



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



INTERNATIONAL YEAR OF
PLANT HEALTH

2020

PROTECTING PLANTS,
PROTECTING LIFE

**FAW PREPAREDNESS &
MANAGEMENT SOLUTIONS –
ACADEMIC PARTNERSHIPS**

DR WEE TEK TAY, CSIRO

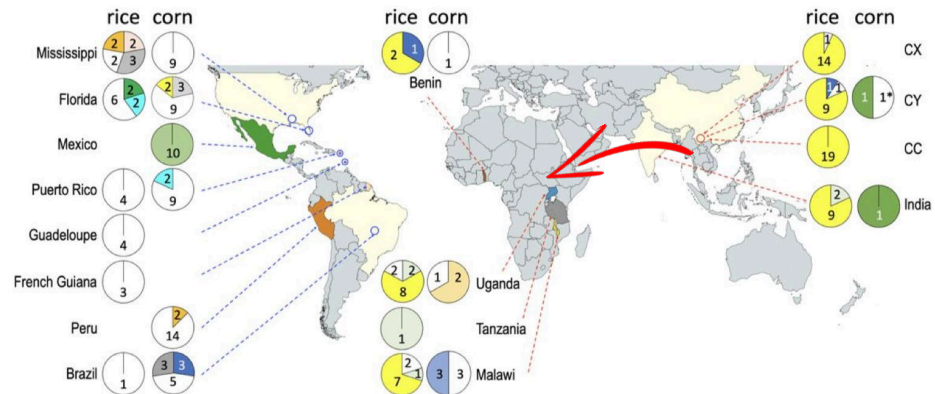
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www.fao.org/plant-health-2020

Academia Interactions

- An important sector of scientific breakthrough and intellectual resources to address global challenges
- Global FAW genomic signatures to assess biosecurity preparedness
 - Multiple introductions in Africa & Asia based on genomic evidence
 - Movements of FAW from Asia into Africa

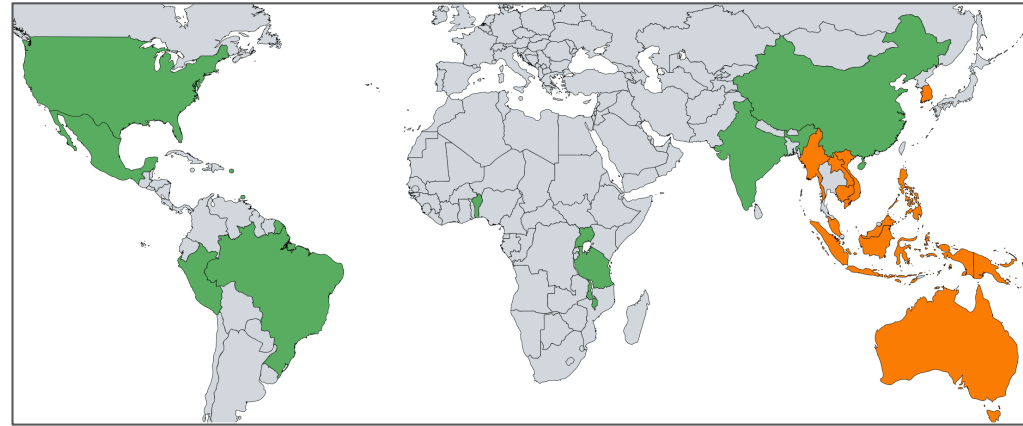
- Brazil - Federal University of Goiás (UFG)
- France - University of Montpellier/INRAE
- China - Nanjing Agricultural University
- U.K. - University of Cambridge
- Uganda – National Crop Resource Research Institute (NaCRRI)





Insecticide Resistance & Genome Diversity

- S.E. Asia FAW
- Conventional & biopesticides
- Invasive population origins
- Introduction pathways
- Philippines (De La Salle Univ.)
- Indonesia (Univ. Gadjah Mada)
- PNG (New Britain Palm Oil Ltd)
- Malaysia (CABI S.E. Asia)
- Vietnam (Plant Protection Research Inst)
- Lao PDR (Plant Protection Center, DoA)
- Cambodia (CARDI)
- Myanmar (Dept Agricultural Research)



GRDC
GRAINS RESEARCH & DEVELOPMENT CORPORATION

CSIRO

NSW
GOVERNMENT | Department of Primary Industries

National
MEDIA RELEASE

December 3, 2020

Early research to guide insecticide use for fall armyworm

Environmentally responsible management solutions?

- Academia collaborations (PhD scholarship)

- Macquarie University, Australia
 - Biopesticide solutions (PhD scholarship)
 - Parasitoids/Beneficial insects



- University of Queensland, Australia
 - Pest biology & adaptation to a new environment



- Federal University of Goiás, Brazil
 - Insecticide resistance and biopesticides





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Thank you for your attention



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Contact us

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Find us online

www.ippc.int

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