

CELEBRATING
OUR 3RD YEAR

November 11-13 | Boston, MA
www.microbiome-nutrition.com

MICROBIOME MOVEMENT HUMAN NUTRITION

Harnessing Microbiome R&D to Develop Precise Nutritional Solutions that Promote Long-Term Human Health



Michael Barratt

Assistant Professor,
Pathology & Immunology
Washington University in
St. Louis



Tiffany Weir

Associate Professor Food
Science & Human Nutrition
Colorado State University



Muriel Derrien

Gut Microbiota Research
Scientist
Danone Nutricia Research



David Sela

Assistant Professor
University of
Massachusetts Amherst



Bernard Berger

Senior Scientist
Nestle Research Center



Cindy Davis

Director, Office of Dietary
Supplements
NIH



Raja Dhir

CEO
Seed Inc.



Christina Khoo

Director, Global Health
Science & Nutrition Policy
Ocean Spray Cranberries

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Tel: +1 617 455 4188 Email: info@microbiome-movement.com  @MicrobiomeDaily



WELCOME TO THE 3RD ANNUAL MICROBIOME MOVEMENT - HUMAN NUTRITION SUMMIT

Recent scientific and clinical advances over the past decade have identified the trillions of microbial cells that reside in the gut, collectively known as the gut microbiome, as a key regulator of human health and disease. This rapid rise in interest for the gut microbiome has permeated beyond the scientific community, exemplified by the rapid growth of the pro- and prebiotic market, now estimated to be a multibillion-dollar industry.

However, despite the rise in new products and services that claim to target the microbiome and improve health across adult and infant populations, there are fundamental questions surrounding the functional, clinical and practical applicability of microbiome-directed research that currently remains unresolved.

Celebrating our third year, the **Microbiome Movement - Human Nutrition Summit** returns to carefully combine cutting-edge basic and clinical science with product developers from the global food, supplement and nutraceutical industry to help answer these questions and accelerate the potential for microbiome-targeted solutions in nutrition.

Across three days, this year's program will continue to highlight these key discussion areas:



Research

Better demonstrate the scientific, mechanistic and clinical efficacy of diet-microbiome interactions across a diverse range of health indications and mechanisms

Translation

Learn how start-ups, academics and leading nutritional brands are **overcoming critical clinical, regulatory and commercialization challenges** when utilizing microbiome science to drive the development of personalized nutritional solutions



Communication

See how microbiome experts are **establishing brands that engage their target market, to better communicate the benefits of microbiome research and help differentiate their products from competitors**

JOIN THE MICROBIOME MOVEMENT



January 2020: Paris, FR

www.microbiome-europe.com

"It was a great conference to effectively learn the current trends in microbiome drug development around the world"

Nanae Izumi, Senior Researcher, Daiichi Sankyo



February 2020: Raleigh, NC

www.microbiome-agbiotech.com

"Possibly the best conference in the agricultural microbiome space - a great mix of basic scientific research and product development from universities, multinationals and start-up companies. Congratulations!"

Marcus Meadows-Smith, CEO, BioConsortia



May 2019: Boston, MA

www.microbiome-infant-health.com

"This is great opportunity to learn and connect with thought leaders who are on the forefront in the emerging areas of maternal and infant microbiome health"

Noah Voreades, GenBiome Consulting, Confirmed Speaker



June 2019: Boston, MA

www.microbiome-summit.com

"This meeting is possibly the best in the microbiome field for a biotech company, for networking and hearing the latest developments"

Mike Romanos, CEO, Microbiotica



July 2019: Boston, MA

www.microbiome-oncology.com

"This is a timely event in light of recent research published on the microbiome and cancer immunotherapy. I look forward to a productive discussion forum"

Xue Liang, Senior Scientist, Microbiome/Molecular Scientist, Merck Exploratory Science Center



September 2019: San Diego, CA

www.microbiome-dermatology.com

"This meeting was the perfect balance between basic/applied science and academic/commercial interest"

Greg Hillebrand, Senior Principal Research Scientist, Amway



September 2019: Singapore

www.microbiome-movement-asia.com

"The microbiome is one of the most emerging fields right now and at this meeting we have the group leaders and industry pioneers in the field of microbiome science and knowledge"

Yogesh Mudalier, Research Investigator - Formulation Development, Takeda



December 2019: Boston, MA

www.gutbrain-axis.com

"It is one of the best meeting I've been to! Great job!"

