

Chinese Academy of Inspection and Quarantine

Introduction



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CHINESE ACADEMY OF
INSPECTION AND QUARANTINE

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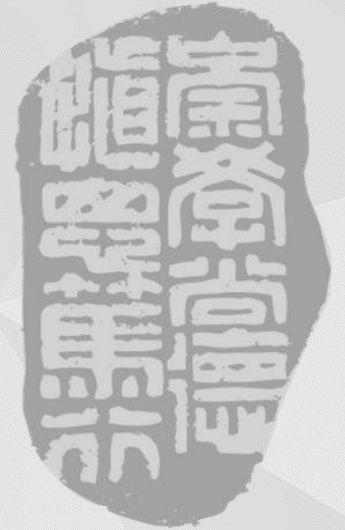
Basic Information



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Chinese Academy of Inspection and Quarantine (CAIQ) is a China state owned research organization for public interest dedicated in the area of inspection and quarantine. With the completion of I&E commodity inspection, health quarantine, plant and animal quarantine combination, of which known as “Three Inspection and Quarantine in One”, the CAIQ formally launched. The main responsibility of CAIQ is applied science research in the field of inspection and quarantine. Corresponding basic, high-tech and soft science research is also enclosed into CAIQ’s responsibilities, for the sake of resolving general, comprehensive, critical, emergent, and elementary science and technology problems confronted in the workflows of inspection and quarantine. CAIQ’s endeavor also dedicates in providing technical support for inspection and quarantine policy making in the national scale. Technical assistance for AQSIQ legal enforcement, quality science education, and social practice training base are also parts of CAIQ’s responsibilities.



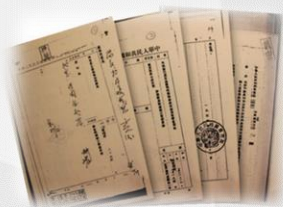


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1954

Institute of Plant Quarantine
Ministry of Agriculture



China Import & Export
Commodity Inspection
Technology Institute

1979



2004

Chinese Academy
of
Inspection and Quarantine





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4 Branches and Headquarter , occupied 20.5 acres

88,433 Constriction Area (21.9 acres or so)

Headquarter constriction Area **46,919** square meter (about 11.5 acres)

8.24 acres of Transformation Base in Hebei, constriction Area **20,000** square meter
(about 4.94 acres)

Constriction area of Gao Bei Dian Branch **11,176** square meter (about 4.94 acres)





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8 Professional Research Bodies



Institute of Food Safety
Institute of Plant Quarantine
Institute of Animal Quarantine
Institute of Health Quarantine
Institute of Industrial and Consumer
Product Safety
Institute of Chemicals Safety
Institute of Equipment Technology
Agro-product Safety Research Center

7 Technical Support Affiliates



Comprehensive Test Center
Specimen Library
Analysis Capability Assessment System
Internal Services Center
Cosmetic Technology Center
State Food Safety HACCP Application
Research Center
Technical Training Center

6 Academy Owned Companies



Journal of Inspection and Quarantine
Beijing Land Bridge Technology Co., Ltd.
Sanhe Land Bridge Printing Co., Ltd.
Beijing Land Bridge Comprehensive
Services Company
Beijing Wan Cheng Credit
Evaluation Co., Ltd.



8 *Standardization Technical Committee Secretariat*

1. National plant quarantine standardization technical committee (TC271)
2. National Standardization Technical Committee for import and export food inspection and certification system (TC444)
3. National import and export food safety inspection Standardization Technical Committee (TC445)
4. National hazardous chemicals management standardization technical committee toxicity detection sub Technical Committee (TC251/SC1)
5. Entry & exit inspection and quarantine standardization technical committee for food inspection technology
6. Entry & exit inspection and quarantine standardization



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WHO International Travel Health Cooperation Center

APEC/FSCF Joint Secretariat (Beijing)



