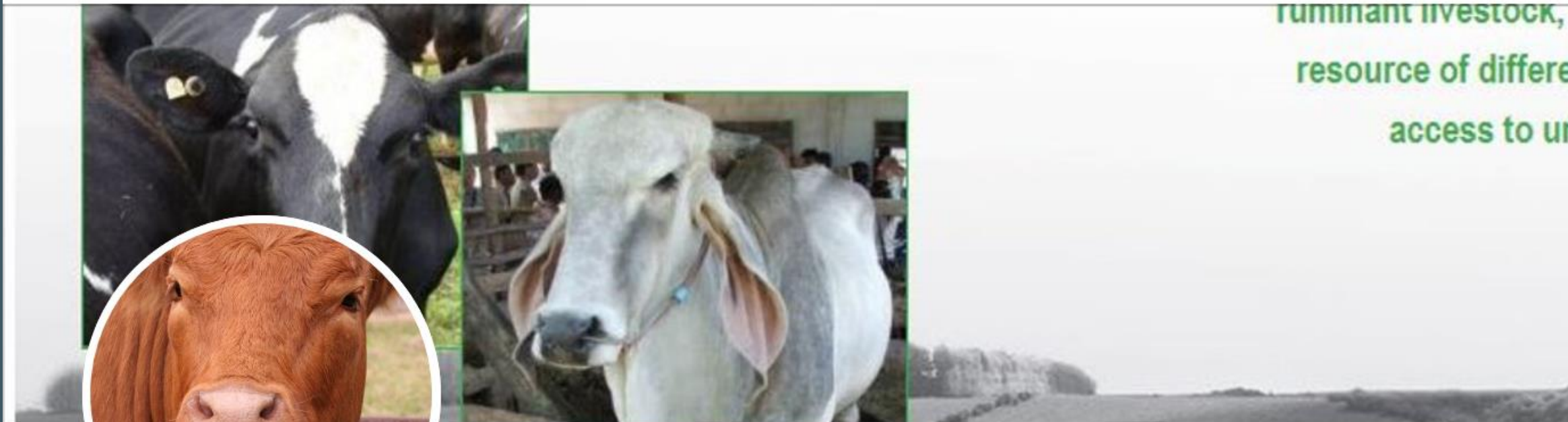


# Enteric Fermentation Flagship Project: Rumen microbiomes to predict methane

## Animal Selection Genetics & Genomics Network

### Suzanne Rowe





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## Animal Selection, Genetics and Genomics Network

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ASGGN is a forum for scientists exploring

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**Animal Selection, Genetics and Genomics Netwo...** @ASGGN\_G... · Aug 1

Interested in [#AnimalSelection](#), [#Genomics](#), [#Genetics](#), [#FeedEfficiency](#), [#Methane](#) and [#Microbiome](#)? Are you going to the [#EAAP](#)? Join us for our network meeting in Ghent on the 25th of August, 12.30 to 17.30. We start with

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

## ANIMAL SELECTION, GENETICS &amp; GENOMICS NETWORK

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## About Us

## Networks

Animal Health &  
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NetworkAnimal Selection,  
Genetics & Genomics  
Network

Feed &amp; Nutrition Network

Manure Management  
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Using genetics to mitigate CH<sub>4</sub> emissions from ruminant livestock, requires a significant animal resource of different breeds and species, and access to unique scientific skills.

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## INTRODUCING THE ASGGN

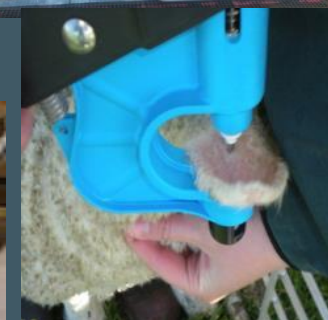
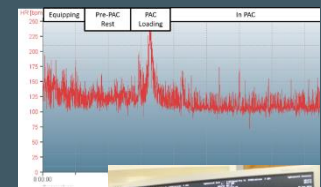
## LATEST NEWS

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SUMMARY OF ASGGN &amp; LRG SATELLITE

# Genetics to mitigate methane

- Bringing together scientists
- Identification of new collaborations and connections
- Defining traits and breeding objectives
- Establishing the heritability of methane emissions and its genetic associations with other performance traits
- Sharing data, methods & protocols for prediction