Yanjiao Zhou, Research Scientist, The Jackson Laboratory

WORLD-CLASS SPEAKER FACULTY



Daniel Ramon Vidal
VP R&D, Health & Wellness
ADM



Andrea Doolan
CEO
Atlantia Food Clinical Trials



Jennifer Spinler
Instructor
Baylor College of Medicine



Nalin Siriwardhana
Program Manager
Nutritional Sciences
Church & Dwight



Tiffany Weir
Associate Professor, Food
Science & Human Nutrition
Colorado State University



Ravi Sheth
Graduate Student &
Researcher
Columbia University



Manoj Dadlani
CEO
CosmosID



Muriel Derrien
Gut Microbiota Research
Scientist
Danone Nutricia Research



Lihi Segal
CEO
DayTwo



David Kyle
Executive Chairman and
CSO
Evolve Biosystems



Carmen Tartera
Research Microbiologist
Center of Food Safety and
Applied Nutrition
FDA



Noah Voreades
Consultant
GenBiome Consulting



Alexander Buko
VP, Pre-Clinical & Clinical
R&D
**Human Metabolome
Technologies**



Kirk Beebe
Senior Director
Metabolon



Lynn Dornblaser
Director, Innovation &
Insight
Mintel



Darrel Drinan
CEO & Co-Founder
Natal Health



Cindy Davis
Director, Office of Dietary
Supplements
NIH



Bernard Berger
Senior Scientist
Nestle Research Center



Alan Murray
CEO
NextFoods



Christina Khoo
Director, Global Health
Science & Nutrition Policy
Ocean Spray Cranberries

WORLD-CLASS SPEAKER FACULTY



Ben Goodwin
CEO
Olipop



Mike Janusz
Principal Scientist
Procter & Gamble



Jose Carlos Garcia-Garcia
Principal Scientist
Procter & Gamble



Aurelien Baudot
International Business
Developer
ProDigest



Raja Dhir
CEO
Seed Inc.



Sharon Donovan
Professor
University of Illinois



Thomas Gurry
Senior Research Associate
University of Geneva



David Sela
Assistant Professor
University of
Massachusetts Amherst



Anil Sharma
Researcher
University of Minnesota



Kara Landau
CEO & Head Dietician
Uplift Food



Momo Vuyisich
CSO
Viome



Michael Barratt
Assistant Professor,
Pathology & Immunology
Washington University in
St. Louis



David Beno
Chief Scientific Officer
Xeno Biosciences

"This is the best place to get a good overview of the fast-moving science and the emerging companies enabled by these advances."

Mark Connell, Founder & CEO, nuBound

"I took away more ideas and connections from this meeting than I could have hoped for, and was able to learn about new innovative products and practices from industry leaders who actually utilize them. Hope to be back next year!"

Charlie Frahm, Agronomist, Blue Prairie Brands

COMMERCIALIZATION, DIFFERENTIATION & COMMUNICATION DAY

As organizations search for effective methods of product differentiation, the role of brand, consumer education and engagement play an essential role in the success of a new product targetting the human microbiome within the food and nutrition industry. By leveraging successful case-studies from start-ups,

nutritional market experts and leading nutritional brands, leave this workshop day with a better understanding of the latest trends, challenges and opportunities when launching a nutritional brand in the microbiome sector, whilst learning how to cut through the noise and communicate to your target market.

9.00 **Registration & Morning Coffee**



INTRODUCTION

10.00 **Addressing the Microbiome's Impact on Product Development Strategy in Food/Nutrition/Supplements Verticals & Lessons Learned**

- Microbiome's influence in product development strategy across food/nutrition/supplement/personalization verticals will increase in-step with consumer trends and demand
- Consumer demand, manufacturing capabilities, regulatory landscape and scientific knowledge will drive ingredient selection and finished product differentiation strategies
- Microbiome-based personalization modalities are currently limited to specific use cases and multiple factors are required to recognize further innovation



Noah Voreades
Consultant
GenBiome Consulting

BRAND POSITIONING & PRODUCT DIFFERENTIATION

10.30 **Building a New Prebiotic Brand Product Category Focused on Digestive Health**



Kara Landau
CEO and Head Dietician
Uplift Food

11.00 **Formulating for Disruption – How to Avoid Consumer Fatigue by Identifying Key Trends & Leveraging Scientific Information**



Ben Goodwin
CEO
Olipop

11.30 **Repositioning Products at Ocean Spray that Target Novel Microbiome Science**



Christina Khoo
Director, Global Health
Science & Nutrition Policy
Ocean Spray Cranberries

