

Mastering the Microbiome Market

A comprehensive strategic guide to navigating the fastest-growing sector in healthcare and wellness

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“Sabinsa is a responsible and reliable company.”



2023
**LIFE TIME
ACHIEVEMENT
AWARD**
INDIA



2021
**FATHER OF INDIAN
NUTRACEUTICALS
INDUSTRY**
INDIA



2018
**NUTRA
CHAMPION**
EUROPE



2016
**HALL OF
LEGENDS**
USA



2022
**LEGEND OF THE
MILLENNIUM IN
NUTRACEUTICAL
INDUSTRY**
INDIA



2020
**RESEARCH
CONTRIBUTION TO
NATURAL PRODUCT**
INDIA

Late DR. MUHAMMED MAJEED // FOUNDER // RECIPIENT OF ELLIS ISLAND MEDAL OF HONOR BY NECO AUTHORIZED BY THE U.S. CONGRESS

Mastering the Microbiome Market: A Strategic Guide to Success

- Global microbiome market represents one of the fastest-growing sectors in healthcare and wellness
- Projected to reach \$108B by 2030 (Frost & Sullivan, 2024)
- Annual growth rate of 22.3%.
- Growth is driven by increasing:
 - Awareness of gut-health connections
 - Rising chronic disease rates
 - Shift toward preventive healthcare

Top 3 Drivers

- Personalized nutrition
- Women's health microbiome R&D
- Gut-skin-health crossover products

