Discharge Centrifuge



Crystallizer Tank



Extractor

# STSP Plant II - Precision Fermentation

Fermentation equipment	Specification
Liquid-State Fermenter	80-66,000 L
	Total : 158,720 L
Medium Preparation Tank	16,000 L
Substrate Feeding Tank	1,500-18,000 L

Extraction and concentration equipment	Specification
Extractor	66,000 L
Extraction condenser tank	200-15,000 L

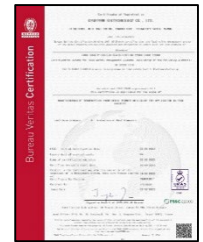
Solid-liquid separation equipment	
Continuous Disk Stack Centrifuge	Auto-Cleaning Membrane Filter Press (Filtration area 36 m <sup>2</sup> /100 m <sup>2</sup> )

Purification equipment	
Ultra-filtration Set (spiral membrane) (Filtration area 160 m <sup>2</sup> )	Low-Pressure Column Chromatography (600 L)

Drying equipment	
Freeze Dryer (2,000Kg / batch)	Spray Dryer (300L / hr)



HACCP



FSSC22000



USA FDA



HALAL



KOSHER





# Xinying Factory: One-stop OEM/ODM service



GMP



HACCP



FSSC 22000



## Multi-dosage form production line



# Patents and International Invention Awards

Advanced R&D Excellence Supported by Global Patents

Winner of Multiple Global Invention Awards





# Global-Scale Manufacturing & Worldwide Marketing

1,000+ Global Partners





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**Company Profile**



**Operational Overview**



**Precision fermentation**



**ESG**

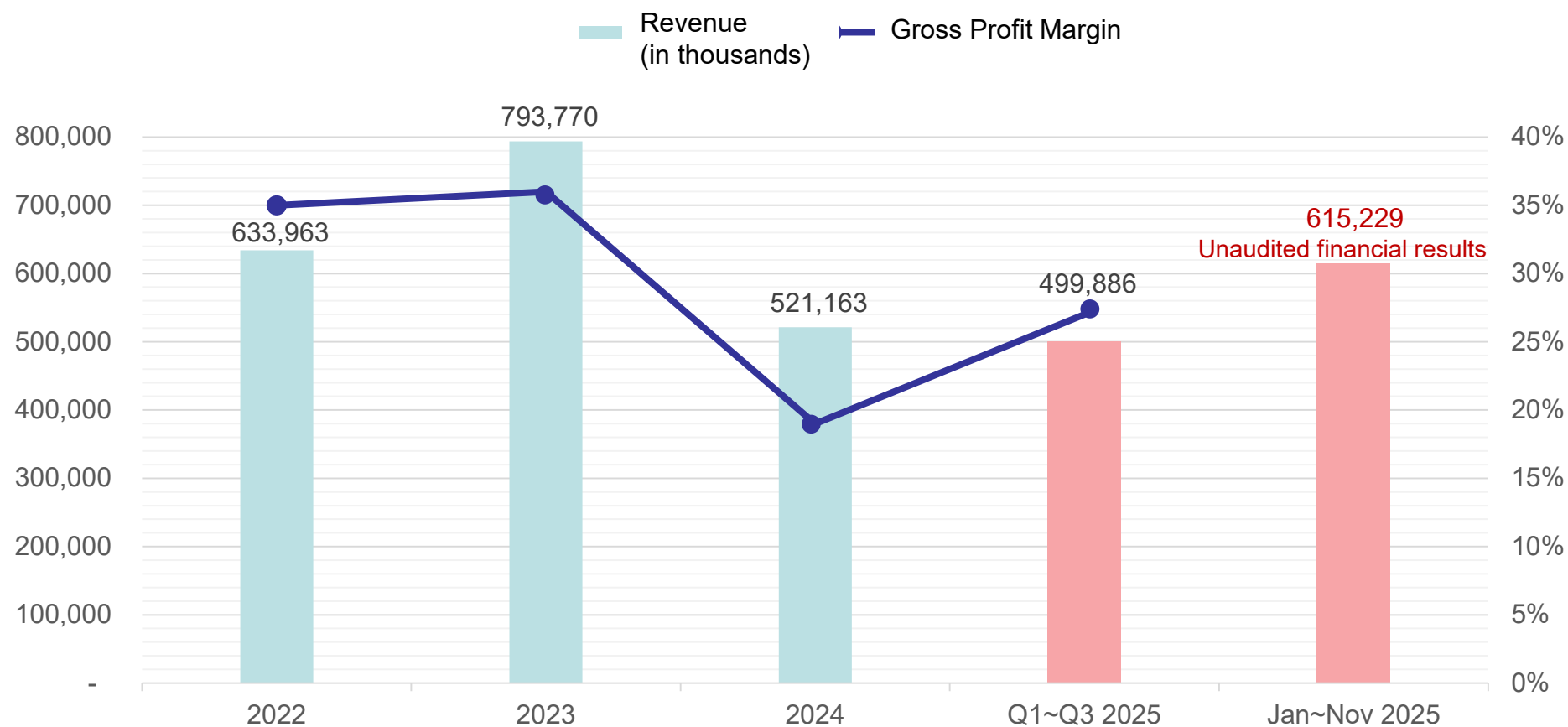
