



GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

CROPLANDS RESEARCH GROUP: Brazil Update

CRG representatives:

Ladislau Martin-Neto- Embrapa Instrumentation

Co-chair CRG

Renato A. Rodrigues – Embrapa Headquarter

Robert Boddey- Embrapa Agrobiology

Beata Madari- Embrapa Rice and Bean

AUGUST 12-17, 2018 BRAZIL



CROPLAND RESEARCH GROUP MEETING AUGUST 11, 2018

Embrapa Soils, Rio de Janeiro, Brazil

**MAJOR ON-GOING RESEARCH
PROJECTS ON CLIMATE
CHANGE AND ASSOCIATION
WITH CROPLANDS RESEARCH
GROUP**



Emission of Greenhouse Gases and Carbon
Balance in Grain Production Systems in Brazil
Leader: Beata Madari- Embrapa Rice and Beans

Greenhouse Gases (GHG) dynamics in Brazilian Livestock Production Systems (Pecus)

**Leader: Patricia
Anchão
Embrapa Southeast
Livestock**





Rede **Clima**

Mudanças Ambientais
Globais no Brasil

**Brazilian Research Network
on Global Climate Change**



Ministério da
**Ciência, Tecnologia
e Inovação**

CROPLANDS RESEARCH GROUP

GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES



RESEARCH PROJECT:

**Strategic practices for mitigating greenhouse gas emissions in
grassland systems of the Brazilian Southeast**

Principal Investigator: Paulo Henrique Mazza Rodrigues, Ph.D.

Support Modality: Thematic Project

**Research Call: FAPESP Program for Research in Global Climatic Changes
(PFPMCG) – “Climatic Changes: Adaptation and Mitigation”**

CROPLANDS RESEARCH GROUP

GLOBAL
RESEARCH
ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

Rothamsted Research: Embrapa Joint Initiative
The Alliance for Sustainable Agriculture (ASA)
Sustainable farming and Smart crop protection Sandpit Workshop
5-6th December 2017
Embrapa Instrumentation

Group 1- Smart Crop Protection

Bart Fraaije	RRes
Kevin King	RRes
Maurício Meyer	CNPAF
Murillo Lobo	CNPSO
Flavio Santana	CNPT
David Withall	RRes
John Caulfield	RRes
Daniel Carrea	CNPDI
Paulo Herrmann	CNPDI
Raul Laumann	Cenargen
Carol Blassioli	Cenargen
Debora Milori	CNPDI

Group 2- Soils and Sustainable Systems

Martin Blackwell	RRes
Alberto Bernardi	CPPSE
Patrícia Oliveira	CPPSE
José Pezzopane	CPPSE
Renato Ribeiro	CNPS
Andy Neal	RRes
Xiaoxian Zhang	RRes
Stephan Haefele	RRes
Ladislau Martin Neto	CNPDI
Ricardo Inamasu	CNPDI
Carlos Vaz	CNPDI
Debora Milori	CNPDI
Sylvia de Sousa Tinoco	CNPMS

Forum: Opportunities of carbon pricing in agricultural sector & Workshop: Tools for Carbon Monitoring in Agriculture



PROJETO DE EVENTO

Fórum "*Oportunidades de precificação de carbono no setor agropecuário*"

&

Workshop "*Ferramentas de monitoramento de carbono na agropecuária*"

27 e 28 de fevereiro de 2018

Local

Auditório do Sistema Famasul

Rua Marcino dos Santos, 401, Chácara Cachoeira, Campo Grande, MS

Público Alvo


Representantes de órgãos governamentais e do setor empresarial, além de pesquisadores e especialistas que atuam no tema, mediante convite individual.



PAINEL PLANETA SOLO:

conexões do presente, desafios do futuro.

 **09/08/2018**

 9h30 às 12h

 Auditório Sergio Mascarenhas - Embrapa Instrumentação

Abertura e boas vindas

João Nalme - Chefe Geral Embrapa Instrumentação

Rui Machado - Chefe Geral Embrapa Pecuária Sudeste

Apresentação 1

"O papel fundamental dos solos e as tecnologias disruptivas para uma agricultura sustentável" - 45 min

Charles Rice – Professor da Kansas State University (EUA)

Apresentação 2

"Experimentos de longo prazo em Sistemas Integrados de Produção" - 30 min

Alberto Bernardi – Pesquisador da Embrapa Pecuária Sudeste

Apresentação 3

"Métodos Espectroscópicos e Fotônica em estudos de matéria orgânica de solos tropicais" - 30 min