Key growth regions: North America, EU, Southeast Asia

“Clean-label + clinically proven” now a mandatory expectation



Human Microbiome Project



153 Million USD

80 Universities

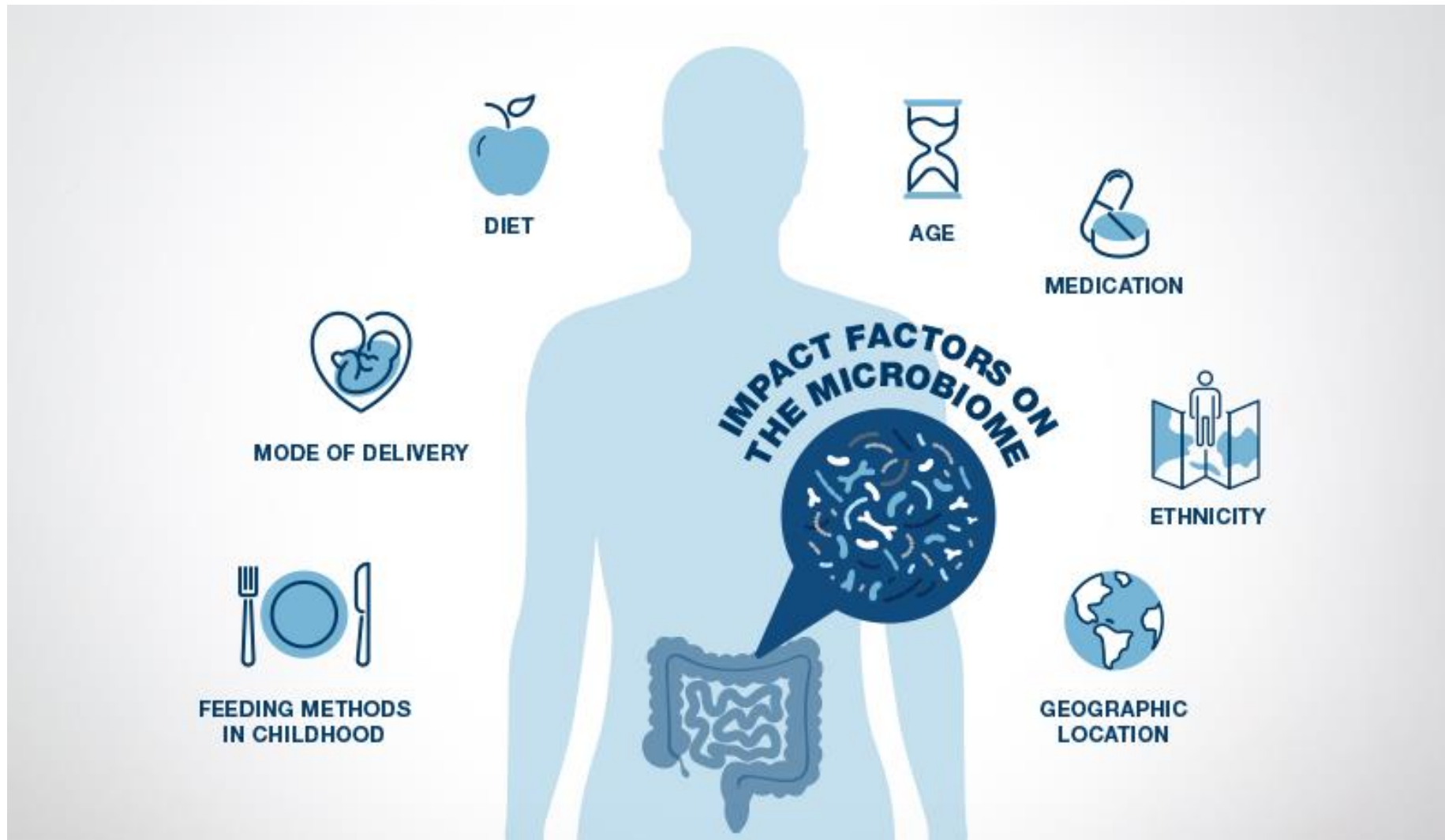
242 Subjects

5000 samples

5 Years Research

10,000 species

8 million protein
coding genes



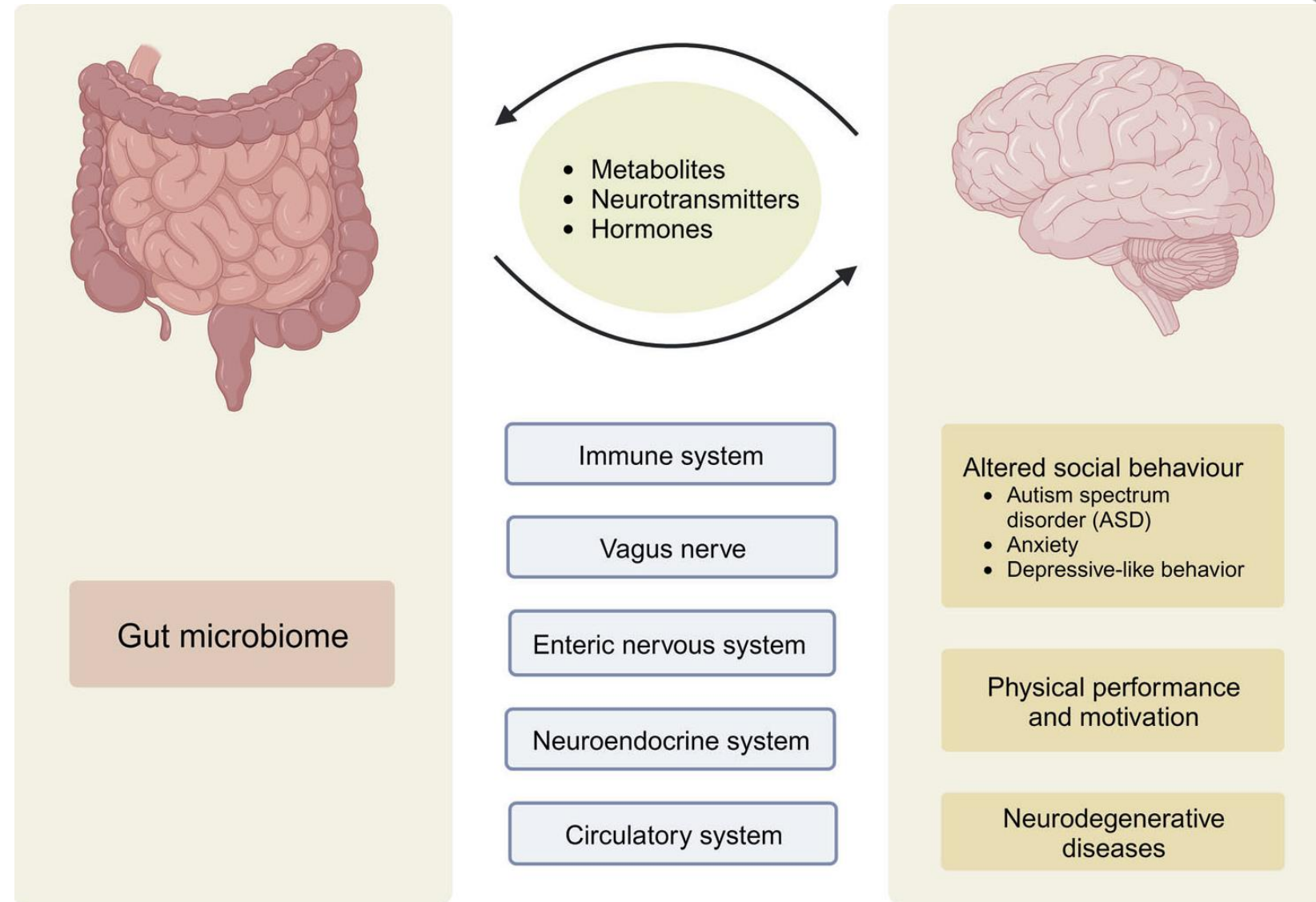
Source: [Online](#)

