

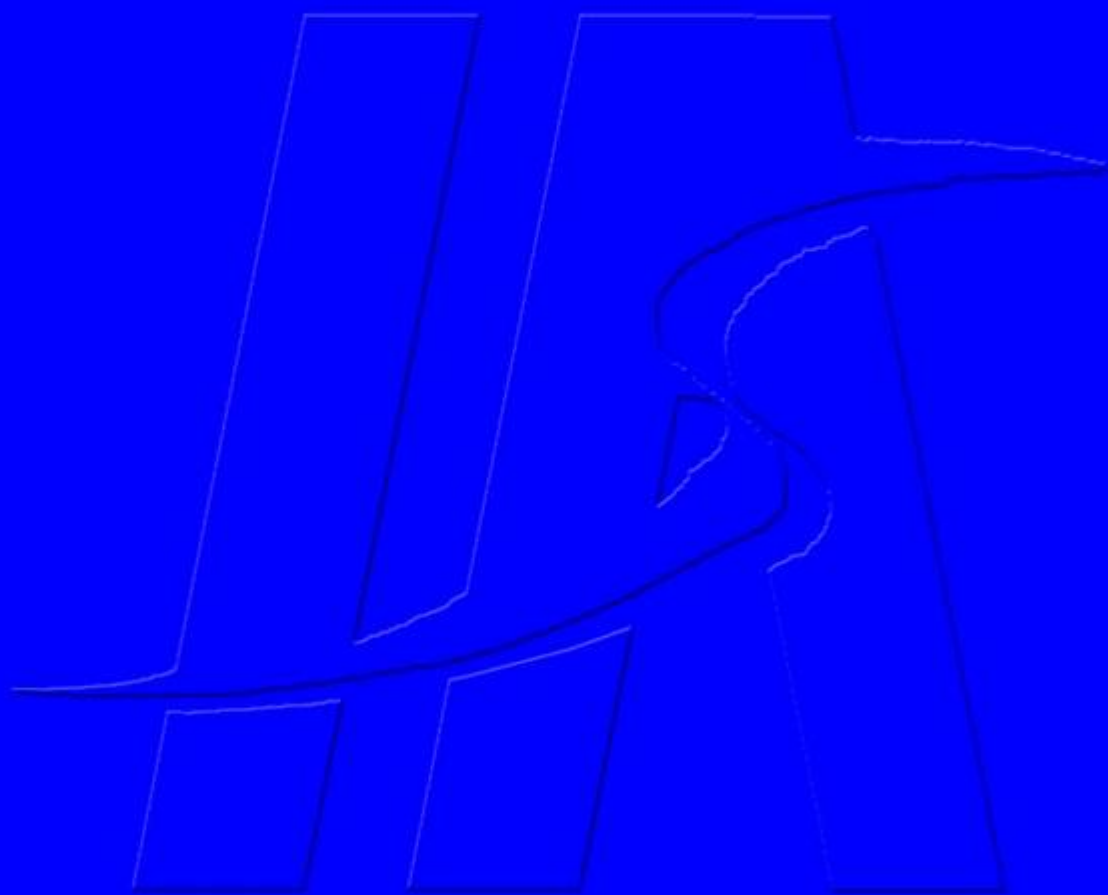


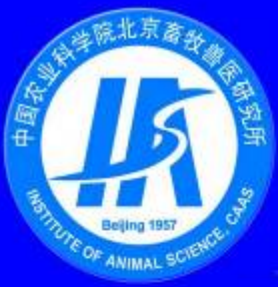
求实，创新，协作，奉献

# Welcome to IAS-CAAS!

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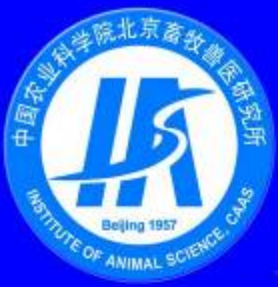


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# I. GENERAL INFORMATION

- Founded in August 1957, directly affiliated to CAAS;
- A national multi-discipline research organization in the field of animal science.