12.00 **Comfort Break**



- 12.15 **Using the Science of the Microbiome to Expand Evivo into a Globally Recognized Brand**
- Discussing how commercial probiotics generally focus on outcome and not mechanism of action
 - Understanding how a clear mechanism of action is a starting point to engage consumers and HCPs
 - With strong science, branding can lift a product above the "sea of sameness"
-  **David Kyle**
CSO
Evolve Biosystems

- 12.45 **What Have We Learnt from the Microbiome and How Does This Influence the Food, Nutrition and Dietary Supplement Industry?**
-  **Jose Carlos Garcia-Garcia**
Principal Scientist
Procter & Gamble

13.15 **Lunch & Networking**



UNDERSTANDING & ENGAGING THE CONSUMER

- 14.15 **Positioning the Microbiome to Consumers**
-  **Lynn Dornblaser**
Director, Innovation & Insight
Mintel

- 14.45 **Understanding the Modern Health & Wellness Consumer - Communication Strategies to Ensure Success**
- Discovering what motivates your core consumer
 - Understanding how she shops
 - Tips for getting your messaging right
-  **Alan Murray**
CEO
NextFoods

- 15.15 **Changing Consumer Behaviour to Allow for Greater Adoption of Microbiome-Targeted Products**
-  **David Beno**
Chief Scientific Officer
Xeno Biosciences

- 15.45 **Market Education – Mother and Clinician – Why, Who and When?**
- Addressing what education the market will need on the microbiome and the impacts to maternal and infant health
 - Discussing how to translate the clinical knowledge into consumer language and messaging
 - Understanding who the mother listens too – paediatrician, mommy blogger, peers, and/or family
-  **Darrel Drinan**
CEO and Co-Founder
Natal Health

15.45 **Close of Pre-Conference Commercialization Day**

"The Microbiome Human Nutrition Summit was spot on in terms of bringing the right mix of people together with the right mix of topics"

Dale Pfof, CEO, Microbiome Therapeutics

7.30 **Registration & Morning Coffee**



THE IMPACT OF DIET & NUTRITION ON HUMAN MICROBIOME & HEALTH

Session Purpose:

As the importance of nutrition and dietary intake to lower the risk of disease and improve overall health increases, the gut microbiome continues to emerge as a valuable source of scientific innovation for the food science community. Despite the global excitement, there are still significant scientific and commercial challenges when identifying microbes with known health benefits and translating that research into safe, effective and scalable dietary so of the future. The purpose of this opening theme will be to review the current understanding of the gut microbiome as it relates to nutrition and address the challenges that slow progress.

8.30 **Diet, Microbiome and Health: Past, Present & Future**

- Defining the gaps in our understanding of the influence of diet on the microbiome
- Looking at how dietary influence affects exposure to metabolites that exhibit health benefits
- Understanding the partnerships that are of high relevance to the office of dietary supplements



Cindy Davis

Director of Grants and Extramural Activities, Office of Dietary Supplements
NIH

9.00 **The Gut Microbiota, Food Science, and Human Nutrition: A Timely Marriage**

- Reviewing the advances that are allowing for more precise mechanistic insight between diet, microbiome and health status
- Combining preclinical models, food science and clinical studies to assess the impact of microbiome science
- Producing "microbiota-directed foods" that support efficient microbial transformation of ingredients into metabolic products that promote health



Michael Barratt

Assistant Professor,
Pathology & Immunology
Washington University in St. Louis

9.30 **The Gut Microbiota at the Intersection of Diet and Human Health**

- Linking diet with chronic metabolic conditions including obesity, type 2 diabetes, and cardiovascular disease
- Using gut microbes to improve fundamental biological processes
- Reviewing new human and animal model studies to demonstrate the impact of diet on the microbiome to improve cardiovascular health



Tiffany Weir

Associate Professor, Food Science and Human Nutrition
Colorado State University

10.00 **Panel Discussion: The Importance of Translating Microbiome Research to Shape the Future of Nutritional Product Development**



Cindy Davis

Director of Grants and Extramural Activities, Office of Dietary Supplements
NIH



Tiffany Weir

Associate Professor, Food Science and Human Nutrition
Colorado State University



Michael Barratt

Assistant Professor, Pathology & Immunology
Washington University in St. Louis

10.30

Microbiome Analysis as a Tool in Developing Unique Functional Ingredients

- Analyzing the gut, oral, vaginal, and skin microbiomes of humans to identify baseline enterotypes and changes due to external influence
- Using microbiome, metagenome, and transcriptome analysis to extract additional relevant data in the clinical study setting
- Detecting alterations in the microbiome following supplementation with targeted functional probiotics (atopic dermatitis, metabolic health/weight loss)