TAXONOMIC BREAKDOWN

Taxonomic Rank	Bacteria	Archaea	Total
Phyla	169	20	189
Classes	571	63	634
Orders	1,976	171	2,147
Families	5,311	603	5,914
Genera	27,326	2,079	29,405
Species	136,646	6,968	143,614

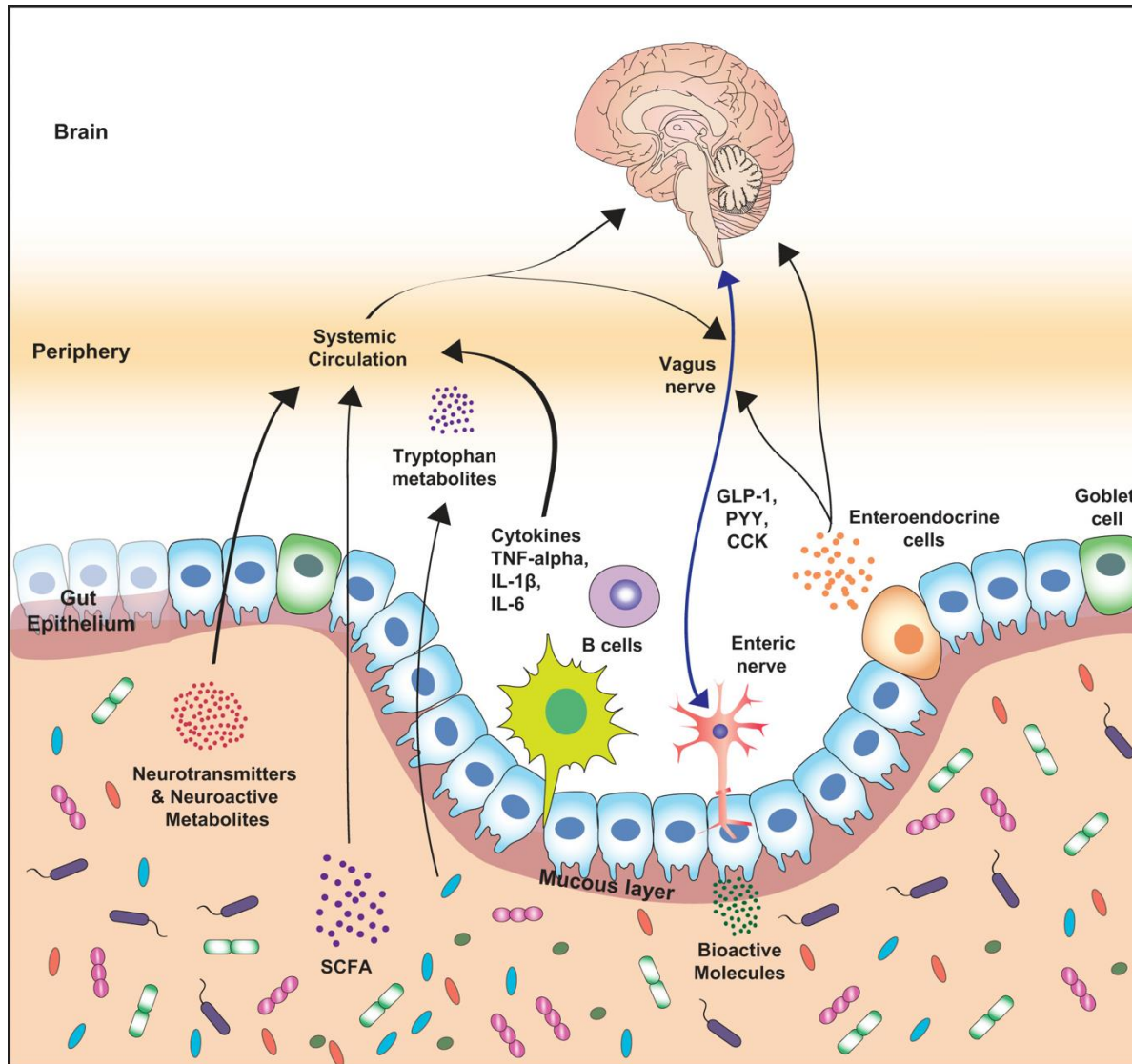
(Source: GTDB R226 stats as of April 16, 2025)

