

# 2<sup>nd</sup> Annual Congress on Antibiotics and Bacterial Infections

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### Microbiome/immunity in era of resistance

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Microbiome is composed from 100.000 miliards of bacterias and its weight is around 2 kg. It forms protective barrier against pathogens (permeability) and interactive layer with inner host immune system and neuroendocrine system.

It does play important role in development (training of host immune response), human and reproductive health and need to be consider in diagnostic and prevention of diseases.

It is a complex and diverse bacterial community specific to each individual crucial for human health. It is involved in immune mediated response and evolution of various diseases such us metabolic ones (diabetes,obesity), inflammatory diseases, (inflammatory bowel diseases), neurodegenerative diseases , psychiatric/behavioral disorders, respiratory diseases (allergy & asthma), cystic fibrosis (measurable changes in gut microbiome functionality occur in CF patients compared to controls), aging, response to cancer treatment, lipid metabolism.

The gut healthy microbiome is able to convert lipids, including fatty acids or cholesterol, leading to the production of metabolites with potential health effects.

### Biography

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Medical and Scientific Consultant, Partnership Science and Research for Health & Preventive medicine. French Medical professional specialized in Internal medicine, Infectious and Tropical (Neglected) diseases, Internal medicine, certified in Immunology, Peditry and Public health and diplomacy in Switzerland (IHEAD),Vaccinology and years of Clinical/Medical practise.Lived mufti-country medical “field “experience in Southeast Asia and Pacific, West/Central/East Europe and Middle East.Over 12 years of experience as senior medical lead in pharmaceutical research and development for European and USA companies and as a medical and scientific consultant for partnership in health.

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