# Operational Overview

Comparison of the first three quarters of 2025/2024

Unit : Thousands of NTD

Project/Year	Q1~Q3_2025		Q1~Q3_2024		YoY
	Amount	%	Amount	%	
Revenue	499,886	100%	366,170	100%	36.5%
Gross profit	134,374	27%	67,894	18%	97.9%
Operating expenses	(107,144)	-22%	(96,220)	-26%	
Operating gain (loss)	27,230	5%	(28,326)	-8%	
Net non-operating income (expenses)	(11,747)	-2%	2,233	1%	
Gain (loss) before income tax	15,483	3%	(26,093)	-7%	
Income tax (expense) benefit	(2,463)	-1%	512	-	
Net income (loss)	13,020	2%	(25,581)	-7%	
Earnings (loss) per share	NT\$ 0.31		(NT\$ 0.62)		Returned to profitability

## Revenue and gross profit margin in the past three years and 2025



## Revenue Breakdown for the Past Three Years and 2025

Unit: NT\$1,000

Revenue Categories Annual	2022		2023		2024		Q1~Q3_2025	
	Amount	%	Amount	%	Amount	%	Amount	%
Health food revenue	467,604	74%	459,218	58%	417,039	80%	350,834	70%
<b>OEM revenue</b>	<b>165,021</b>	<b>26%</b>	<b>325,678</b>	<b>41%</b>	<b>102,827</b>	<b>20%</b>	<b>146,739</b>	<b>29%</b>
Other	1,338	-	8,874	1%	1,297	-	2,313	1%
Total	633,963	100%	793,770	100%	521,163	100%	499,886	100%

- ◆ Contract manufacturing revenue includes CDMO projects for precision fermentation and contract manufacturing of biotech food fermentation and extraction.
- ◆ Precision fermentation collaboration projects scheduled for 2025 have already begun shipping.