Daniel Ramon Vidal
VP R&D, Health & Wellness
ADM

11.00

Morning Refreshments & Speed Networking



TARGETING THE MICROBIOME FOR GI, METABOLIC & IMMUNE HEALTH

Session Purpose:

Due to the gut microbiome's crucial impact on immune function, digestion and food metabolism, overall gut microbiota compositions and function have been consistently linked to the treatment and many cases, prevention, across a number of key GI, metabolic and immune health conditions. This theme will review the most recent advances of utilizing cutting-edge microbiome science to expand on the understanding of the role of the microbiome in determining GI, metabolic and immune health and insights from developing nutritional interventions within these populations.

12.30

Functional Attributes of Live Microbes

- Building a platform that combines clinical trial data, cell line testing, WGS insights and GI simulation models to develop breakthrough nutritional products
- Exploring a 'microbe-systems' approach with benefits in digestive health, immune function, reproductive health and gut barrier integrity
- Demonstrating new standards in pro- and prebiotic product development



Raja Dhir
CEO
Seed Inc.

13.00

Developing Butyrate Producing Probiotics to Treat Metabolic Disorders

- Reviewing the role microbial metabolites and their known biological activities
- Addressing the known MoAs of metabolites as a tool for future product development
- Isolating a SCFA producing bacterial strain to help treat metabolic disorders



Mike Janusz
Principal Scientist
Procter & Gamble

13.30

Clinical Trial Considerations for Microbiome-targeted Products in Nutrition

- Assessing the viability of microbiome-targeted products through well-designed clinical trials
- Why randomized controlled trials (RCTs) are considered the gold standard for claim substantiation
- Using RCTs within the food and nutrition industry



Andrea Doolan
CEO
Atlantia Food Clinical Trials

14.00

Lunch & Networking



MULTI-OMICS & BIOINFORMATICS: ASSEMBLING & ANALYSING MICROBIOME DATA FOR TRANSLATIONAL SUCCESS

Session Purpose:

When organizations investigate the microbiome and its relationship with human health, recent breakthroughs in multi-omics technologies have become an important tool to characterize the structure and function of microbial communities in any given sample. Despite the success and availability of 16S rRNA sequencing, many organizations are now moving towards more complete tools, including shotgun metagenomics or metabolomics to provide precision level identification. The purpose of this theme will be to review the leading sequencing technologies that are used by industry and how those findings are translated into nutritional interventions of the future.

15.00 **Microbiome Characterization – Standards, Sequencing and Bioinformatics**



Manoj Dadlani
CEO
CosmosID

15.15 **The Essential Ingredients for Decoding the Microbiome with Metabolomics**

- Improving mechanistic understanding to enhance practical use of information
- An illustration to show how metabolites broker important microbe-host interactions
- Showing metabolomics as a tool to enrich insights into interaction associations



Kirk Beebe
Senior Director
Metabolon

15.25 **A Systematic Analysis of Probiotic Content Label Claims versus Reality**

- Metagenomics as a tool to determine product compliance
- Ways to increase sensitivity of detection
- Benefits of genome databases



Carmen Tartera
Research Microbiologist
Center of Food Safety and
Applied Nutrition
FDA

15.55 **Profiling Nutrient and Bio-Functional Compounds to Support the Development of Food and Nutritional Products**



Alexander Buko
VP, Pre-Clinical and Clinical R&D
Human Metabolome
Technologies

16.05 **Afternoon Refreshments & Networking**



16.30 **New Tools for Understanding Microbiome Spatiotemporal Ecology in Human Health and Nutrition**

- Human microbiome samples show significant spatial variability; new methodology can decompose temporal, spatial and technical contributions
- New tools for characterizing microscopic spatial metagenomic distributions of bacteria (MaP-seq) reveal significant spatial structuring in mouse and human microbiome samples
- Applying these tools to understand nutritional perturbations in the mammalian gut



Ravi Sheth
Graduate Student and
Researcher
Columbia University

USING CLINICAL EVIDENCE TO SUPPORT MICROBIOME RESEARCH IN NUTRITION

Session Purpose:

Microbiome-targeted solutions in nutrition are being actively investigated in clinical trials to further demonstrate the functional benefits of microbes across a variety of potential mechanisms. The purpose of this theme will be to review the importance of gathering clinical evidence, effective study design and examples of past and current clinical trials that are testing microbiome-targeted nutritional solutions for the treatment of a range of conditions.

