ALAGA

3X-MyBIOME Intelligence Ecosystem

A New Standard in Precision Preventive Medicine

Next-Generation Microbiome Smart Wellness



Research Collaboration & Academic Achievements

Scientific Evidence & Trust: Collaborative Research and Publications

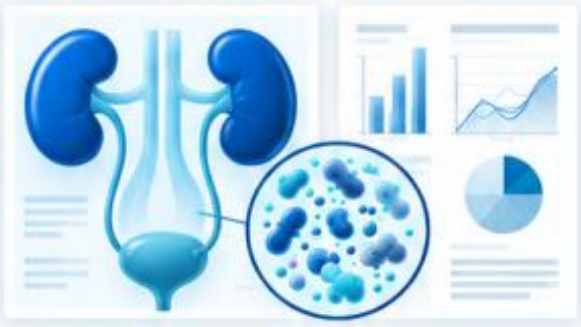
Building expertise through collaboration with research institutions, hospitals and companies, and through academic research.

Key Research Partners & Companies

- Korea Disease Control and Prevention Agency
- National Cancer Center
- Chong Kun Dang Bio
- LG Household & Health Care
- Ewha Womans University Hospital
- Seoul National University School of Dentistry

Selected Research Topics & Publications

01 Investigative and Clinical Urology



Male Urogenital Cancers

Urinary microbiome profiling research

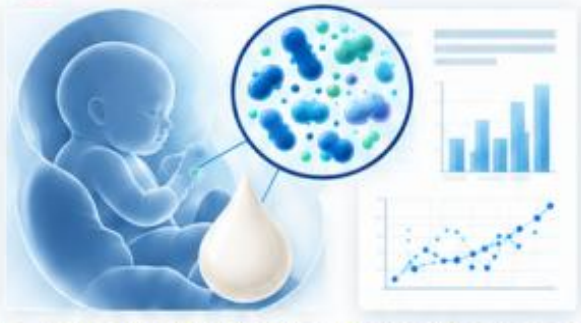
02 Scientific Reports



Vaginal Microbial Changes During Pregnancy

Research on characteristics associated with preterm birth

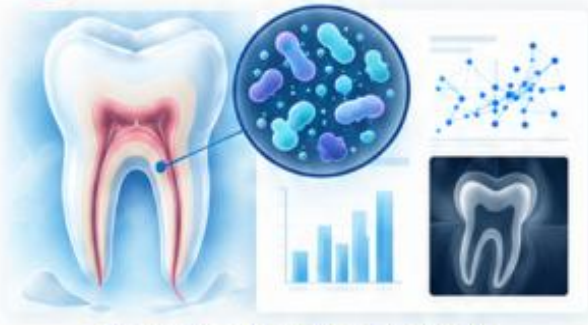
03 Scientific Reports



Lactobacillus Distribution During Pregnancy

Research on associations with normal delivery

04 Journal of Endodontics



Persistently Infected Teeth

Microbial biomarker research

Institutional Collaboration + Academic Research + Data Analysis to Build Expertise

NGS Analysis Process

3BIGS Precisely Analyzes the Microbiome with NGS Technology

From microbial DNA in your sample to community profiles and personalized health insights

4-Step Microbial Analysis Workflow

01 Microbial DNA Extraction

Extract microbial DNA from the sample and check its quality



02 Library Preparation

Prepare libraries for the target analysis, including 16S



03 NGS Sequencing & Analysis

Generate DNA sequences and compare them with databases to analyze microbial taxonomy and composition