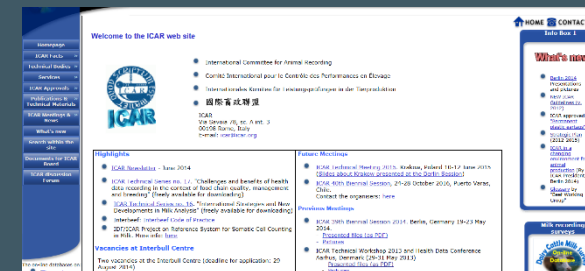
# Achievements

- **Consensus methods for breeding low methane emitting animals**

N. K. Pickering, Y. de Haas, J. Basarab, K. Cammack, B. Hayes, R. S. Hegarty, J. Lassen, J. C. McEwan, S. Miller, C. S. Pinares-Patiño, G. Shackell, P. Vercoe and V. H. Oddy

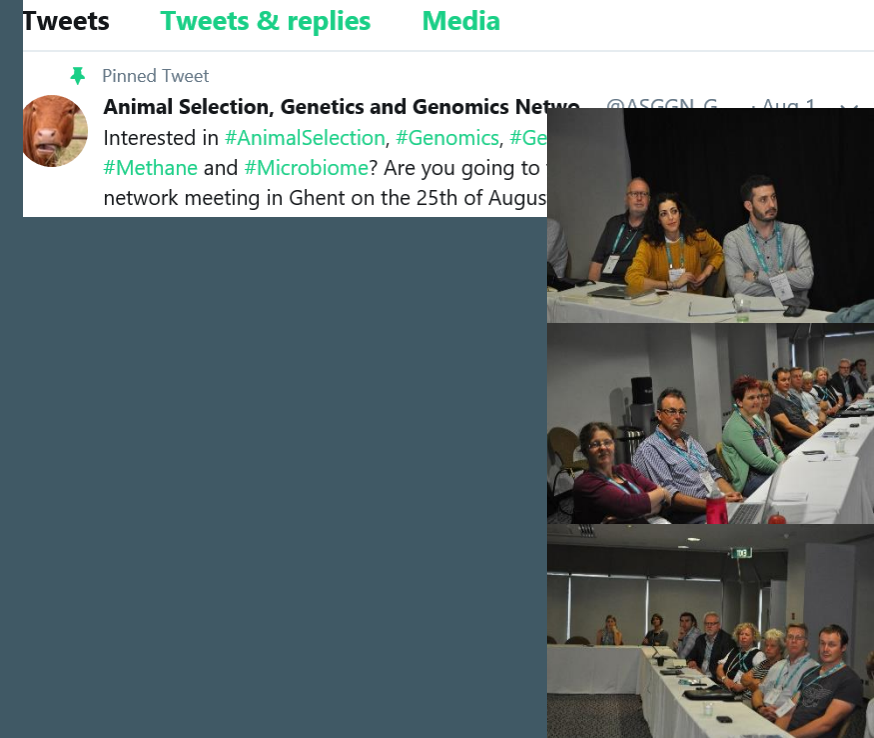
- **International committee for animal recording – trait definitions and working group**

- Methane production - grams/day
- Methane yield per kg dry matter intake
- Methane intensity per unit product (e.g., milk, meat, human edible protein)
- Proxies – CO<sub>2</sub>, Volatile fatty acids, MIRS
- **Meta data**



# Activities 2018/19

- WCGALP meeting 2018
- Funding alliances
  - NZ ,Uruguay, Ireland, Scotland, Tunisia, Norway, Argentina
  - Gas 2 Grass Era-Net funding
- Social Media/Communication platform
- Disseminate flagship protocols and announcements



# Planned Activities

- ASGGN meeting - *Breeding for sustainable, efficient, environmentally friendly livestock: paths to animal production of the future*, Sunday 25<sup>th</sup> of August, 2019, 12.30 – 17.30 , Banquet room at ICC, Ghent, Belgium
- A permanent workshop at a major conference or appropriate joint network – *Plant and Animal Genome Conference*
- Funding for attendance for developing countries



# Workshops

- WCGALP Vancouver 2014 - Methane measures and feed efficiency
- GGAA – Melbourne 2016 – Proxies and adaptation
- WCGALP 2018 – Feed Efficiency, Methane, Microbiomes
- EAAP – Ghent 2019