17.00 Rethinking Diet to Complement Gut Microbiota Function

- Overall diet analysis – Diet – gut microbiota analysis from clinical trial reveals functional and strain association with food categories and clinical data
- Case of consumption of multi-strain fermented milk product consumption on human gut microbiota using shotgun metagenomic – Learnings
- Towards precision nutrition: selection of strains – ingredients based on nutritional use of intestinal commensal bacteria of interest



Muriel Derrien

Senior Gut Microbiota Scientist

Danone Nutricia Research

17.30 Comfort Break



AFTERNOON WORKSHOP DISCUSSIONS – REVIEWING THE IMPACT OF DIETARY COMPONENTS ON THE HUMAN MICROBIOME

Session Purpose:

Designed to be more informal and interactive, the purpose of the afternoon workshop discussions will be to open a debate around the current challenges and future perspectives of dietary components that look to target modulate the human microbiome for improved health outcomes.

17.45 Workshop A: Advancing the Future of Probiotics

Session Purpose:

Development of probiotic supplements that claim to promote health and wellbeing continues to increase worldwide. Although the benefits of probiotics have been well studied, the scientific community have published a number of clinical investigations that throw doubt on many commercially available strains and formulations. Given the recent rise of microbiome science and technology, the purpose of this workshop session will be to highlight the key advances, challenges and limitations of probiotic supplements and highlight the future use of this dietary component.

Discussion Points:

- Probiotics 2.0 – moving into new indications
- Reviewing clinical and mechanistic study design challenges
- Novel formulations and delivery systems for novel probiotics
- Regulatory concerns and future perspectives

17.45 Workshop B: Advancing the Future of Prebiotics

Session Purpose:

Emerging research has suggested that the composition and function of host gut microbiota can be impacted through consumption of non-digestible prebiotic compounds. The purpose of this workshop will be to review the definition of prebiotic compounds with demonstrated health benefits and develop future frameworks for product development.

Discussion Points:

- Reviewing criteria that classifies prebiotics ingredients
- New sources for prebiotic innovation
- Discussing challenges with production and commercialization
- Considering future directions and applications to improve gut health

17.45 Workshop C: Advancing the Future of Postbiotics

Session Purpose:

Although the benefits of probiotics have been long established, the underlying mechanisms have often remained obscure. With the rise of metabolomics, increasing evidence has supported that bacteria-derived products, termed postbiotics and include compounds such as SCFAs, bacteriocins and other secreted proteins have demonstrated a similar role in maintaining health of the host. The purpose of this workshop will be to review the current understanding of postbiotics and their subsequent applications to the food, nutrition and nutraceutical community.

Discussion Points:

- Overview of well-studied postbiotic ingredients
- Discussing pathways and health benefits
- Reviewing the key applications as future functional foods or nutraceuticals

18.30 Close of Conference Day On & Evening Drinks Receptions Hosted by the *Microbiome Movement*

7.30 **Registration & Morning Coffee**



MICROBIOME INSIGHTS FOR PERSONALIZED NUTRITION

Session Purpose:

More knowledge of the your individual gut microbiome composition leads to the generation of person-specific information that can be utilized to assist in personalized diagnostic assessment and targeted treatment options. A number of breakthrough organizations are beginning to take patient-specific microbial data and develop new individualised approaches that enable us to truly access the power of the human microbiome. The purpose of this theme will be to review the current efforts used to collect, interpret and analyse microbiome-specific data to create personalized nutrition solutions of the future.

8.30 **Building a Platform for Personalized Diet Recommendations That Are Based on Gut Microbiome Chemistry and Math Algorithms**

- Metatranscriptomics enables microbial gene expression analysis
- Microbial pathways allow understanding of food substrates and microbial metabolites
- Understanding the microbiome chemistry and using AI models allows us to make personalized diet recommendations



Momo Vuyisich
CSO
Viome

9.00 **Machine Learning in the Microbiome: Providing Predictable Personalized Nutrition based on Your Gut**

- Developing and commercializing an algorithm the predicts blood sugar responses based on the gut microbiome
- Sharing new clinical research
- Creating new insights to address and treat metabolic disorders



Lihi Segal
CEO
DayTwo

9.30 **A Personalized Dietary Framework for Exploiting the Fermentation Capabilities of a Patient's Microbiota**

- Addressing how the same dietary fibre impacts the composition of the microbiota differently in different people
- Different people produce different metabolites from the same dietary fibre input
- Exploiting these differences between patients to devise personalized nutrition strategies and improve clinical outcomes



