



MARA CHINA-CABI Joint Laboratory for Bio-safety

CHEN Julian

IPP-CAAS, Beijing, China

19 October 2018

IPP-CAAS, MARA-CABI Joint Lab for Bio-safety

Establishment of the Joint Lab in 2008

- ❑ Located at the Institute of Plant Protection of the Chinese Academy of Agricultural Sciences (IPP-CAAS), Beijing
- ❑ China's donation to CABI Development Fund to support Joint Lab, increased from US\$ 50K / year in the beginning to US\$ 400K / year in 2016
- ❑ CABI invested human resources to support the Joint Lab



Joint Lab Management Structure



Prof. Xueping Zhou
Co-Director

Steering Committee (SC)
(China 4 + CABI 4)



Co-Directors
(China 1 + CABI 1)



Liaison Secretary
(China 1 + CABI 1)



Technical Advisory Group members
(China + CABI)



Dr. Ulrich Kuhlmann
Co-Director



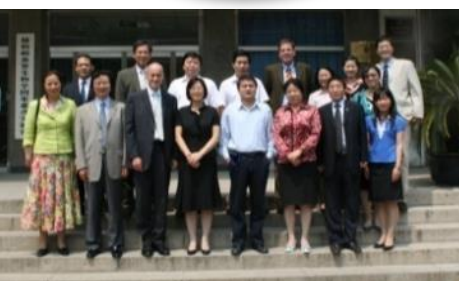
Joint Lab SC Meetings

1st
Beijing
2009

2nd
Beijing
2010

3rd
Beijing
2011

4th
Switzerland
2012

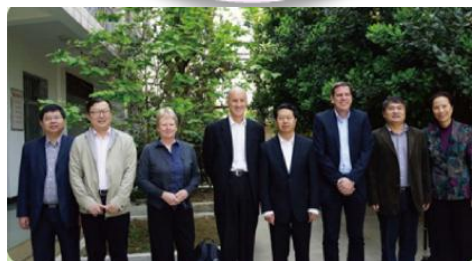


5th
Beijing
2013

6th
Dehong, Yunnan
2014

7th
Beijing
2015

8th
Beijing
2016



IPP-CAAS, MARA-CABI Joint Lab for Bio-safety

Joint Lab SC Meetings

9th
Beijing
2017

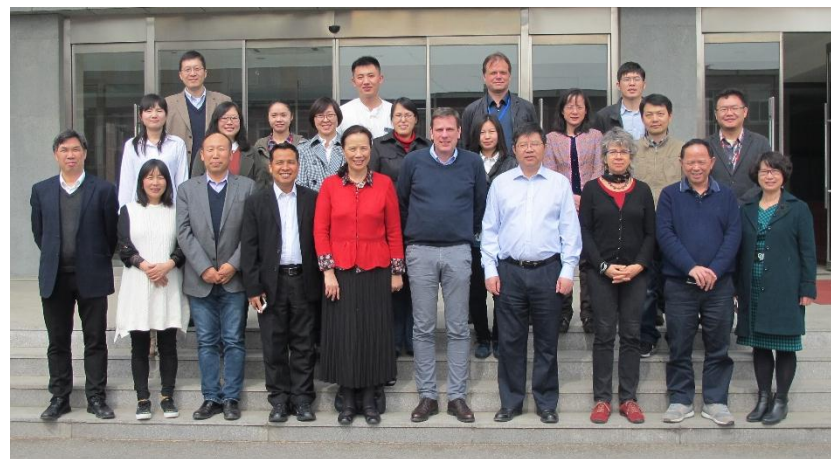
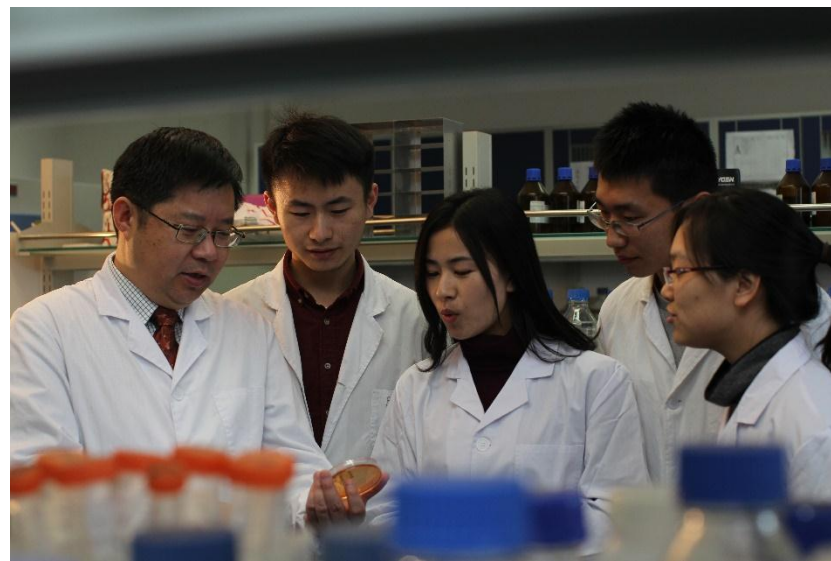
10th
Beijing
2018