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# I. GENERAL INFORMATION

## 1. Primary Mission

- Conducting fundamental and applied researches on animal science.
- Application and extension of research achievements and practical technologies.
- Promoting scientific and technical exchange and cooperation with institutions both domestic and overseas.
- Training scientific and technical staff.
- Editing and publishing professional books and academic periodicals.



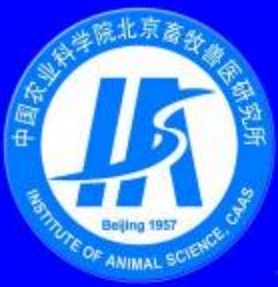


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# I. GENERAL INFORMATION

## 2. Staff

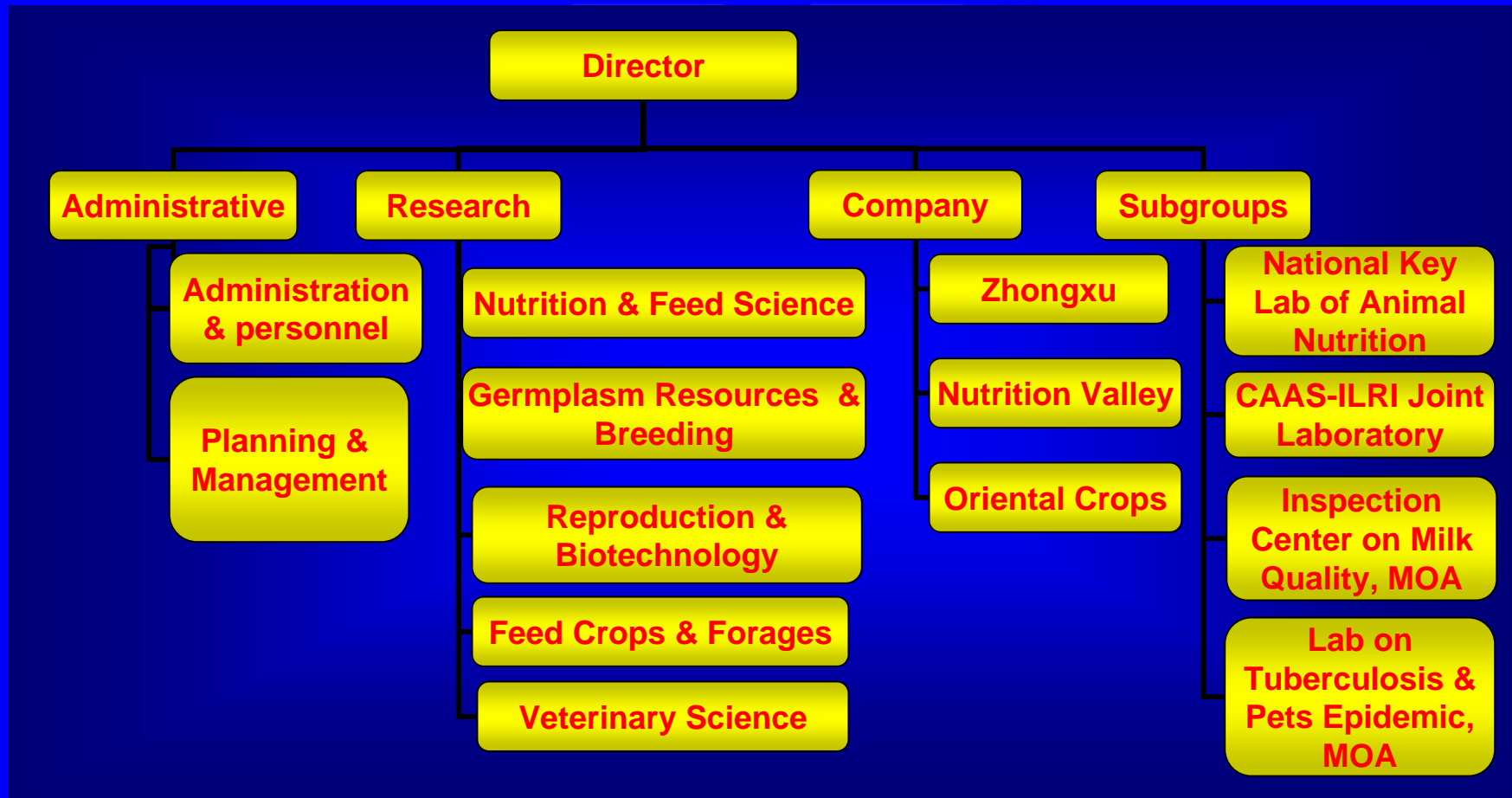
<b>Total staff</b>	<b>169</b>
<b>Researchers and Technicians</b>	<b>131</b>
<b>Professors</b>	<b>27</b>
<b>Associate Professors</b>	<b>32</b>
<b>Ph.D holders</b>	<b>58</b>