Thomas Gurry
Senior Research Associate
University of Geneva

10.30 **Morning Coffee & Refreshments Break**



INFANT & PAEDIATRIC MICROBIOME

Session Purpose:

Gut microbiome development is a lengthy, complex and vital process which starts in utero and continues after birth. During the early stages of growth, the gut microbiome composition that is finally established may influence the development of disease later on in life. As such, the infant microbiome has been targeted as an exciting area for researchers and organizations with a nutrition focus. The purpose of this theme is to provide a better understanding into the current research and commercial efforts that are ongoing that aim to understand the factors of supporting the infant gut microbial composition during critical periods (prenatal, perinatal and postnatal) and use that insight into breakthrough nutritional and supplement products of the future.

11.00 **A Multi'omic Dive into Understanding How Diet Modulates Host-Microbiome Interactions in Human Infants**

- Understanding in human milk regulate intestinal development and microbiome composition
- Identifying clinically-relevant host, microbiome and metabolite biomarkers that differentiate breastfed and formula-fed infants
- Applying this information to improve infant formula composition



Sharon Donovan
Professor and Melissa M. Noel
Endowed Chair
University of Illinois

11.30	Human Milk Directs the Function of Bifidobacteria within the Infant Gut Microbiome - Individual human milk oligosaccharides are differentially metabolized by bifidobacteria in a strain-dependent manner - Differential bifidobacterial metabolism impacts microbiome community structure and function - This could have profound implications in developing infant nutrition and health interventions	 David Sela Assistant Professor University of Massachusetts Amherst
12.00	The Natural Symbiosis between B. infantis and HMO Provides Colonization Resistance for the Early Infant Gut – A Clinical Update - The pH of the infant gut microbiome has increased dramatically over the past 100 yr resulting in a loss of colonization resistance. - The loss of colonization resistance results in chronic gut inflammation within 40 days of birth - Colonization resistance can be re-established in the breastfed infant by supplying B. infantis, a key commensal that is missing in 9 out of every 10 babies born in the US today	 David Kyle Executive Chairman and CSO Evolve Biosystems
12.30	Understanding the Role of Human Milk Oligosaccharides in Infant Nutrition - Infant intestinal microbiome development and dynamics - Importance of HMOs in shaping early microbiota maturation and immune system development - Showcasing recent data from an observational study and an intervention trial	 Bernard Berger Senior Scientist Nestle Research Center
13.00	Baby-SHIME Technology Platform: A Step by Step Approach for Pre-Clinical Product Testing on the Infant Gut Microbiome	 Aurelien Baudot International Business Developer ProDigest
13.10	Lunch & Networking	
REGULATORY AND INTELLECTUAL PROPERTY GUIDANCE – CHALLENGES FOR MICROBIOME-BASED CLAIMS IN HEALTH & WELLNESS		
Session Purpose: As the current regulatory guidance distinguishing between drug and food based claims through the microbiome remain confusing, there is a need to create clearer guidelines that incentivize innovation into breakthrough nutritional interventions for disease risk management and overall health and wellness. The purpose of this theme will be to create an open dialogue between basic and clinical scientists, regulatory authorities and industry to review the current regulatory guidance for nutritional products based on targeting of the microbiome whilst highlighting the critical challenges that need to be overcome.		
14.00	An Overview of the Patent and Regulatory Landscape for Microbiome-based Interventions in Nutrition - To understand innovation and patent activity in the area of human microbiome within nutrition - Competitive intelligence: Key organizations and technology adoption trends - Reviewing clinical trials and regulatory developments related to microbiome-based interventions in nutrition	 Anil Sharma Researcher University of Minnesota
14.30	Reviewing Regulatory Frameworks and Claims for Beverages That Leverage Novel Microbiome Insights	 Christina Khoo Director, Global Health Science & Nutrition Policy Ocean Spray Cranberries
15.00	Aligning Regulatory Frameworks, Consumer Insights and R&D for Successful Probiotic Claims and Communications - Successful claims and communication should have a fine balance between consumer and scientific insights - Science should be simple enough for consumer - Prebiotic and postbiotic applications are interesting trends	 Nalin Siriwardhana Program Manager Nutritional Sciences Church & Dwight

INVESTMENT, PARTNERSHIPS & POLICY TO ACCELERATE MICROBIOME INNOVATION IN NUTRITION

Session Purpose:

Despite global advancements in microbiome science and technology, the majority of innovators in the microbiome field are small or early stage companies, eager to obtain financing to fuel further development. Despite the challenges associated with translating microbiome science into successful dietary interventions, many strategic and private investors have begun to take major stakes in microbiome-focused businesses. This theme will review the current investment landscape for microbiome-focused science in the food, nutrition and nutraceutical industry and share key components for success stories.

