

International Society
of  microbiota

Microbiota Analysis Kits & Probiotics Formulation

For Humans & Animals

10TH
WORLD
CONGRESS

OCT. 17>19
— 2023 —
VENICE
ITALY

WORKSHOP

Microbiota Analysis Kit & Probiotics Formulations: For Humans & Animals

October 17, 2023 – Venice, Italy

The International Society of Microbiota (ISM) is pleased to organize the workshop dedicated to Microbiota Business Launching.

Why a workshop dedicated to a Microbiota Business?

The advancement of microbiota research has created a new market potential by targeting microbiota to improve the quality of life. The question is how to implement or realize the microbiota research findings in to business and reach the community without complicated process.

The first product is the analysis of individuals microbiota composition and function and to provide recommendations for the users or consumers based on the result. A self-test kit is one of the products, where individuals request the product or kit online or in shops then collect their sample at their convenient places and send it to the company for microbiota analysis.

Our aim is to elaborate the curation of microbiota research, implementation and product development as a business platform. We will also explain the microbiota analysis kit (self-test kit) development and its content for human and animal use.

The workshop will cover the following:

1- How to develop microbiota analysis kit for humans and animals?

The microbiota analysis kit is user-friendly and popular, but it faces challenges. These include the lack of general standard, protocols and guidelines and issues of results reproducibility and level of scientific evidence. This session will address these issues and possibly propose some recommendations or consensus statement.

2- Formulation of probiotics strains for humans and animals

This session will cover the scientific background, probiotic strains selection process, dose determination, safety, labeling, claims and regulatory aspects.

Strategies to overcome the barriers in microbiome businesses and have a successful launch will also be discussed.

Looking forward to meeting you very soon.



Dr. Tewodros Debebe, PhD
Scientific Officer
International Society of Microbiota

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Agenda

13h00 **Welcoming of Attendees**

14h00 **Session 1: How to develop microbiota analysis kit for humans and animals?**

a- Microbiota analysis kit: Introduction

This section will introduce the microbiota analysis kit, its technical process, challenges, limitations and the way forward.

- Definition and content of the microbiota analysis kit (what it contains inside)
- How it works (technical process); from sample collection to result report
- Scientific background for microbiota analysis kit
- Insight into current microbiota analyzing companies, such as
 - Their number (how many companies)
 - Their location,
 - Pricing etc.
- Challenges and limitations of microbiota analysis kit
 - Strength of scientific evidence
 - Sample collection standards or protocols
 - Result reproducibility & representativeness
 - Quality control & lack of a general guideline or standard
- Provision of recommendations and solutions
 - Development evidence-based standard, protocol or guidelines
 - Defining certain criteria for microbiota analysis kit evaluation
 - Evaluation of microbiota analysis kit and eventually grading
 - Possibly certification of microbiota analysis kit

b- Practical aspects of kits development

This section will cover scientific evidence evaluation, product development process and launching as a product for target consumers.

- Microbiota-based scientific literature search, storage and curation
- Generating knowledge database
 - Defining topics, such as weight regulation, immune support or indications, obesity, CVD etc.
 - Description of microbes, what they are, where to find them and what they do etc.
 - Generating healthy community and reference values for result interpretation

- Recommendations based on microbiota analysis results
 - Foods
 - Supplements
 - Lifestyle
- Integrating literatures/sources
- Developing product prototypes
- Integrating the knowledge database to dashboard (website)
- Launching the product to potential consumers (B2C, B2B, etc.)

16h00 **Session 2: Formulation of probiotics strains for humans and animals**

This section will cover scientific evidence evaluation, probiotic strains selection and formulation, safety and efficacy, regulatory aspects.

- Scientific literature (clinical studies) search, storage and curation
- Probiotic strains selection process
- Probiotic dose determination
- Inclusion of minerals and vitamins in probiotic
- Inclusion of prebiotic in probiotic (as symbiotic) and its scientific basis
- Regulatory aspect of probiotic, such as safety, claim, labeling etc.

17h30 **Questions & Answers**

18h00 **End of the Workshop**

| CONFERENCE
AGENDA |

Who Should Attend?

The workshop is addressed to all scientists, academicians, doctors, clinicians, healthcare providers and institutes involved in the field of microbiota, chronic diseases, metabolic diseases, immunological diseases. It also involves researchers in the field of probiotic, prebiotics, R&D directors, clinical trials, microbiota profiling companies, pharma industries involved in probiotic, prebiotic formulation and microbiota-based product development, quality control personnel in the field of microbiota, probiotic & prebiotics. Scientists in the field of method standardization and regulatory bodies of food supplements development are also welcome to join.

[Registration](#)

Teaching Resources

- Presentation support given to participants
- Presentation proposed by the speaker via PowerPoints
- Q&A session with all participants

Each participant will receive a report detailing each session and will obtain summaries and PowerPoint presentations.

If you cannot attend the workshop, you can order:

- The report in PDF format
- The recorded Workshop

For more information, please visit: www.microbiota-site.com or contact us at [microbiota\(at\)microbiota-ism.com](mailto:microbiota(at)microbiota-ism.com).



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