Vaccine Development against Methanogens Symposium

Monday 11 August : 09h00-10h30
Park Suite 7 & 8

About 40% of the world's anthropogenic methane emissions come from agriculture, and 70% of that is due to enteric fermentation. This process happens in cows' digestive systems when sugars are broken down into short chain fatty acids and methane, which is released through belching. This symposium will cover the research supported by the Bezos Earth Fund and Global Methane Hub to understand how to develop a vaccine against the methane producing organisms in the rumen. The advantage of a vaccine for reducing methane is that it could be used in all types of production systems as part of routine management practice.

09h00 **Welcome and Introduction** – *Prof. Paul Wood (Chair)*

09h05 **Understanding the mechanism of immunity required for the development of a vaccine to reduce methane production**
Prof. John Hammond, Pirbright Institute (United Kingdom)

09h20 **Co-development of the rumen microbiome and immune system**
Prof. Dr Dirk Werling, Royal Vet College (United Kingdom)

09h35 **The challenges and progress in target selection for a methanogen vaccine** – *Dr Neil Wedlock, Lucidome Bio/AgResearch (New Zealand)*

09h50 **Induction of a sustained antibody response to methanogen antigens**
Dr Georgia Deliyannis, Melbourne University (Australia)

10h05 Panel Discussion

10h30 Close of Session

https://www.globalmethanehub.org/