

Transforming Gut Health for Longevity



OVERVIEW





LONGEVITY

Eradicates Chronic Illness for Good Empower Heathly Lifespan beyond 120 years

SPECIALIZING IN

At-home Diagnostics

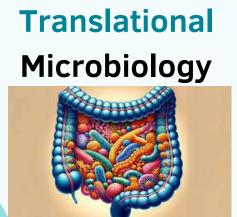




Precision Nutrition Microbiome Medicine



POWERED BY



Next-generation Sequencing



Artificial Intelligence



Rising Awareness of Gut Health Issues











Hong Kong Business

The University of Hong Kong (HKU)

HKU discovers gut microbiota and its metabolites as key factors for exercise efficacy in the prevention of diabetes



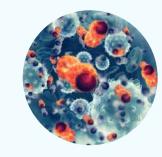
Take Probiotics with Caution as Some Efficacy Unproven 25 Samples Not Clearly Labelled Introduce Regulation to Protect Consumer Health

South China Morning Post

Hong Kong study identifies certain bacteria as risk factor for stomach cancer

Researchers from CU'HK faculty of med in Copy pathogen of gastric cancer, as it can kit at the





Cancers



Diabetes



Dementia

And more ...

CUHK identifies gut microbiome markers for autism spectrum disorder

Researchers discovered alterations in out microbes across archaea, bacteria, fundi and viruses.

12 Jul 2024



45%

of working adults in hong kong suffer from chronic diseases



IBS



Obesity



Eczema

And more ...

EXISTING PROBLEM & MARKET OPPORTUNITY



GLOBAL MICROBIOME MARKET

Market Size by 2030:

USD 11Bn

CAGR until 2030 +25%

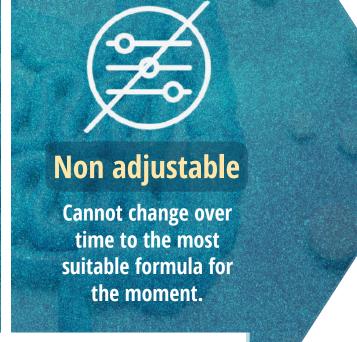
2030 \$11 Bn \$6.9 Bn 2028 **USD** \$3.5 Bn

2025

Currently, consumers mainly rely on 'one-size-fits-all' probiotics





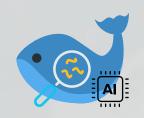


66 Everyone has a unique and constantly changing gut microbiota

Core Product - GUTolution Micrbiome Test Pro

Combines:





NGS Bioinformatics

GUTTY A.I. Analysis





Add on available:
Personalized Probiotics



Modelling the "Golden Standard" of each person's unique microbiome: (1) Personalized (2) No-trial-and-error (3) Low-cost

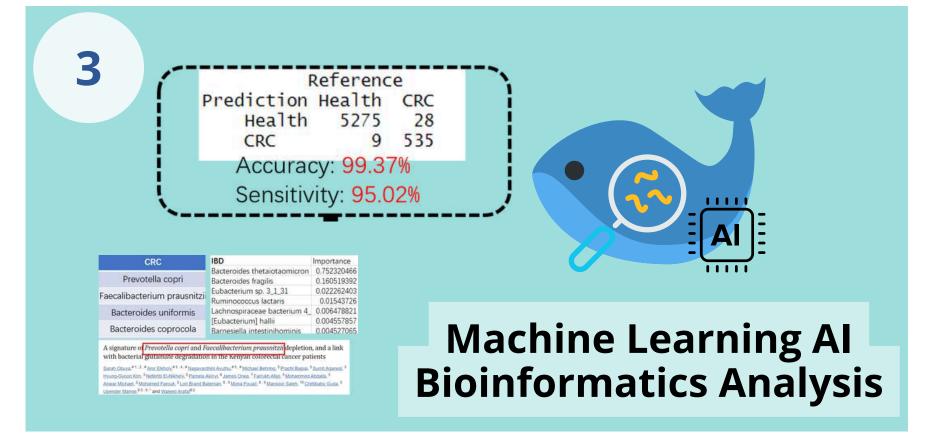
PRODUCT DISTINCTIVENESS

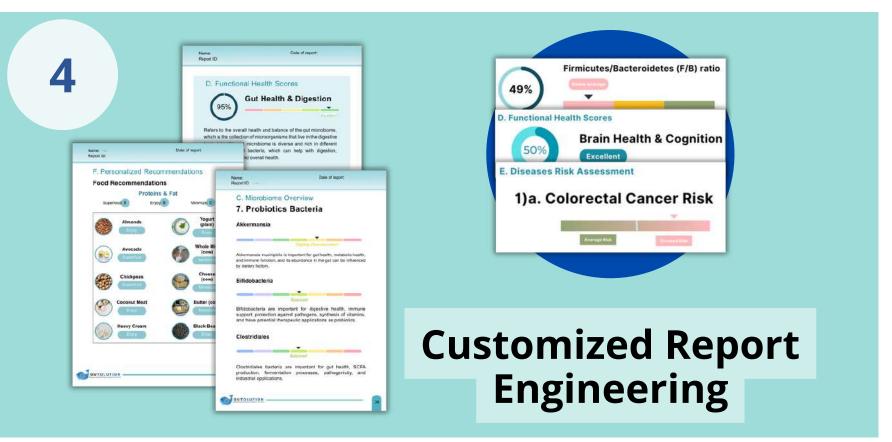
The only end-to-end NGS gut micrbiome testing in Hong Kong