IPP-CAAS, MARA-CABI Joint Lab for Bio-safety

Joint Lab Functions

- ❑ A platform for research **collaboration** and technology transfer
- ❑ A centre for **training** and scientific exchange
- ❑ An open platform for joint collaboration **with third parties**
- ❑ A **consultancy** service

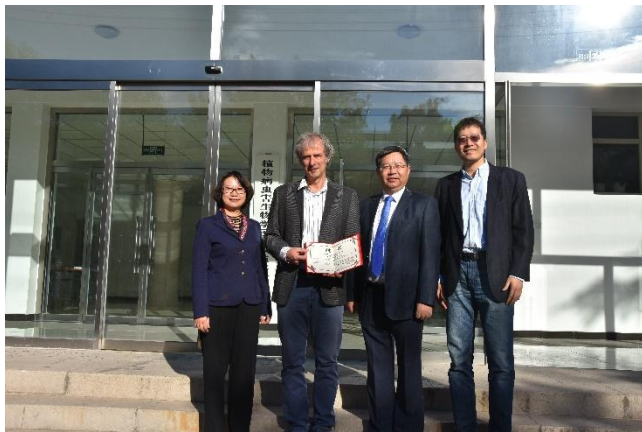


Joint Lab Themes

- ❑ Integrated Pest Management (IPM) and biological control
- ❑ Prevention and control of invasive alien species (IAS)
- ❑ Introduction and development of biopesticide resources
- ❑ GMOs environmental safety assessment



Joint Lab Research Team



Leading scientists +
Researchers +
Tech. assistants +
Graduate students



IPP-CAAS, MARA-CABI Joint Lab for Bio-safety

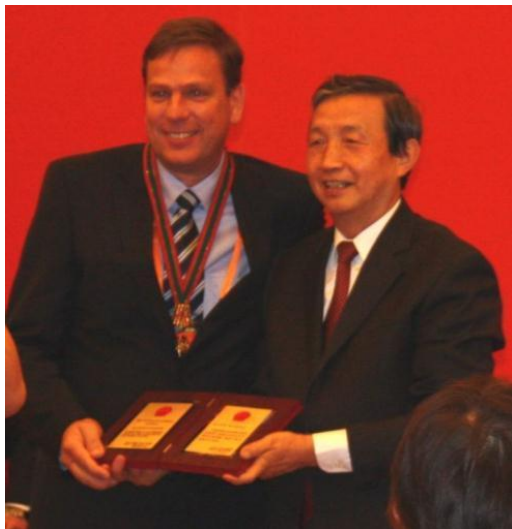
Highlights of the Joint Lab

- ❑ Prof. Wu Kongming, then Co-Director of the Joint Lab
 - ❑ Elected academician of the Chinese Academy of Engineering in 2011
 - ❑ Promoted to Vice President of the Chinese Academy of Agricultural Sciences in 2012
- ❑ Prof. Zhou Xueping, Co-Director of the Joint Lab
 - ❑ Won the Ho Leung Ho Lee Foundation **Prize** in 2017
 - ❑ Elected the **Fellow** of the American Phytopathological Society in 2018