15.30 **Partnering with Mondelez to Disrupt the Functional Food Category Through Products That Focus on Gut Health**

- Partnering as a tool to strengthen global capacity of your product
- How to navigate a new space in the nutritional market
- Maintaining core values



Kara Landau
CEO and Head Dietician
Uplift Food

FUTURE TRENDS IN FOOD SCIENCE & THE MICROBIOME

Session Purpose:

The microbiome has proven efficacy across a range of health indications, many of which have already been explored at this year's discussion. The purpose of this concluding theme will be to review some of the most exciting areas and trends the human microbiome will impact as it relates to food science and nutrition.

16.00 **Dietary Plant-Derived Microbial Mediators and Intestinal Homeostasis**

- Exosome-like nanoparticles (ELNs) mediate interkingdom communication
- Plant diets impact the gut microbiome and intestinal homeostasis
- Plant-derived ELNs are potential microbiome-mediating bioactives



Jennifer Spinler
Instructor
Texas Children's Microbiome Center & Baylor College of Medicine

16.30 **Close of 3rd Microbiome Movement – Human Nutrition Summit**

"This event brought together companies that have never shared the stage together before. This created visibility to companies advancing microbiome science into real products and services and established the *Microbiome Movement* as a place to present innovation."

Sunny Jain, CEO, Sun Genomics

"The *Microbiome Movement* - Human Nutrition Summit is THE forum for information exchange among leaders working to advance science and technology applied to gut interactions impacting human health."

Brad Taylor, Associate Professor, Brigham Young University

WHO WILL YOU MEET?



30+
SPEAKERS

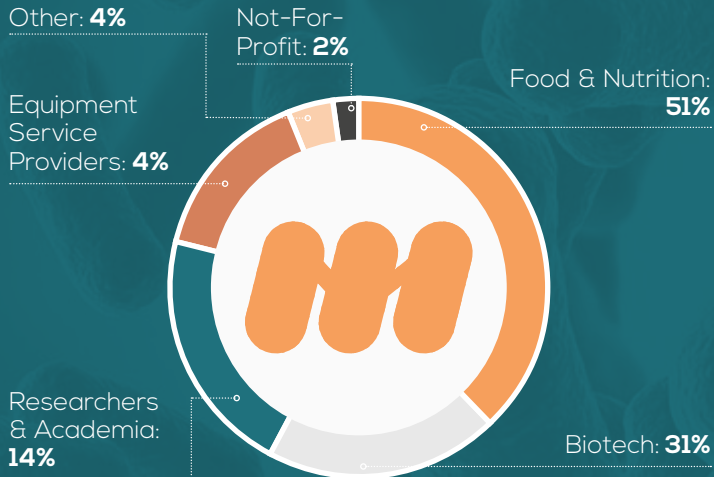


150+
ATTENDEES

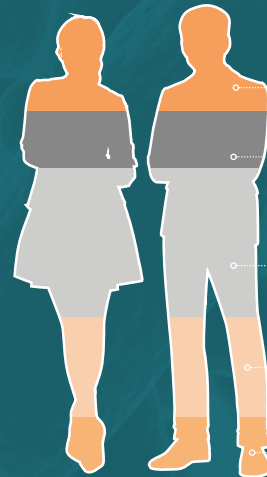


100+
COMPANIES

Company by Type:



Seniority:



C-Level: **17%**
President/VP/Manager: **13%**
Director/Manager: **33%**
Principal Scientist/Lead Investigator: **23%**
Professor/Associate Professor: **14%**

* Statistics based on the Microbiome Movement - Human Nutrition Summits 2017/8

SNAPSHOT OF PREVIOUS ATTENDEES

Food, Nutrition & Supplement Multinationals



Ingredient Manufacturers



Biotech



Academics & Investors



PROUD TO PARTNER WITH



Expertise Partner

At a time when more people are looking for proactive and personalized approaches to manage their nutrition and health, ADM offers an ever-expanding range of specialized and purposeful ingredients including next generation microbiome and biotechnology-based synergistic products, systems and support for better living.

www.adm.com



Expertise Partner

Atlantia Food Clinical Trials Ltd is world class in delivering ICH-GCP standard clinical studies for functional foods & beverages, nutraceuticals, medical foods and dietary supplements.