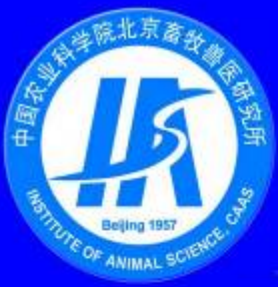


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# I. GENERAL INFORMATION

## 3. Organizational Structure





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## II. MAIN AREAS OF RESEARCH

### 1. Animal Nutrition & Feed

- Nutrient metabolism and requirements, feed resources and evaluation.

### 2. Animal Germplasm Resources & Breeding

- Collection, conservation, utilization of germplasm resources;
- Development of new breeds.





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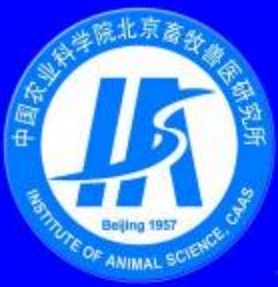
## II. MAIN AREAS OF RESEARCH

### 3. Animal Reproduction & Biotechnology

- Reproductive physiology, mechanism of highly prolific breeds, embryo transfer, biotechnique application.

### 4. Feed Crops & Forage

- Collection of germ plasm resources; Cultivation techniques; Artificial pasture construction; new varieties (cultivars) .

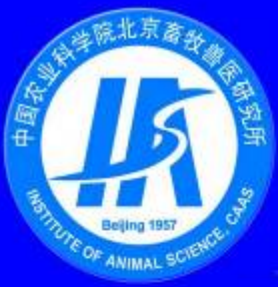


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## II. MAIN AREAS OF RESEARCH

### 5. Veterinary science

- Development of new vaccines and diagnostic methods for animal diseases;
- Tracking and tracing of animal infectious diseases, including:
  - Zoonoses: rabies, Bovine Tuberculosis (TB)
  - Pet diseases: Canine parvovirus, Canine distemper
  - Exotic animal diseases: African swine fever (ASF), Peste des petits ruminants (PPR)
  - Food animal diseases: Porcine respiratory and reproductive syndrome (PRRS); Porcine circovirus-2 infection (PCV-2); Influenza



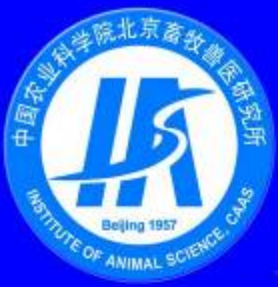
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## III. FACILITIES

### 1. Main Campus (18ha.)

- Main building 5251 m<sup>2</sup>, 20 laboratories;
- Inspection Center on Milk Quality of MOA 1400 m<sup>2</sup>.





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## III. FACILITIES

### 2. Experimental base (19 ha.)

*27km north of the institute campus*

- Experimental farms (18000 m<sup>2</sup>) for pig, chicken, duck, cattle and sheep;
- Feed mill (300 m<sup>2</sup>).







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## III. FACILITIES

### 3. Mini-pig Farm (2 ha.)

*Located in Nankou town*

- SPF piggery (400 m<sup>2</sup>) for Wuzhishan pig, authorized to be used at medical research;
- Raising 3 kinds of mini-pig.