Highlights of the Joint Laboratory

- ❑ Dr Ulrich Kuhlmann, CABI's Co-Director of the Joint Lab
 - ❑ Won a **Friendship Award** from the Chinese Government in 2012
 - ❑ Received the **International Friends Award** from the Chinese Academy of Agricultural Sciences in 2017





Activities & Achievements: Project development / implementation (2008-2018)

- ❑ **25** Research & Development projects with total funding **\$ 23.47 million** and over **70** international and Chinese partners involved
- ❑ **Research: biological control** of the most important agricultural **insect pests and weeds** causing huge economic losses to important grain and cash crops





Activities & Achievements: Project development / implementation (2008-2018)

- ❑ **Development: technology transfer** from China to other developing countries (e.g. DPR Korea, Laos, Myanmar, Rwanda, etc), contributing to global food security and poverty alleviation
- ❑ **Plantwise: 93 plant clinics** providing diagnostic of crop pests and IPM advices to smallholder farmers in four provinces of China



An example of successful technology transfer: use of **beneficial insects** in **rice** and **maize IPM**



IPP-CAAS;
Xing'an County Plant
Protection Station, Guangxi;
Dehong Prefecture Plant
Protection and Quarantine
Station, Yunnan,

Department of
Agriculture, Ministry of
Agriculture, Livestock
and Irrigation,
Myanmar



Department of
Agriculture, Ministry
of Agriculture and
Forestry,
Laos



Dryland Farming Institute,
Hengshui, China;
China



Activities and Achievements: Scientific exchanges & workshops (2008-2018)

- ❑ ca. **40** scientific exchanges per year
- ❑ **Dr Stefan Toepfer** seconded as visiting professor (2014-2016)
- ❑ **>10** international scientific conferences or workshops with some 2,300 participants from 50 countries in total, e.g. International Congress on Biological Invasions, Radar Entomology Workshop, OBOR Consultation Workshop, etc
- ❑ **26** oral presentations delivered





Activities and Achievements: Capacity Building (2008-2019)

- ❑ **>50 south-south IPM techniques training courses** with
 - ❑ over **1000** technicians from developing countries were trained
- ❑ **Two courses : Statistic and IPM** at Graduate School of CAAS
 - ❑ around **291** young scientists and graduate students were trained





Activities and Achievements: Capacity Building (2008-2018)

- ❑ **74 joint publications** in total, incl. 18 at IF > 2 in SCI journals
- ❑ **3 Post-doc, 7 PhDs, 11 MSc** and **47** undergraduate students trained



Lessons Learnt: Success of the Joint Lab

- ❑ Strong and consistent support and **commitment** from senior management teams of Chinese MOA, CAAS, IPP-CAAS and CABI based on MoU
- ❑ **Financial support** from MOA and human resources invested by CABI
- ❑ Functioning **management mechanism**, good governance provided by the steering committee and consultancy role of technical advisory group
- ❑ **Dedicated staff** from both sides working on the ground
- ❑ Concerted effort for international, regional and national **funding** to support collaborative projects



Going forward

- ❑ Establishment of the MARA China-CABI European Laboratory at CABI Switzerland Centre to help the Joint Lab achieve greater globalisation and innovative development
- ❑ Key functions of the European Lab will focus on 1) Collaborative research, 2) Scientific and technological exchange and training, and 3) Cooperation with third-party partners



Going forward

- ❑ An MoU among IPP-CAAS, CABI, and Kenya partners was signed in 2017 to strengthen plant protection cooperation between Kenya and China under the Belt and Road initiative
- ❑ An MoU among Ministry of National Food Security and Research of Pakistan, IPP-CAAS and CABI in 2018 to explore collaboration between Pakistan and China under the Belt and Road initiative





The MoA-CABI Joint Laboratory would like to thank:

Chinese Ministry of Agriculture and Rural Affairs

Chinese Academy of Agricultural Sciences

IPP-CAAS

Other Chinese partners

CABI

Donors:

DG Research, DG EuropeAid

DFID, STFC, Newton

The 9th Steering Committee Meeting of MoA-CABI Joint Laboratory



Assalamualikum

ありがとう

merci

kiitos

danke

urakoze

terima kasih

शुक्रिया

zikomo

tak

xie-xie

murakoze

gracias

ke itumetse

dhanyawaad

efharistó

zikomo

thank you