

The first coordinated approach to methane mitigation funding, focussing on the energy, agricultural, and waste sectors which account for 96% of human-caused methane emissions. The Global Methane Hub will contribute to reducing global methane emissions 35% by 2030 and 50% by 2050, on a baseline of 2010 levels.



Raise prominence of methane



Steer public and private finance towards methane mitigation



Accelerate methane policy at the global level to support and accelerate national action



Tracking emissions with greater transparency and access to data



ENTERIC FERMENTATION R&D ACCELERATOR

ENTERIC METHANE CONTRIBUTION TO GLOBAL AND FOOD SYSTEM METHANE



¹Saunois et. al 2020: Total anthropogenic emissions are based on estimates of a full anthropogenic inventory and not on the sum of the "agriculture and waste", "fossil fuels", and "biofuel and biomass burning" categories due to methodology of adding different inventories. IPCC AR6 WGIII (2022). Available at: <u>https://www.ipcc.ch/report/ar6/</u>

²Hegarty RS, Cortez Passetti RA, Dittmer KM, Wang Y, Shelton S, Emmet-Booth J, Wollenberg E, McAllister T, Leahy S, Beauchemin K, Gurwick N. 2021. An evaluation of emerging feed additives to reduce methane emissions from livestock. Edition 1. A report coordinated by Climate Change, Agriculture and Food Security (CCAFS) and the New Zealand Agricultural Greenhouse Gas Research Centre (NZAGRC) initiative of the Global Research Alliance (GRA).

ENTERIC FERMENTATION R&D ACCELERATOR

The largest-ever, globally coordinated public-good investment in breakthrough research tackling livestock methane emissions.



ENTERIC FERMENTATION R&D ACCELERATOR HOW WE'RE APPROACHING IT

01	02	03	04
Establishing the "state of the science" and identifying gaps	Undertaking an assessment of the current research landscape and associated research infrastructure	Identifying and articulating short- and medium-term research outputs What would constitute accelerated progress?	Designing a research strategy that is fit for purpose How do we get where we want to be as quickly and cost-effectively as possible?

It's a crowd-sourced exercise, guided by our Science Oversight Committee

SCIENCE OVERSIGHT COMMITTEE

Independent, distinguished, multidisciplinary



Dr. Robert Banks



Dr. Karen Beauchemin



Dr. Margaret Gill



Dr. Sinead Leahy



Dr. Rolf Thauer



Dr. Paul Wood

ENTERIC FERMENTATION R&D ACCELERATOR ALREADY UNDERWAY

Long-term trials of feed additives

01

What are already planned, which compounds, species, duration, diets, etc. what are gaps? what are infrastructure needs?

Genetic/genomic selection for low methane

02

Phenotyping, genotyping, data sharing, priority species and breed

Genetic convening (virtual) held on August 22

Methane Vaccine

03

Methane Vaccine Convening in Dubai held on September 6-8, with BMGF support.

Rumen Microbiome

04

"Most wanted list", H2/electron transfer, early life host/microbiome development

Rumen Micro Convening (virtual) held on October 10

Inventory of enteric methane measurement equipment installed capacity + availability

05

Identification of gaps and bottlenecks, e.g., low-cost, robust measurement approach for grazing systems

LAUNCHED AT COP28, UAE

OPPORTUNITIES BUILD ON EXISTING EFFORTS





ACCELERATOR ALREADY FUNDED AREAS



Microbiome characterization



Low methane genetics



Low-cost measurement technology for grazing livestock



Anti-methanogenic forage screening



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Microbiome characterization

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