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**Precision fermentation**



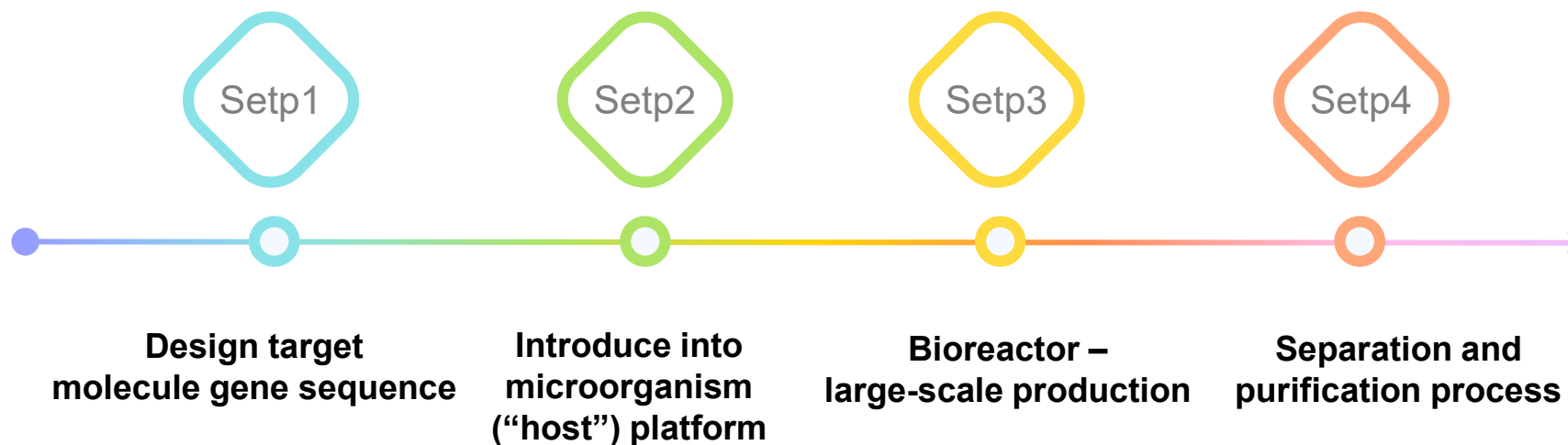
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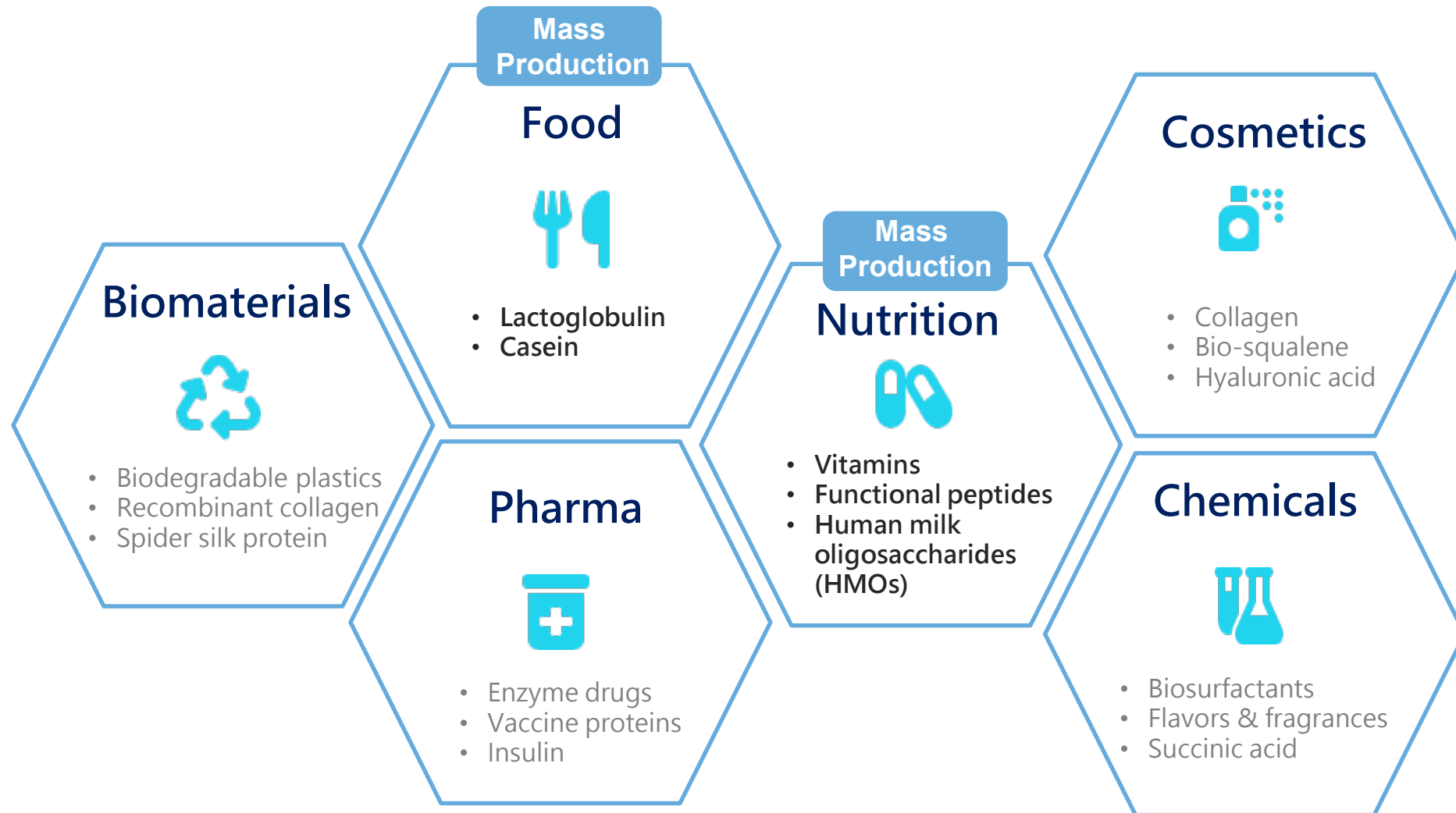
# Precision Fermentation