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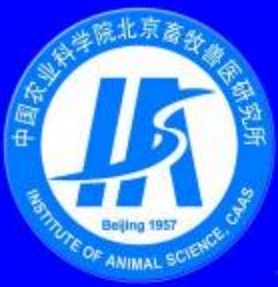
## III. FACILITIES

### 4. Alfalfa breeding farm (120 ha.)

*Located in Inner Mongolia*

- A breeding base for “Zhongmu NO.1, NO.2 and NO.3” alfalfa, bred by IAS.





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## III. FACILITIES

### 5. Apparatus and Equipment:

- Large equipments (value upon \$10,000): more than 150 sets;
- Total value about \$7 million.







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## III. FACILITIES

### 6. Animals for experiment:

- Cattles and cows with 3-point fistula;
- Experimental mini-pig;
- Piemontese cattle from Italy;
- Peking white pig;
- Peking yellow chicken;
- Peking duck;
- .....





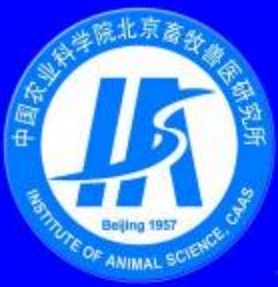


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## IV. RESEARCH FUNDING

### ➤ The Institute gets funding from:

- Ministry of Science and Technology
- Ministry of Agriculture
- National Natural Science Foundation
- Beijing Municipal Natural Science Foundation
- Chinese Academy of Agricultural Sciences
- Contracts with Industry
- Sale of products, technical consultation

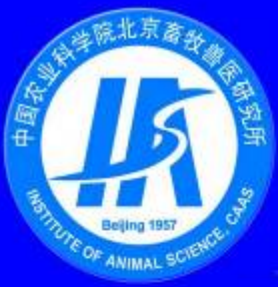


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## IV. RESEARCH FUNDING

- Ongoing projects in 2007:
  - 151 projects, annual budget about \$7 million;
  - Per-capita Fund: about \$50,000.

