



GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

**CROPLANDS RESEARCH GROUP:  
Canada**



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## Canadian Update

### ■ *Funding Initiatives*

Federal Studies: International Funding Initiative (2017-2020)

- \$190,000 provided to existing Canadian (AAFC) research projects to support collaboration with the GRA

Universities: Agricultural GHG Gases Program 2 (2016-2021)

- A \$27 million, five-year program supports non-government research projects aimed at enhancing the understanding and accessibility of agricultural technologies, BMP's and processes that can be adopted by farmers to mitigate agr. GHG emissions
- Total of 20 research projects, 15 related to the work of the CRG and its Research Networks.

# Activities/Accomplishment since last meeting

- AAFC 2018-2019 call for projects identified the GRA as an international science co-operation priority:
  - Ten research projects related to the work of the CRG and its Research Networks
  - Two projects identify direct linkages to GRA and the CRG

## ***Field/Regions Studies***

- *Resilient Crop-Livestock Systems (Martin Chantigny)*
- Legumes effect on soil C and N dynamics (Louis-Pierre Comeau)
- Resilient crop diversification (Craig Drury)
- Biological soil carbon stabilization (Ed Gregorich)
- Managing the rhizosphere for soil health (Henry Janzen)
- Impact of inhibitors on N<sub>2</sub>O emissions (Elizabeth Patty)
- Soil microbiomes and agri-resilience (Lori Philips)



## *Spatial, Temporal & Modelling Studies*

- Anthropogenic Soil Change (Ben Ellert)
- Mitigating GHG with remote sensing (Louis Longchamps)
- Modelling to identify resilient BMPs (Ward Smith)