Gut Brain Axis



Nature 2024. Microbiota-gut-brain axis and its therapeutic applications in neurodegenerative diseases

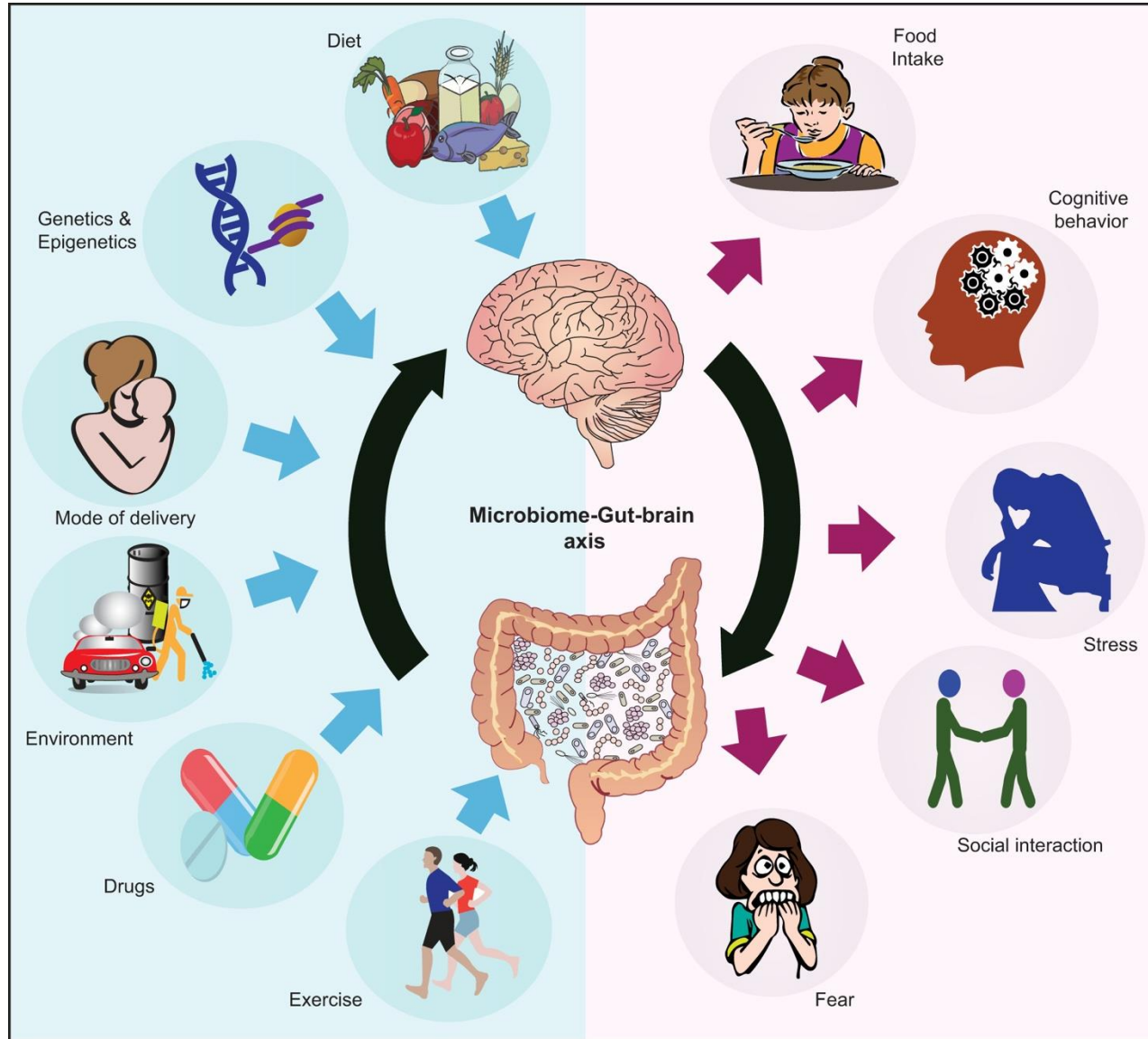
Bidirectional Pathways in the Gut–Brain Axis