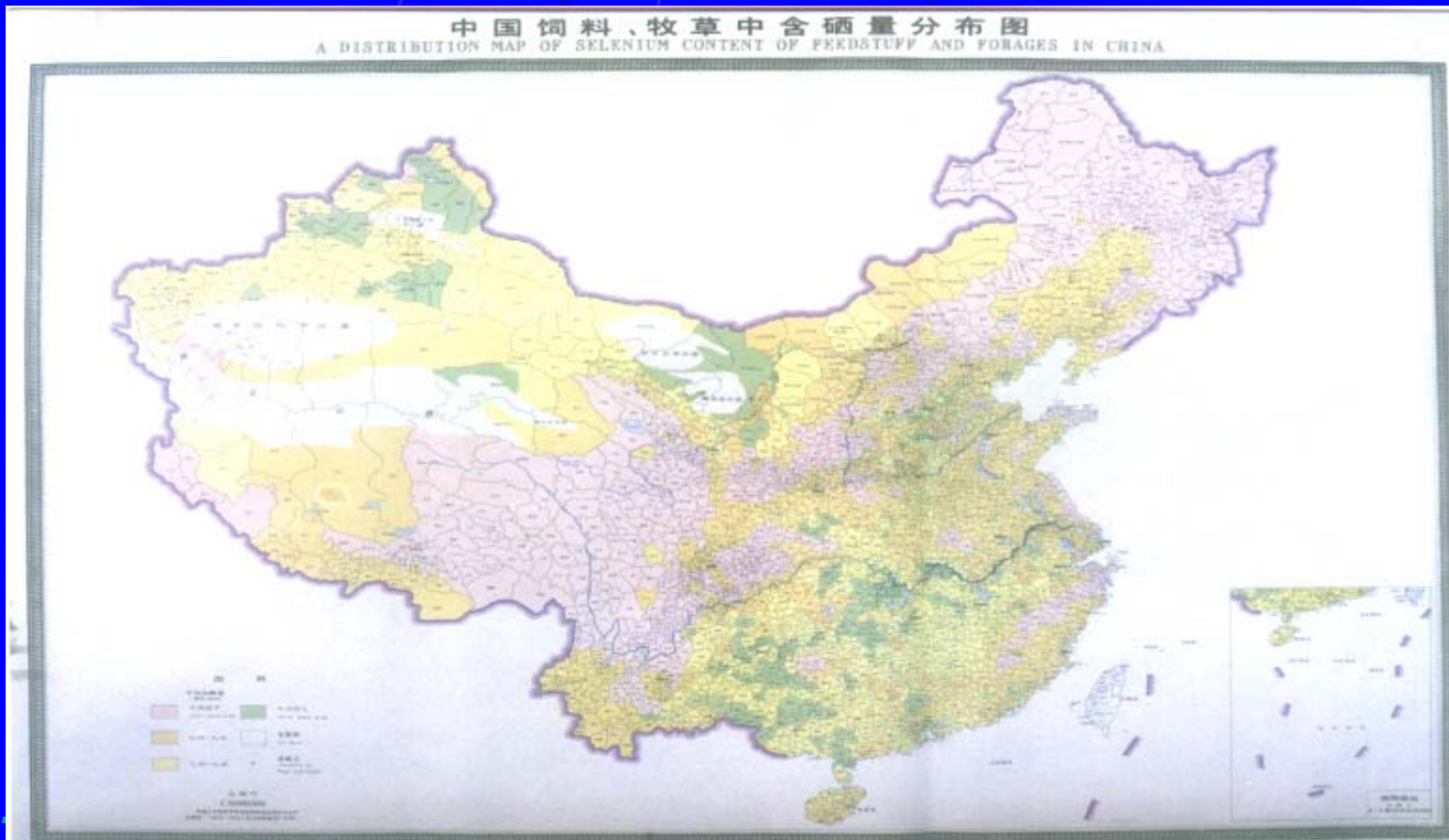


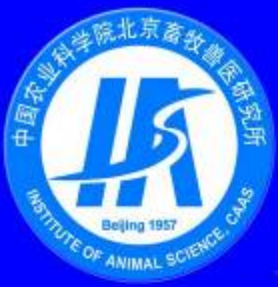


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# V.MAJOR ACHIEVEMENTS

- Distribution map of Selenium content of feedstuff and forages in China.

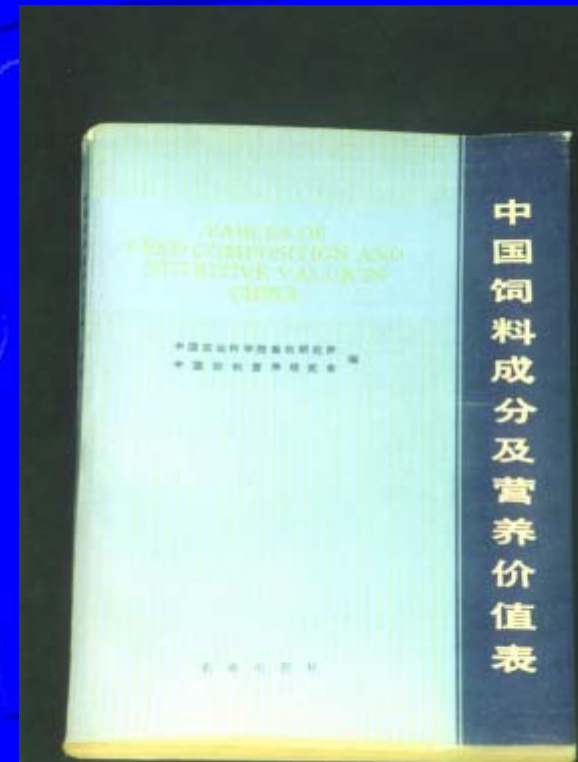




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# V.MAJOR ACHIEVEMENT

- Component and nutrient analysis of Chinese local feed resources.







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# V. MAJOR ACHIEVEMENT

- “Description of Chinese domestic animal: pig, cattle, sheep, horse, poultry”.