04 Interpretation & Care

Interpret community composition, diversity and related indicators to guide care



Integrated Analysis Portfolio



3X-MyBIOME Gut

Gut Ecosystem · Digestive & Metabolic Health



3X-MyBIOME Oral

Oral Ecosystem · Oral Health



3X-MyBIOME Y

Vaginal Ecosystem · CST Classification

DNA Extraction › Library Preparation › Community Analysis › Personalized Care

3BIGS Strengths

Why Choose 3BIGS

Microbiome expertise connecting data, AI, NGS and research partnerships

01 Korean Population Database



Analysis using Korean microbiome data

Interpretation informed by lifestyle and population characteristics

02 AI-Powered Personalized Care



Personal health guidance integrating test and survey data

Tailored action plans and care solutions

03 NGS Microbiome Analysis



Analysis of microbial composition and diversity

Evidence-informed interpretation of results

04 Multi-Site Health Services



An integrated portfolio covering Gut, Oral and Y-Zone

Skin microbiome service in development

05 Research Partnerships



Collaboration through joint research and projects

KDCA, Chong Kun Dang Bio, Ewha Womans University Medical Center, and others

06 Global Data Expansion



Research and analytical data from the Americas, Europe and Asia

Supporting overseas markets and broader result interpretation

Korean Population Data + AI-Personalized Care
Multi-Site Analysis + Research Partnerships

Integrated Microbiome

The Microbiome: A Starting Point for Whole-Body Health

Our microbial ecosystems interact with immunity, metabolism, women's health and other body functions.

01 Oral Microbiome

Research on links between oral microbes, periodontal health and whole-body health

Dementia | Stroke | Cirrhosis | Diabetes

Associations do not indicate individual disease risk or causation.



02 Gut Microbiome

Close interactions between gut microbes, digestion, metabolism and immunity

Research on associations with obesity, diabetes, skin and digestive health

Digestion | Metabolism | Immunity



03 Y-Zone Microbiome

The vaginal microbial ecosystem changes across women's life stages

Interpret alongside vaginal, urogenital and pregnancy-related health information

Life Stages | Community Balance | Women's Health



Integrated Health Management Across Oral, Gut & Y-Zone Microbiomes

ALAGA At-Home Testing Journey

One-Stop Testing at Home or Work

From booking to results with the ALAGA mobile healthcare app

01 **Order a Package**
Book and pay in the app

02 **Kit Delivery**
Receive your test kit at home or work

03 **Easy 3-Minute Sampling**
Collect your sample and return it



ALAGA means care and nurturing

04 **Laboratory QC**
Check sample quality

05 **NGS Analysis**
Analyze microbial taxonomy and composition

06 **Smart Results**
View results and care guidance in the app

Order → Delivery → Self-Sampling → QC → NGS Analysis → Results

ALAGA Testing: Collaborating Research Institutions

Seoul National University
Yonsei University
Korea University
KAIST
POSTECH
UNIST

NGS Analysis Process | Four steps to scientific microbiome analysis

01 **DNA Extraction**
Extract microbial DNA from the sample

02 **Library Preparation**
Prepare DNA libraries

03 **Sequencing & Analysis**
Analyze DNA sequences and microbial taxonomy with NGS

04 **Interpretation & Care**
Provide personalized health guidance

ALAGA Test Portfolio | Key testing services at a glance

Gut Microbiome Test
Gut health supports whole-body health

Oral Microbiome Test
Oral health connects to whole-body health

Y Microbiome Test
Supporting immune balance and everyday wellness

Service Feature 1

ALAGA Mobile App & 7-Step Journey

An intuitive one-stop healthcare app built around care and nurturing



ALAGA

From Booking to Ongoing Care

7-Step End-to-End User Journey

1. Sign Up & Get Started
2. Book & Pay
3. 3-Minute Self-Sampling & Shipping — Ship
4. Laboratory Analysis
5. View Results
6. Personalized Care Solutions
7. Ongoing Longitudinal Management

6-Stage Real-Time Tracking

Reduce Support Workload

Target: 80% Fewer Support Requests

Order Complete → Kit Delivery → Complete Survey → Sample Collection → Laboratory Analysis → View Results

Track your test progress transparently in the app

Barcode-Based 1:1 Mapping

Scan the kit barcode to link the participant identification code

Improve Sample Identification Accuracy · Prevent Labeling Errors

Booking · Testing · Results · Care · Tracking in One App

Service Feature 2

Intuitive Reports & Detailed Screening Across 5 Health Domains

Simplify complex microbiome data and view health reference indicators at a glance

01 CST Classification

Visualize vaginal community types and representative beneficial bacteria



Classification Based on CST (Community State Types)

02 5 Health Domains · 18 Detailed Indicators

Good/Caution Dot Gauges by Domain

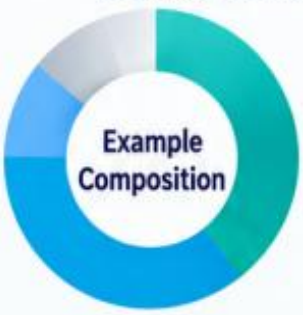
Good Caution

Basic Health	Information related to odor and itching	●●●○○
Vaginal Health	Microbial information related to vaginitis	●●●○○
Urogenital Health	Urinary and reproductive health references	●●●●○
Uterine Health	References for uterine health consultations	●●●●○
Pregnancy Health	References for pregnancy and reproductive health consultations	●●○○○

Example display; actual results vary.

