The spectacular role of the human microbiome and spore probiotics in preventing metabolic endotoxemia, the number one cause of mortality worldwide

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You are more bacteria than you are human with 10 trillion human cells outnumbered by over 100 trillion bacteria cells in and on your body. The human genome contributes just 1% genetic material to daily metabolic function compared to the 99% that is contributed by the microbiome. An often-overlooked role of the microbiome is to prevent metabolic endotoxemia and the inflammatory devastation that follows. Approximately 50% of the western population suffers from metabolic endotoxemia, which can remain sub-clinical for decades. The condition is characterized by increased serum endotoxin concentration during the first five hours of the post-prandial period. This increase in serum endotoxin concentration then triggers systemic inflammation resulting in elevated interleukin-6, interleukin-1-alpha, interferon-gamma, triglycerides and post-prandial insulin levels. Many of these critical markers have been shown to be at the root cause of a variety of chronic diseases. Current studies demonstrate a strong correlation between metabolic endotoxemia (ME) and the risk or onset of conditions like cardiovascular disease, diabetes, obesity, hypogonadism, autoimmunity and even mood disorders such as anxiety and depression. This condition is caused by a failure of the microbiome to protect its host while processing food. The lecture will illustrate the danger of having metabolic endotoxemia and why this condition is being called the number one cause of mortality worldwide as it sets up the body for virtually every chronic disease. The lecture will explain the role of the microbiome in protecting its host against ME and will share clinical strategies to prevent ME and reverse existing conditions associated with ME. You cannot completely correct any chronic condition without addressing metabolic endotoxemia.

Biography
Kiran Krishnan is a Research Microbiologist and has been involved in the dietary supplement and nutrition market for the past 18 years. He comes from a strict research background having spent several years with hands-on R&D in the fields of molecular medicine and microbiology at the University of Iowa. He established a Clinical Research Organization where he designed and conducted dozens of human clinical trials in human nutrition. He is also a co-founder and partner in Nu Science Trading, LLC. a nutritional technology development and research company. He is also a co-founder and Chief Scientific Officer at Microbiome Labs. In his career, he has developed over 50 private label nutritional products for small to large brands in the global market. He is a frequent lecturer on the Human Microbiome at Medical and Nutrition Conferences. He conducts a very popular Microbiome Series educational Webinar, is an expert guest on National and Satellite radio, has appeared in several international documentaries and has been a guest speaker on several International Health Summits as a microbiome expert. He is currently involved in 10 novel human clinical trials on probiotics and the human microbiome. He is also on the Scientific Advisory Board or a Science Advisor for 7 other companies in the industry.

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