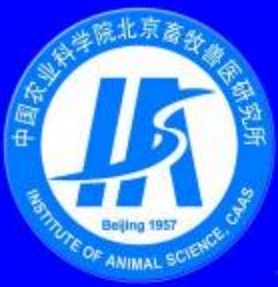


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# V.MAJOR ACHIEVEMENT

## ➤ Studies on the Yellow Broilers New Strains.



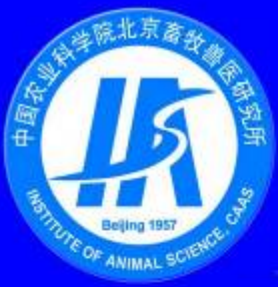


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# V.MAJOR ACHIEVEMENT

- **Studies on Nutrient Requirements and Feed Formulation Technologies for Broilers of 0-2 Weeks of Age.**

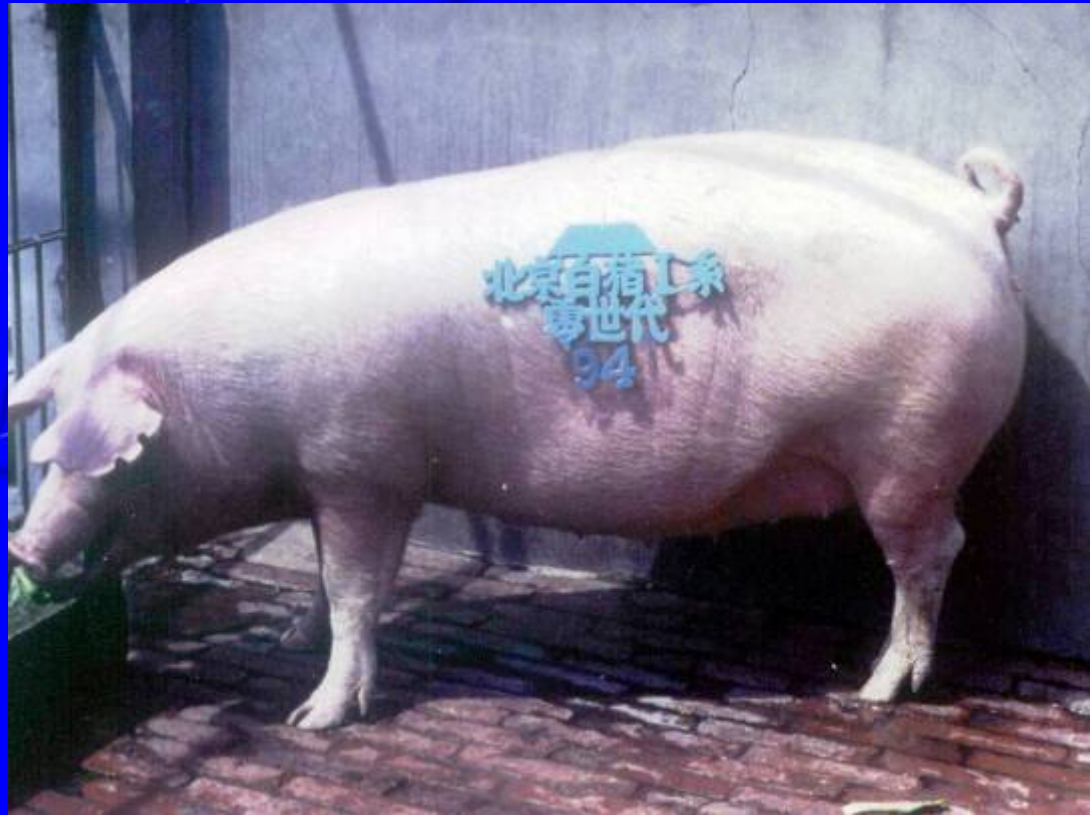




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# V.MAJOR ACHIEVEMENT

- Breeding of the Chinese New Meat-Type Pig Lines and Feeding Technology.