- Gut microbiota \rightleftharpoons Brain (central nervous system)
- Immune-modulatory signaling (e.g., ILs, TNF)
- Neuronal innervation (vagal and enteric pathways)
- Enteroendocrine signaling (e.g., GLP-1, PYY, CCK)
- Microbial metabolite signaling (e.g., SCFAs)
- Hepatic and gallbladder metabolism influence

Source: DOI: (10.1152/physrev.00018.2018)

Factors Influencing the Microbiota–Gut–Brain Axis



Key Influencers on Microbiota–Gut–Brain Activity:

- Diet and nutrition
- Genetic predisposition and epigenetic modifications
- Environmental exposures
- Use of medications (e.g., antibiotics, psychotropics)
- Physical activity and exercise
- Mode of delivery at birth (Normal vs. cesarean)

Behaviors Affected by Axis Perturbations:

- Cognitive function
- Social behaviors
- Stress response
- Fear processing
- Appetite and food intake

Source: DOI: (10.1152/physrev.00018.2018)

PROBIOTICS

Live microorganisms which, when administered in adequate amounts, confer a health benefit on the host

Joint FAO/WHO Working Group

LactoSpore®: The Resilient Probiotic

Heyndrickxia coagulans (*Bacillus coagulans* MTCC 5856)

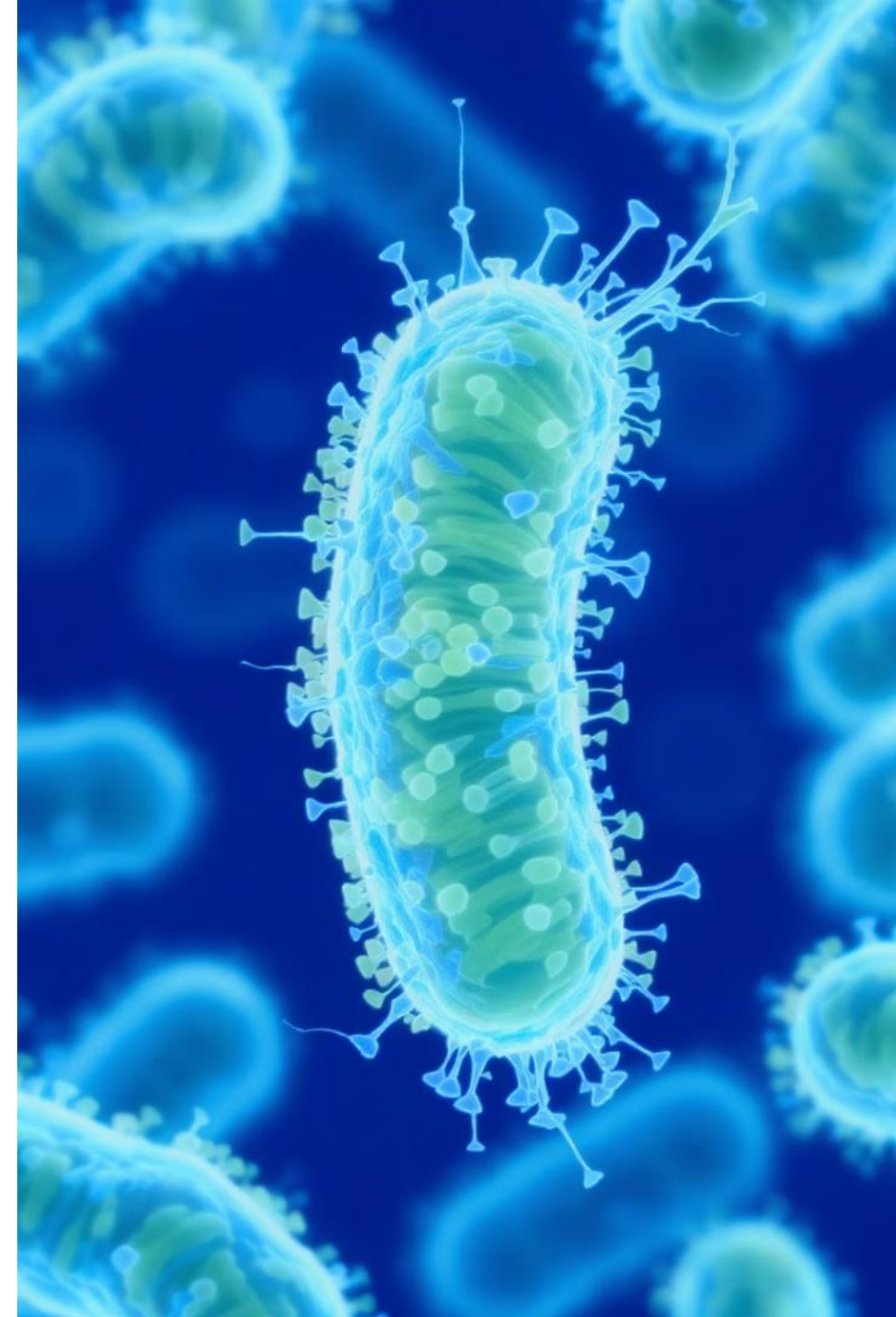
Spore-forming probiotic with superior stability and targeted gut-brain benefits