Using microorganisms such as yeast or bacteria, genetic engineering techniques are applied to enable them to produce the desired target molecules. These microorganisms are then massively cultured through fermentation, turning them into “micro-factories” for producing the target molecules.

- Highly controllable production of target molecules
- Does not rely on animals or arable land, resulting in low carbon emissions
- Capable of producing high-purity proteins or functional ingredients at scale
- Suitable for large-scale and commercial production



# Application Industry



# Global Market Size



**2024 Market Size  
(USD)**

**\$3-4B**

Food + Industrial Enzymes  
+ Biotechnology



**CAGR (Compound  
Annual Growth Rate)**

**10-15%**

Continued growth is  
expected until 2030.



**Projected size in  
2030 (USD)**

**\$8-10B**

Growth drivers:  
sustainability,  
de-animalization



# Core Advantages of GeneFerm Biotechnology



## Vertical Integrated Technology Platform

Pilot Verification → Fermentation Scale-Up → DSP  
High-Performance Purification  
Provides comprehensive solutions, enhancing product added value and gross margin.



## Economies of Scale & Asset Barriers

- Precision fermentation capacity up to 158,720 L
- Sufficient commercial-grade production capacity
- Combined with our technology platform, builds a strong competitive moat



## Global Market Access

- Multiple international certifications
- Applications cover alternative proteins, enzymes, carbohydrates, peptides, and other cross-industry processes
- Helps customers quickly access international markets



## Strategic Advantages

- Taiwan IP protection and cost advantages
- Precisely fulfills orders from Europe, the US, Japan, and the Middle East
- CDMO model creates stable and growing revenue streams



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Precision fermentation



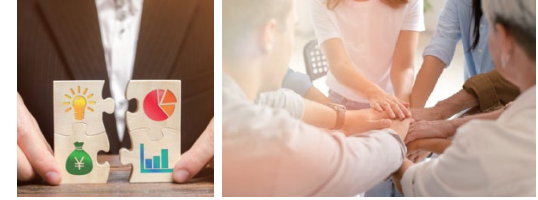
ESG



# Precision Fermentation – Sustainability Highlights



# 2024 Sustainability Report



## 1 Corporate Governance

- Board directors receive at least **6 hours of annual continuing education**.
- **Annual self-evaluation** of the Board of Directors and functional committees is conducted; every three years, an **external professional institution evaluates Board performance**.

## 2 Product Safety

- Complies with the Food Safety and Sanitation Management Act and international food safety management standards such as GHP, FAMI-QS, FSSC 22000, and HACCP, implementing robust food safety control mechanisms.
- Measures include food safety monitoring plans, raw material traceability management, and supplier evaluation, ensuring product quality and safety.

## 3 Environmental Protection

- Installed solar PV systems, with electricity sold back to the grid totaling 91,952 kWh in 2024.
- Energy-saving planning and regular maintenance of process equipment.
- Compliance with the Water Pollution Control Act and Waste Disposal Act, implementing environmental purification and water conservation measures.

# 2024 Sustainability Report

## 4 Health & Workplace

- Complies with **labor** regulations and supports **international human rights conventions**, safeguarding human rights and fostering a **fair and friendly work environment**.

## 5 Social Engagement

- We actively fulfill our **corporate social responsibility** and practice **corporate citizenship**. Through **systematic resource investment**, we focus on supporting **vulnerable groups** and **educational initiatives for children in remote areas**, aiming to create a **positive corporate impact**, promote **social inclusion**, and contribute to **sustainable development**.



# > Q&A