www.atlantiafoodclinicaltrials.com



Innovation Partner

Metabolon, Inc. is the world's leading health technology company focused on the use of metabolomics in precision medicine and life sciences research.

www.metabolon.com



Innovation Partner

ProDigest is a product leader in the development of unique laboratory models of the human and animal gastrointestinal tract (SHIME®). These models allow to obtain unique insight in gut processes associated to the intestinal fate of actives and to study the complete gut microbiome under controlled conditions.

www.prodigest.eu



Innovation Partner

Human Metabolome Technologies (HMT) is a quantitative and comparative profiling metabolomics company focused on solutions for research and quality control. HMT uses CE/MS and LC/MS technologies in combination with sophisticated statistical informatics and database searching to perform metabolite identification and biomarker discovery in pharmaceutical, agricultural, nutritional and food industries.

www.humanmetabolome.com



Innovation Partner

CosmosID®, based in Rockville, Maryland, provides solutions unlocking the microbiome. A provider of Next-Generation Sequencing (NGS) Services and Bioinformatics Solutions.

www.cosmosid.com



Exhibition Partner

CP Kelco is a leading global producer of specialty hydrocolloids. Its pectin, gellan gum, xanthan gum, carrageenan and cellulose gum products are used for texturizing, stabilization and suspension in a range of foods, beverages and other products.

www.cpkelco.com



Exhibition Partner

Diversigen provides comprehensive microbiome, metagenomics, host genetic services, customized study design, and complex data analysis – all focused on solutions to improve human and animal health, environmental conditions, and agriculture production worldwide.

www.diversigen.com

A limited number of partnership packages are still available. For more information, please contact:



Adam Haras-Gummer

Partnerships Director

partner@microbiome-movement.com

+44 203 141 8727

SECURE YOUR PASS

TOP 3 REASONS TO ATTEND

1 **SAVE** valuable resources by learning how cutting-edge companies are tackling the basic, clinical and practical challenges of developing microbiome-targeted solutions for the food and nutrition industry

2 **GAIN** first-hand insights from world leading researchers who are helping define the future of food research

3 **FORM** lasting connections by engaging with colleagues from the food and nutrition industry looking to develop microbiome-targeted solutions in an intimate environment

Industry Pricing	Register & Pay by Friday, July 19	Standard Pricing
Gold: Conference + Workshop Day	\$2398 (save \$500)	\$2798 (save \$100)
Silver: Conference Only	\$1599 (save \$400)	\$1999
Bronze: Workshop Day		\$899

Start Up & Academic Pricing	Register & Pay by Friday, July 19	Standard Pricing
Gold: Conference + Workshop Day	\$1598 (save \$500)	\$1998 (save \$100)
Silver: Conference Only	\$1099 (save \$400)	\$1499
Bronze: Workshop Day		\$899

GROUP DISCOUNTS

Maximize value for money using special team discounts:

10% discount – 2+ delegates

15% discount – 3+ delegates

20% discount – 4+ delegates

Discounts cannot be used in conjunction with any other offer or discount. Only one discount offer may be applied to the current pricing rate.

START-UP & ACADEMIC RATES

Start-up and academic rates are subject to organizer approval. Please visit event website for further details, or email: register@hansonwade.com to apply

Revere Hotel Boston Common

200 Stuart Street

Boston

MA 02116, US

www.reverehotel.com

TERMS AND CONDITIONS

Full payment is due on registration. Cancellation and Substitution Policy: Cancellations must be received in writing. If the cancellation is received more than 14 days before the conference attendees will receive a full credit to a future conference. Cancellations received 14 days or less (including the fourteenth day) prior to the conference will be liable for the full fee. A substitution from the same organization can be made at any time.

Changes to Conference & Agenda: Hanson Wade reserves the right to postpone or cancel an event, to change the location or alter the advertised speakers. Hanson Wade is not responsible for any loss or damage or costs incurred as a result of substitution, alteration, postponement or cancellation of an event for any reason and including causes beyond its control including without limitation, acts of God, natural disasters, sabotage, accident, trade or industrial disputes, terrorism or hostilities.

Data Protection: The personal information shown and/or provided by you will be held in a database. It may be used to keep you up to date with developments in your industry. Sometimes your details may be obtained or made available to third parties for marketing purposes. If you do not wish your details to be used for this purpose, please write to: Database Manager, Hanson Wade, Suite A, 6 Honduras Street, London EC1Y 0TH

Event Code: 13065

3 Ways To Book



www.microbiome-nutrition.com



Tel: +1 617 455 4188



Email: register@hansonwade.com