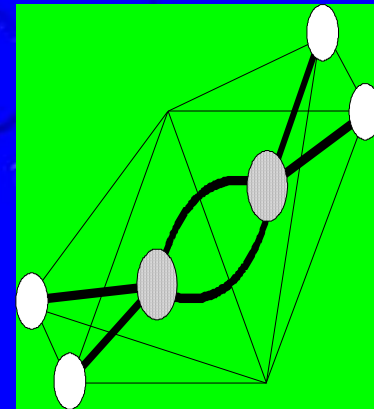


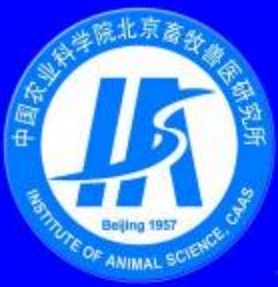


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# V.MAJOR ACHIEVEMENT

## ➤ Synthesis and Utilization of Rumen Microorganism Urease Inhibitor.





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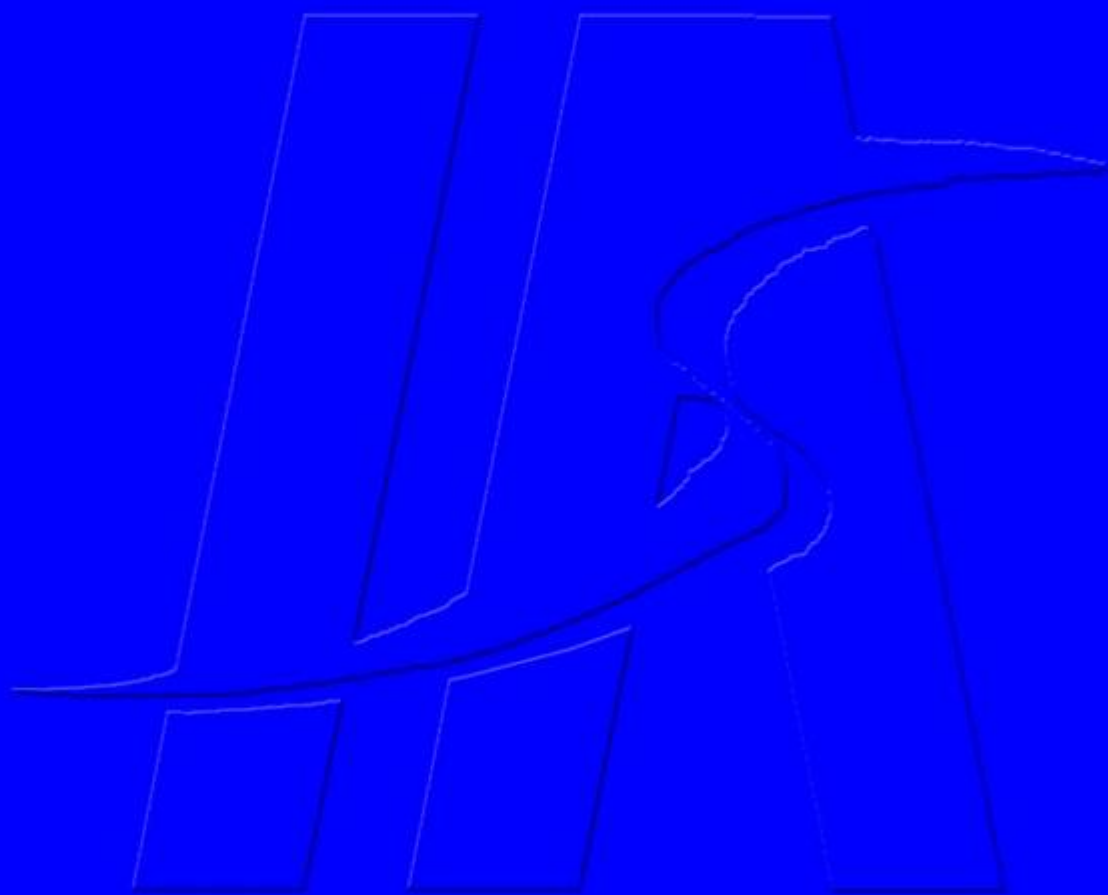
# V.MAJOR ACHIEVEMENT

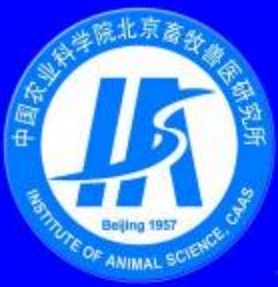
## ➤ Breeding of the Chinese Simmental.