Technology - Next-Generation Sequencing laboratory

The second company in Hong Kong with a Next-Generation Sequencing laboratory (located in Hong Kong Science Park), designed according to the American Accreditation Service (IAS) according to the ISO 15189 standard





















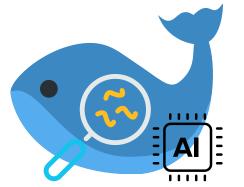


Illumina NextSeq 500 **Next Generation Sequencing**

Optimising the DNA extraction process with the **QIAcube Connect system**

Technology - Artificial Intelligence

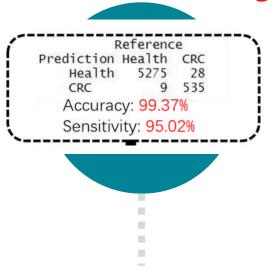




GUTTY* - GUTOLUTION'S AI

*PATENT PENDING TECHNOLOGY

Testing Sensitivity up to 95%



Method RMSE MAE

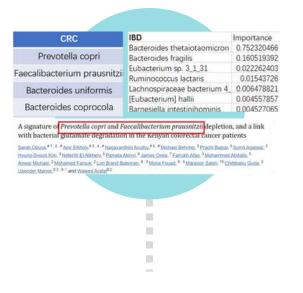
1 Lasso Regression 15.85590 12.673030

2 Ridge Regression 15.02933 13.199160

3 XGboost 10.68835 7.994981

4 lightGBM 11.02273 8.422291

5 VAE 12.32340 10.034520





Diseases Risk Assessment Model Microbiome Aging Clock Model

Biomarker Discovery Model

App-based Report in iOS & Android

Bioinformatics

Machine Learning

Software Engineering

*GBM, RF, LDA, Neural Network Algorithms

Al Modelling of the "Golden Standard" of each person's unique microbiome:

(1) Personalized (2) No-trial-and-error (3) Low-cost

TECHNOLOGY - CLINICAL RESERCH



Research partnership with top 1% scientist aiming for IF >20 Publication & FDA Listing

Two co-researches with three clinical professors of HKU

2 clinical trials focused on the effectiveness of GUTolution's new solutions on high-impact diseases

1 | MASLD

2 | IBS

- Phase I Clinical Efficacy Testing
- Phase II Research Publication (IF > 20)
- Phase III <u>Patent Application + FDA Listing</u>



Gurindar Vinner

Head of Scientific Research, GUTolution

PhD, Chemical Engineering MSc, Microbiology & Immunology

2 Securing

Securing Government Research Funding

HKD 10 millions



Project Sum supported **Government Funding Scheme**





LKS Faculty of Medicine The University of Hong Kong 香港大學李嘉誠醫學院

Three

Clinical Professord from HKU

as Principal Investigators of the R&D Projects

TRACTIONS & MILESTONES



FOUND IN Q1 2023

and our 1st Product launch within 8 months, since then:



>200%
Sales
Q2Q Growth



>30%
Repurchase
Rate



Customer **Satisfaction**

>80%



>HKD 3.5M
Investments
& Grants



>HKD 4.5M
Projected
Annual Sales











Recent Awards





Media Coverage

HEADLINE DAILY



疫情令大眾更關注腸道健康·透過微生態分析提供精準營養(precision nutrition)服務的香港生物 科技初創公司GUTolution,使用先進人工智能引擎分析人體腸道微生態,配合微生態專家及註冊營



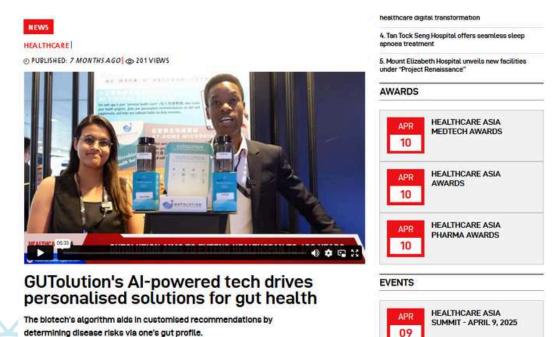
HKMA Global Innovative Rising Star Gold Award



etnet Health Partnership Awards 2024
Outstanding Al Gut Microbiome
Solution



HEALTHCARE ASIA



Health Concept



LEADING PARTNERS AROUND THE GLOBE















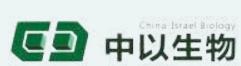












VITALLIFE

GENOMICS INNOVATION

BGI兴泰基因



香港醫務行政學院 Hong Kong College of Health Service Executives



2024 CAHK



















