China-EU Cooperation in Agricultural Science and Technology

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Outline

- China-EU cooperation: lessons from the past
- FAB Task Force: an excellent mechanism to promote China-EU Agriculture R&I cooperation
- Some suggestions: the road to future
China-EU cooperation: lessons from the past
The cooperation between China and EU in the field of Agricultural research began from 1990s, and the first cooperation is a FP3 project from 1991 to 1995.

A project of controlling Asian corn borer is the first China-EU agricultural research cooperation.

From 1996, Chinese research institutions actively and systematically participated in FP projects.
China-EU Science and Technology Cooperation Agreement was signed between the MOST and the RTD in 1998.

The research cooperation between China and EU began to be in a fast track since FP5.

<table>
<thead>
<tr>
<th>FPs</th>
<th>Period</th>
<th>Total NO. of Projects that CN entities participated in</th>
<th>NO. of Projects in Agriculture, Forestry and Aquaculture that CN entities participated in</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP5</td>
<td>1999-2002</td>
<td>155</td>
<td>20</td>
</tr>
<tr>
<td>FP6</td>
<td>2003-2006</td>
<td>211</td>
<td>18</td>
</tr>
<tr>
<td>FP7</td>
<td>2007-2013</td>
<td>236</td>
<td>29</td>
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CAAS is a major player in China-EU agricultural S&T cooperation, up to FP7 more than 40 FP projects have been jointly conducted by CAAS and partners from EU member states.
Success Story I-Veterinary

Vector and vector-borne diseases research team at LVRI, CAAS has been involving in 7 FP projects during FP6-7.

**FP6**
- EPIZONE: Network of Excellence of Epizootic Diseases Diagnosis and Control
- ASEMDialog: The EU, China and South East Asia Dialog for the development of research areas in animal health of mutual interest
- ICTTD: Integrated consortium on ticks and tick borne diseases

**FP7**
- ARBO-ZOONET: International Network for Capacity Building for the Control of Emerging Viral Vector Borne Zoonotic Diseases
- ASFRISK: Evaluating and controlling the risks of African swine fever in the EU
- PIROVAC: Improvement of current and development of new vaccines for theileriosis and babesiosis in small ruminants
- STAR-IDAZ: Global Strategic Alliances for the Coordination of Research on the Major Infectious Diseases of Animals and Zoonoses
Dr. Jiankang Wang’s team at ICS, CAAS has carried out an EU-China partnership initiative in plant breeding successfully, i.e. Breeding to optimize Chinese agriculture (OPTICHINA, FP7).
Scientists from IPP, CAAS have carried out two EuropeAid projects and helped farmers in the Greater Mekong Sub-region (including Laos and Myanmar) to protect rice and maize from pests through applying IPM and other biological control methods (from 2010).
China and EU have made tremendous endeavours in cooperation in agriculture science and technology, and great progress has been achieved.

An effective working mechanism need to be set up so as to:
- have a regular channel to communicate
- have a platform to discuss important issues including priorities, strategies, modalities, problems...
- provide suggestions to decision makers both from China and EC
FAB Task Force: an excellent mechanism to promote China-EU Agriculture S&T cooperation
The China-EU Food, Agriculture and Biotechnology Task Force was established in 2011 under the framework of the China-EU Science and Technology Cooperation Agreement.
Function of FAB TF

- Building a seamless connection and open dialogue pathway to enhance mutual understanding

- Coordinating experts from both sides to jointly submit EU project proposals and conduct collaboration

- Providing background documents for high level coordinating bodies (e.g. China-EC Joint Steering Committee on S&T Cooperation), and hence to facilitate decision making process
Working mechanism of FAB TF

Annual meeting with purpose of summarizing the progress, identifying priorities, and formulating work plans and strategies

Regular VCs aiming at improving timely and seamless connections and communication

Expert workshop/seminars aims to enhance the partnership between China and EU researchers
H2020 was officially launched at the beginning of 2014.

Agriculture research is an important part of H2020 which is reflected in two topics:

- **Societal Challenge 2**: Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy

- **Societal Challenge 5**: Climate Action, Environment, Resource Efficiency and Raw Materials
TF welcomed the outcome of the Expert Seminar which helped to define an China-EU R&I cooperation initiative on FAB and agreed on the following shared priority areas for cooperation in H2020:

<table>
<thead>
<tr>
<th>Food Safety</th>
<th>Urban Agriculture</th>
<th>Soil and Land Management</th>
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<tbody>
<tr>
<td>Plant Breeding</td>
<td>Animal Health and Production</td>
<td>IPM and Biological Control</td>
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</table>
For the first stage of H2020, about 90 CN research entities participated in about 70 proposals submitting in 2014 calls.

Finally, 7 proposals passed the final review.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Proposal acronym</th>
<th>CN partner</th>
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<tbody>
<tr>
<td>SFS-01a-2014</td>
<td>Feed-a-Gene</td>
<td>CAU</td>
</tr>
<tr>
<td>SFS-01b-2014</td>
<td>SAPHIR</td>
<td>SHVRI (CAAS)</td>
</tr>
<tr>
<td></td>
<td>Paragone</td>
<td>LVRI (CAAS)</td>
</tr>
<tr>
<td>SFS-03b-2014</td>
<td>EUCLID</td>
<td>IPP (CAAS), Zhejiang University, Noah Organic Farm, CarrefourChina</td>
</tr>
<tr>
<td>SFS-04-2014</td>
<td>iSQAPER</td>
<td>IARRP (CAAS), ISWC (CAS), ISS (CAS), SFI (SAAS)</td>
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<td></td>
<td>LANDMARK</td>
<td>ISS (CAS)</td>
</tr>
<tr>
<td>WASTE-02-2014</td>
<td>REFRESH</td>
<td>IGSNRR (CAS), All-China Environment Federation</td>
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• No more budget from EC to support CN experts

• CN research institutions are in a dilemma and EU partners are eagerly looking forward to....
Some suggestions: the road to future
Next Steps....

- To enhance the role of FAB Task Force in China-EU agriculture R&I cooperation
  - Consolidate and improve the current dialogue and working mechanism, including well-timed VCs, modification of the TF membership
  - Enhance the TF annual meeting’s role as a think tank
  - Promote effective implementation of cooperation under present situation i.e. no specific funding
    - encouraging CN experts to participate in H2020 by using ongoing/existing project funding
    - facilitating formulation of joint concepts notes or proposals on FAB Flagship Initiative
Facilitate funding mobilization from various sources to support the China-EU collaboration

- MOST
- MOA
- Private Sectors
- ...
Thanks