- Shelf-stable probiotic
- Heat and storage stable
 - Three-year stability
 - Three grades: 6B, 15B, 100B
 - The **Original Stable Probiotic** helps to maintain overall health
 - LactoSpore® produces the beneficial short chain fatty acids (SCFA) by fermenting plant-based fibers
 - Supported by clinical studies for a range of health benefits.
- Patented

Health Benefits

- IBS Management
- Mood Enhancement
- Immune Support
- Digestive Health

Source: lactospore.com



Postbiotics: The New Frontier

PoZibio® - Next Generation Digestive Health

Clinically-formulated postbiotic supplement targeting to help *'leaky gut syndrome'*

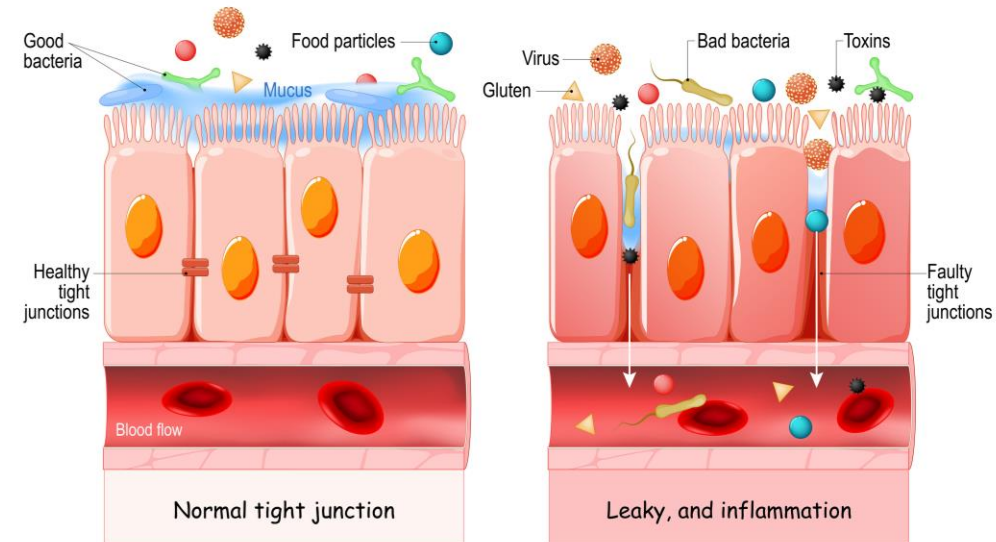
• Key Benefits

- Strengthens Gut Barrier - Enhances gut lining integrity
- Reduces Age-Related Inflammation - Balances immune response
- Supports Cognitive Function - Promotes gut-brain connection
- Enhances Metabolic Health - Optimizes digestion & energy

