



GIELLEPI

HEALTH SCIENCE ACADEMY



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Human Microbiome and Probiotics: are we ready for?



June 16th, 2017 | 9.00 – 16.00

Via B. Cellini, 37 - 20851 Lissone (MB)

Giellepi SpA

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- 9.00 – 9.30 Registration and Welcome coffee
- 9.30 – 10.00 **Human microbiome: a dynamic interplay with the host from birth to senescence.**
Francesco De Seta - Assistant Professor of Obstetrics and Gynaecology at the University of Trieste - IRCCS B. Garofolo, Italy
- 10.00 – 10.30 **The global probiotic market – market trends and consumer insights.**
Ole Danielsen - Global Marketing Director, Dietary Supplements – DuPont Nutrition & Health, Denmark
- 10.30 – 11.00 **Gut microbiota, hormones and gender: cardio-metabolic implications.**
Silvia Maffei – Cardiovascular and Gynaecological Endocrinology “G. Monasterio” Foundation, CNR-Regione Toscana, Pisa, Italy
- 11.00 – 11.30 Coffee break
- 11.30 – 12.00 **Development of new probiotic strategies in gastroenterology.**
Pierre Desreumaux – Professor of Gastroenterology, Director of Lille inflammation Research International Center (LIRIC), Lille University and Hospital, INSERM, France
- 12.00 – 12.30 **Gut microbiota and chronic intestinal disorders.**
Antonio Di Sabatino – Professor of Internal Medicine, University of Pavia, San Matteo Hospital Foundation, Pavia, Italy
- 12.30 – 13.00 Discussion
- 13.00 – 14.00 Lunch
- 14.00 – 14.30 **The role of probiotic supplementation in the prevention of common cold.**
Sinikka Latvala – Scientist, DuPont Nutrition & Health, Finland
- 14.30 – 15.00 **Gut - brain axis: biochemical implications.**
Benvenuto Cestaro - Professor of Biological Chemistry and Biochemistry of Nutrition, University of Milan - Faculty of Medicine, Italy
- 15.00 – 15.30 Discussion
- 15.30 – 16.00 Conclusion
Carlo Terruzzi – Giellepi Managing Director

We are not just a single individual walking the planet: we are a walking ecosystem with different environments. As such, many microorganisms live in tight contact with our body. These communities are composed of bacteria, fungi and viruses, which are predominantly in the gastrointestinal tract, but also in other exposed tissues, such as the skin, oral cavity, upper respiratory tract and urogenital tract. Recent scientific evidence displayed that tissues once considered sterile, such as the brain, also harbor unique bacterial communities.

These microorganisms represent a dynamic ecosystem, which evolves throughout human lifetime from the birth to the senescence. They are generally not harmful; in fact, they are essential for maintaining health and ensure the homeostasis with opportunistic disease-causing microbes. An ever-growing number of studies demonstrated that changes in the composition of our microbiome correlate with numerous diseases, raising the possibility that manipulation of these communities may be a promising strategy to offer effective therapies for a large range of conditions and for preserving human health.

Many researchers consider the human microbiome as a functional organ able to influence the activities of the other tissues. It is well known the deep relationship between gut microbiota and nervous central system (so called gut-brain axis). More recently, a new concept is spreading among the scientists and stakeholders regarding the gut-vagina axis due to the huge evidence supporting the hypothesis that the gut acts as extravaginal reservoir of vaginal bacteria, including some lactobacilli strains which are needed to ensure the homeostasis of healthy vaginal microorganisms.

Research on the human microbiome is very young but it is advancing rapidly. Metagenomics has provided a new insight on the comprehensive examination of microbial communities and their characterization, allowing an exciting potential for individual and public health.

The aim of this first Workshop held by **GIELLEPI HEALTH SCIENCE ACADEMY** is to provide new insights into human microbiome, trying to understand the correlation with other organs and suggest novel strategies to improve human health.