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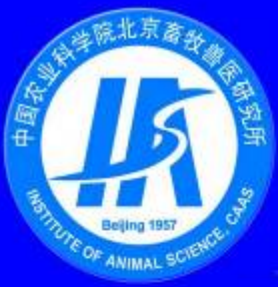




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## V. INTERNATIONAL COOPERATION

- **International organization:**
  - **FAO、CGIAR、IAEA、CABI、EU**
- **Bilateral Cooperation :**
  - **Italy, Australia, USA, Canada, Spain, England, Argentina, Brazil, Russia, France, Korea, Japan, Finland, etc.,**

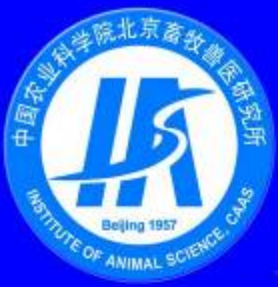


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## VI. INTERNATIONAL COOPERATION

- **CAAS-ILRI Joint Laboratory on Livestock and Forage Genetic Resources**





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## VII. EDUCATION & TRAINING

- **Permission to award PhD degree on:**
  - Animal science
- **Permission to award Master degree on:**
  - Animal nutrition      – Feed science
  - Livestock reproduction      – Animal production
  - Grass science      – Veterinary science
- **22 Ph.D supervisors;**
- **287 Ph.D and Master candidates.**







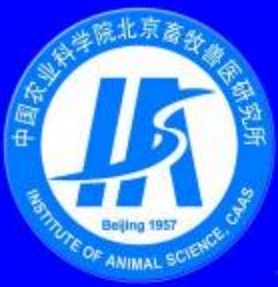




## VIII. SCIENTIFIC EXTENSION AND DEVELOPMENT

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- **Beijing Zhongxu Yangguang Animal Husbandry Sci. & Tech. Company**
  - Dealing in: animal feed, feed additives, breeder, embryo, etc.
- **Beijing Nutrition Valley Sci. & Tech. Company**
  - Dealing in: livestock product, Veterinary Drugs, etc.
- **Beijing Oriental Grass and Forage Sci. & Tech. Company**
  - Dealing in: seeds, forage product, herbicide, etc.

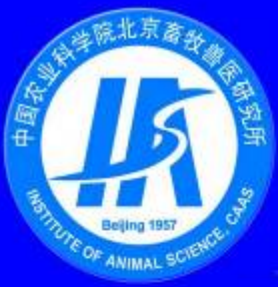


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## IX. SCIENTIFIC PUBLICATION

- Chinese Journal of Animal and Veterinary Sciences
- China Animal Husbandry and Veterinary Medicine





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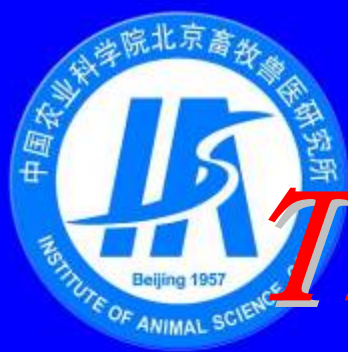
## IX. SCIENTIFIC PUBLICATION

- 2 professional websites:
  - China Domestic Animal Germplasm Resources Database



- China Feedstuff Database





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*Thank you for your  
attention*

No.2 Yuanmingyuan Xilu,  
Beijing, 100193 P. R. China  
Tel: 86 -10- 6281 5862  
Fax: 86-10-6289 5371  
Email: xms-kyc@263.net  
<http://www.iascaas.net.cn>