• Scientific Validation

- \$2M research grants from NIH & U.S. Department of Defense
- Wake Forest University validated
- Patented *Lactobacillus paracasei* formulation
- Proven mechanism: Regenerates gut's protective mucus layer

Leaky gut syndrome



"The Next Generation of Digestive Health Supplement for a Longer, Healthier Life"



Pioneer in Botanical Innovation



37 Years of Botanical Expertise



120+ Products



503+ Patents



350+ Scientific Studies



8+ Manufacturing Sites



19 Countries



120+ Scientists



700+ Publications

Headquarters

Sabinsa Corp.
20 Lake Drive
East Windsor, NJ 08520

Manufacturing

Sabinsa Corp.
750 Innovation Circle
Payson, UT 84651

5000+

Customers in 70+ Countries

99.8%

Active Customer Retention Rate

Certifications

ISO, FDA audited facilities



Herbal Remedies and Botanicals: Natural Allies for the Microbiome

Curcumin C3 Complex®-The Inflammation Modulator

Gold Standard Curcumin Extract

Patented turmeric extract with enhanced bioavailability and targeted neuroprotection

Mechanism of Action and health benefits

- Neuroinflammation: Reduction in inflammatory markers (TNF- α , IL-6), enhanced microglial function
- Gut Barrier: Improvement in intestinal permeability, enhanced tight junction proteins
- Oxidative Stress: Increase in antioxidant enzyme activity, mitochondrial protection
- Mood Support: Improvement in depression scores when combined with standard therapy



Source: curcuminoids.com



Shagandha®-The Stress Modulator

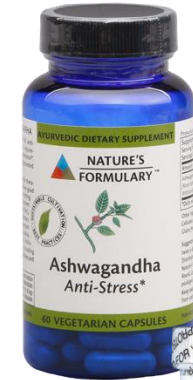
Premium Ashwagandha Extract



Stress-Gut-Brain Connection

- Best for stress management support
- Potent root extract of Ashwagandha, standardized and effective with just 2.5% withanolides
- A premier adaptogen with a long history of use in Ayurvedic medicine
- Cortisol Regulation: Reduction in morning cortisol, normalized circadian rhythm
- Microbiome: Protects beneficial bacteria during stress
- Gut Permeability: Improvement in intestinal barrier function under stress conditions
- Cognitive Performance: Improvement in executive function, enhanced working memory
- Sleep Quality: Improvement in sleep onset, better sleep quality scores

Source: shagandha.com



Regulatory Requirements and Compliance

United States (FDA)

- GRAS Status requirement
- Structure/function claims only
- Food additive or drug pathways

European Union

- Novel Food Regulation
- EFSA health claims authorization
- QPS list compliance

Asia-Pacific

- Japan's established functional foods
- China's evolving framework
- Australia/NZ TGA oversight

Challenges:

- Navigating the complex regulatory landscape represents a significant challenge but also a potential competitive advantage

Best practices:

