

## Health, nutrition/metabolic syndrome (diabetes) and intestinal microbiota, immunity and vaccine?

Around 415 million people around the world have diabetes (9% of adults), and the vast majority live in low- and middle-income countries. Over the next decade, this number is predicted to increase to 643

million people. Given that diabetes is a major cause of mortality, morbidity, and health care expenditures, addressing this chronic disease represents one of the greatest global health challenges of our time. Type 3

diabetes (which makes up 87-91% of the total diabetes burden), both in terms of prevalence and incidence

and prediabetic metabolic syndrome malnutrition (hunger) and astonishing, with obesity which represent

risk factor of adapted host responses and predisposition for several infectious and non-infectious diseases

are still on the list of Public health issues. By the way given immune mediated link clear risk factor for

Microbiota under 3 years old fluctuates and is more impressionable to environmental factors than the

adult microbiota. Lifestyle where nutrition plays one of key factors along with sanitization, caesarean

sections, inappropriate antibiotic usage, immunizations. There are several paediatric diseases associated

with alterations of the intestinal microbiota like Atopy and Asthma, Obesity, Diabetes, Inflammatory

bowel diseases and Neurodegenerative diseases. There is a raising evidence concerning infectious

and tropical disease microbiota immune mediated response. Breastfeeding, introduction of solid food,

regional lifestyle and diet (geography) are factors influencing gut microbiota. Regardless of the origin of

gut associated commensals, a number of studies have attempted to identify the mechanism by which

breastfeeding promotes overall immune health via entero- mammary pathway. Early life changes in

microbiota composition can alter susceptibility to developing obesity later in life. Many studies shown

presence/absence of specific microbes can modulate and program life-long changes in immunity and

Research showed that impact of diet and environmental change stresses on the host can be passed on

maternally to children through epigenetic modulation of the DNA by methylation. Thus, maternal dietary

and microbial exposures are also crucial to the development of the microbiota early in life as children may

inherit genes with differing potential for predisposition for malnutrition or obesity, based on the diet of

further clinical study might help understand exact paths on metabolic disease progression.

COVID 19 identified by several studies (eg Discovery in Europe).

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Abstract

their mother.



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## Biography

Ivana Haluskova Balter, MD, France Scientific and medical advisor, Partnership Science and Research for Health & Preventive medicine French Medical professional specialised in infectious and Tropical (Neglected) diseases, Internal medicine, certified in Immunology, Pediatry and Public health and diplomacy in Switzerland (IHEID), Vaccines and years of Clinical/Medical practise. Lived multi-country medical "field" experience in Southeast Asia, West/Central/East Europe and Middle East. Speaking French, English, Italian, Russian, Czech/Slovak. Over 13 years of experience as advisor and senior medical lead in pharmaceutical research and development for European and USA companies within various therapeutic covering complex international projects. Active member academia ( World alliance against antibiotic resistance and French immunology society administrative boards) and speaker at various international congresses. Supporting research and cooperation around Microbiota/Immunity. Focus on better understanding of host immune system - pathogen-microbiota interactions for adapted diagnostic, prevention and interventions Fostering research to tackle current issue of "resistance" to treatment (antivirals, antiinfectives, antiparasitic drugs) integratiing surveillance data and population variabilities(genetics, immunology and microbiology).

<u>3<sup>rd</sup> Global experts meet on Advanced Technologies in Diabetes Research and Therapy</u> | November 02-03, 2020

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