03 Microbial Composition Donut Chart

Relative proportions (%) of the most abundant detected microbes



- Lactobacillus
- Prevotella
- Other

Relative abundance differs from absolute bacterial counts.



04 Detailed PDF for Clinical Consultations



48~50 Pages

Download the Full Report Instantly in the App

Use test results to support consultations and review care plans

Clear Summary + Detailed PDF to Support Understanding & Consultation

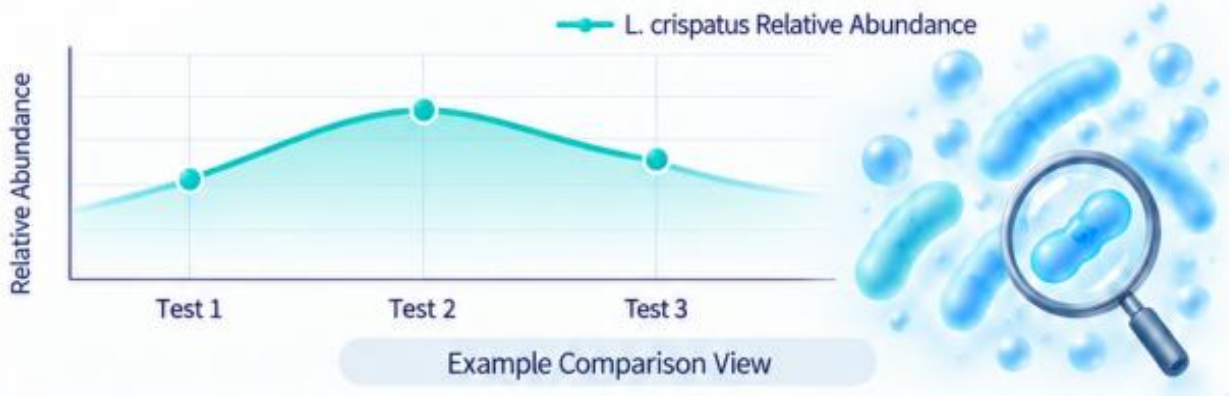
Service Feature 3

Longitudinal Tracking & Alaga AI Doctor

Track health changes through repeat testing and understand results through AI conversations.

01 Longitudinal Comparison

- CST Changes
- Beneficial Bacteria Trends
- Compare Past Results



Example Comparison View

02 Alaga AI Doctor

24/7 Conversational AI Results Guidance

- Test Date
- CST Results
- Detected Microbes



Personalized Guidance Linked to Your Latest Test Data

Understand Results · Explain Care Plans · Retesting Guidance

AI Summary

Clearly summarize indicators that changed since the previous test

Review Changes → Check Care Plans → Regular Retesting

Track Result Changes + Ask AI Questions Anytime

Personalized Care

Evidence-Based Personalized Solutions & Commerce Integration

Connect test results to actionable guidance and informed product choices



From Analysis to Action

Action Guidelines

Product Guide

01 Care Rule Engine

Analyze test values and survey data using 37 rules

TOP 3 Personalized Guidelines Without Duplication

Tests + Surveys → Apply Rules → Action Guidelines

02 Probiotic Guidance Based on Disclosed Ingredients & Strains

Transparent product information on strains, CFU and ingredients

L. rhamnosus GR-1

L. reuteri RC-14

Example strains; review individual circumstances and product information together



03 Lifestyle Curation

Linked to a library of 84 expert solutions

Daily Care

Sleep Management

Y-Zone Cleansing Habits



Tests & Surveys → TOP 3 Guidelines → Products & Lifestyle Care