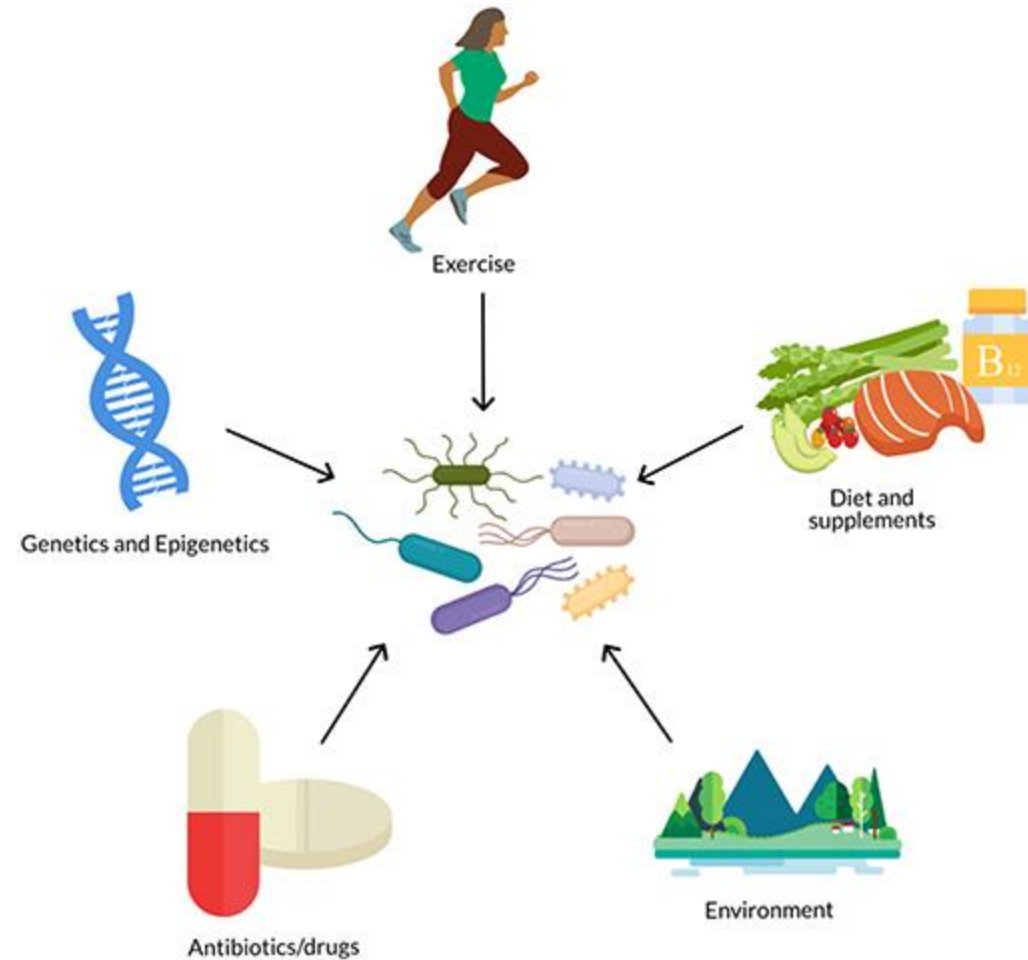
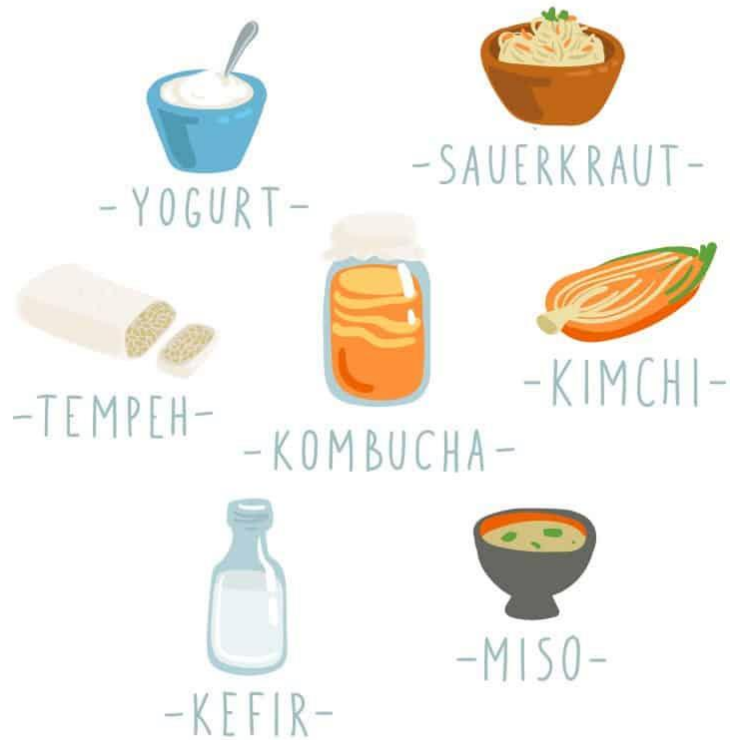
- Early regulatory consultation
- Maintaining comprehensive safety dossiers and clinical evidence
- Implementing robust manufacturing records

“Companies that master global regulatory harmonization gain significant speed-to-market advantages in this rapidly evolving sector”



Practical Takeaways: How to Support a Healthy Microbiome

✧ PROBIOTIC FOODS ✧



Source: [Frontiers in Nutrition](#)

Disclaimer

Any references to plant-derived nutrients in this presentation and their effects on diseases, including claims of curing, modifying the course, or alleviating symptoms, are paraphrased from published, peer-reviewed scientific literature. These statements are not intended to suggest that these nutrients are drug products.

These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, mitigate or prevent any disease.



Thank You and Q&A



participating members of:



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