

## **Chinese Ministry of Agriculture – CABI Joint Laboratory for Bio-safety**

### **Brief Profile**

Having worked together with Chinese partners towards sustainable agriculture for over 30 years, the establishment of the Chinese Ministry of Agriculture (MoA) – CABI Joint Laboratory for Bio-safety in 2008 was a major milestone in CABI-China collaboration. The Joint Laboratory – located in the Institute of Plant Protection (IPP) of the Chinese Academy of Agricultural Sciences (CAAS), Beijing – functions as a platform for research collaboration and technology transfer and as a centre of excellence for training and scientific exchanges. Together, the partners work mainly on integrated pest management technologies and biological control, prevention and control of invasive alien species, development of biological pesticide, reduction of pesticide residues, and environmental safety research of transgenic organisms.



The Joint Laboratory has underpinned many projects since its establishment. Successful projects vary from applied research to develop novel biological control techniques to control agricultural pests to facilitating an international congress which brought together over 500 specialists from around the world to discuss key issues on invasive species management. With access to a huge network of Chinese scientists/experts, the Joint Laboratory is well positioned to facilitate agricultural technology transfer from China to other developing countries. For example, supported by DG DEVCO EuropeAid and the Chinese MoA, we are helping smallholder farmers in Laos and Myanmar as well as Southwest China to increase their rice and maize production sustainably through IPM solutions suited to local conditions.

### **Partners:**

Chinese Ministry of Agriculture  
Chinese Academy of Agricultural Sciences  
Institute of Plant Protection, CAAS  
CABI

### **Project status:**

On-going (from year 2008 to present)

### **Output:**

With support from MoA, CAAS, IPP-CAAS and CABI, achievements have been made at the Joint Laboratory in respect of talent introduction, innovative research team building, development and implementation of key international collaborative projects, introduction of efficient biological control agents and biological control technologies, organization of important international conferences and transfer of agricultural technology from China to other developing countries. For example, by the end of 2016, 48 plant clinics were operational in four provinces of China, providing over 33,000 smallholder farmers free extension advisory services to diagnostic their crop pests' problems and recommend IPM-based practical treatment measures.

Through the work of the Joint Laboratory, we have also developed alternatives to the chemical control of *Apolysus lucorum*, a key cotton pest in China that causes yield losses of 20-30% of the crop. Substantial progress has also been made on biological control of a number of invasive species originally from the region including brown marmorated stink bug, box tree caterpillar, *Drosophila suzukii* and Canada thistle.

There was significant recognition in 2012 for the Joint Laboratory, Dr Ulrich Kuhlmann, the Co-Director from CABI, being granted the Friendship Award, the highest Chinese honour for foreign

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experts. This recognition is further evidence of the strength of the partnership that has been developed between CABI, the MoA and CAAS under the Joint Laboratory, and its work to support agriculture in the region.

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**Funder:**

Chinese Ministry of Agriculture

CABI

**Project web-link:**

[http://www.ippcaas.cn/Sites/IPP/List\\_2585\\_47959.html](http://www.ippcaas.cn/Sites/IPP/List_2585_47959.html)