Ladislau Martin Neto – Pesquisador da Embrapa Instrumentação

Moderação

Débora Milori

Pesquisadora e Chefe adjunta de Transferência de Tecnologia da Embrapa Instrumentação

Interações e perguntas – 30 min

**Soil's fundamental role and
disruptive technologies for
sustainable agriculture**

**Long-term experiments with
integrated production systems**

**Spectroscopics and
Photonics Methods in
Tropical Soil Organic Matter
Research**

Multi-institutional Lab for Low Carbon Agriculture (ABC) Plan Monitoring

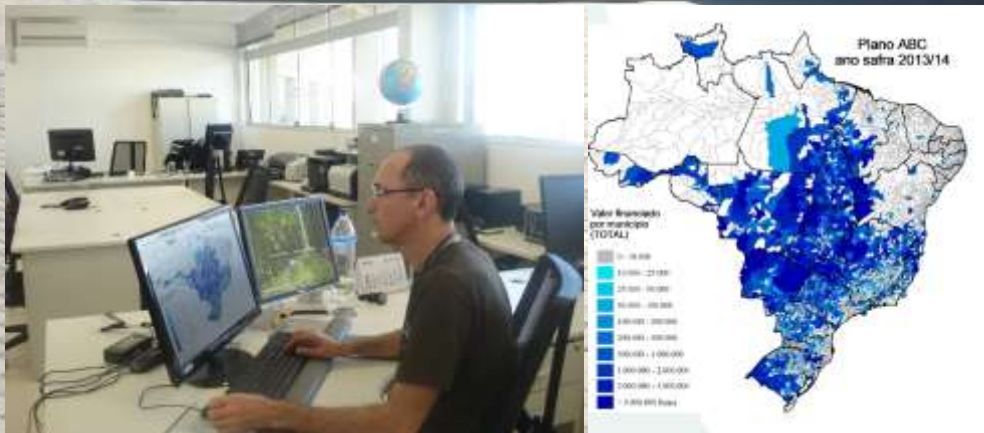
Location: Embrapa Environment- Jaguariúna-SP

Ministry of
Environment

Ministry of Agrarian
Development

Ministry of Science &
Technology

Ministry of Agriculture,
Livestock and Food Supply



Flagships:

1- Sustainable intensification of livestock systems with legumes: Latin American and Caribbean cooperation platform (2018-2020).

Countries: Argentina, Brazil, Chile, Ecuador, Nicaragua, Paraguay, Dominican Republic, Uruguay

Main activities:BNF by legumes in grazed livestock systems, impact of soil Carbon, GHG (N₂O and CH₄) emissions

Funding: PROCISUR, FONTAGRO, New Zealand gov.

2- Soil Carbon Sequestration

Countries: 24

Joint Project Call

SPRINT Call for Proposals - 3rd Edition/2018

Public Call for Proposals offering seed funding to support the exchange of researchers under **FAPESP's** program **São Paulo Researchers in International Collaboration** (**SPRINT**)

Submission Deadline: October 29, 2018

- a) [Cardiff University](#), Wales
- b) [Carleton University](#), Canada
- c) [Cognitive Science and Technology Council of Iran \(CSTC\)](#), Iran
- d) [Fonds de la Recherche Scientifique \(FNRS\)](#), Belgium
- e) [Imperial College London](#), England
- f) [Queen's University of Belfast](#), England
- g) [Swinburne University of Technology](#), Australia
- h) [Texas A&M University](#), United States
- i) [University of Missouri](#), United States
- j) [University of Münster](#), Germany
- k) [University of Nebraska – Lincoln](#), United States
- l) [University of Bath](#), England
- m) [University of Surrey](#), England
- n) [University of Toronto](#), Canada

Visitor Researcher Program- FAPESP

GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

The Visiting Researcher Program offers full or partial support for the hosting of experienced investigators, associated with foreign research institutions, who will work in a research institution in the State of São Paulo for a period from 2 weeks to a maximum (non-extendable) period of 12 months. The visiting researcher must hold PhD degree and have an outstanding record of scientific accomplishments.

www.fapesp.br/en

CROPLANDS RESEARCH GROUP

GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES



AUGUST 12-17, 2018 BRAZIL

Soil science:
beyond food and fuel

www.21wcsc.org

WELCOME TO



Thank you very much for attention!

Ladislau.martin@embrapa.br