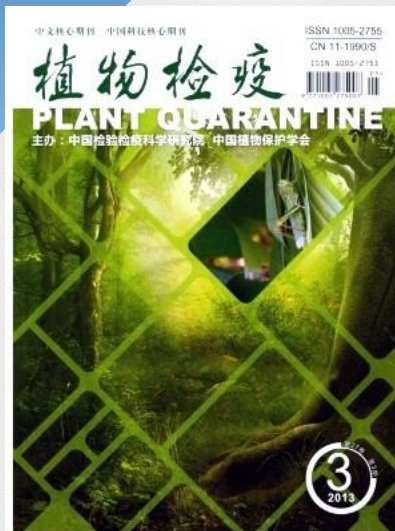


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3

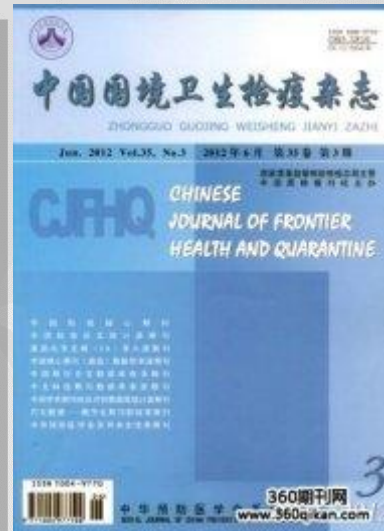
Inspection & Quarantine
academic publications



Plant Quarantine



Journal of Inspection
and Quarantine



Chinese Journal of
Frontier Health and
Quarantine

2

R&D Strengths

12 AQSIQ Key Testing Laboratories

AQSIQ Key Laboratory of Quarantine Treatment	AQSIQ Key Laboratory of Foreign Infectious Disease Prevention and Control	AQSIQ Key Laboratory of Cosmetics Safety	AQSIQ Key Laboratory of Chemicals Safety
AQSIQ Key Laboratory of Food Safety	AQSIQ Key Laboratory of Genetically Modified Products and Species Resources Detection and Monitoring	AQSIQ Key Laboratory of Import & Export Harmful Creature Prevention and Control	AQSIQ Key Laboratory of Import & Export Animal Quarantine
AQSIQ Key Laboratory of Foreign Medical Vectors	AQSIQ Key Laboratory of Import & Export Mechanical and Electrical Products Safety and Energy Efficiency	AQSIQ Key Laboratory of Toxicology	AQSIQ Key Laboratory of Genomic Quarantine for Foreign Harmful Organism Prevention and Control

AQSIQ Engineering Research Center & Research Key Laboratory

**Engineering
Research Center**

**AQSIQ
Quarantine
Treatment
Engineering
Research
Center**

**Research
Key Laboratory**

**AQSIQ Key
Laboratory of
Agricultural
Products
Quality and
Safety Research**



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30 Joint Contraction
Organizations in China
17 Provinces,
Municipalities and
Autonomous Regions

Yi Li Food Safety Research Unit
Alataw Pass Petroleum, Chemical and
Minerals Research Unit
Xin Jiang Zoonosis Detection Laboratory

Inner Mongolia Rodent Borne
Diseases Research Unit

Hei Long Jiang Tick Borne
Diseases Research Unit

Liao Ning Medical Equipment
Sanitary Treatment
Research Unit

Qin Huang Dao Fly Borne
Diseases Research Unit

Tian Jin Sanitary Treatment
Safety Research Unit

Wu Xi Human Carry
Pathogen Research Unit

Shang Hai Cockroach Borne
Diseases Research Unit

Gui Zhou Food Safety Research Unit

Guang Xi (Ping Xiang) Rodents Carry
Pathogenic Organisms Research Unit

Fu Jian Medical Vector Biology Research Unit
Fu Jian Tea Laboratory
Xia Men Food Safety Research Unit



Lead the establishment of National Food & Agricultural Products Testing Laboratories Alliance



On **4 June 2012**, the building preparation meeting for the National Food & Agricultural Products Testing Laboratories Alliance has been held. And the Alliance formally launched on 29 August 2012.

76 initiative organizations, more than 100 representatives from CIQs, Quality and Technology Supervision Administrations, Food and Drugs, Agricultural and Health authorities, participated the launch ceremony.



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Participated 7 Alliances

1. China canned industry technology innovation strategic alliance
2. Apple industry technology innovation strategic alliance
3. China agricultural products cold chain logistics industry technology innovation strategic alliance
4. China dairy technology innovation strategic alliance
5. Fruit and vegetable processing industry technology innovation strategic alliance
6. Nutrition and health food industry technology innovation alliance
7. China infectious disease diagnostic reagent Innovation strategic alliance



1 National technology transformation, entrepreneurial services, and Industrialization base

- In 2013, the Ministry of Science and Technology (MOST) approved the application of International Inspection and Quarantine Science and Technology Cooperation Base, of which undertakes 8 international cooperation projects from MOST.
- Unique international science and technology cooperation base in the inspection and quarantine system



1 Provincial and Ministerial Level technology transformation, entrepreneurial services, and Industrialization base

- In 2014, the AQSIQ approved the application of Quality Supervision, Inspection and Quarantine Science and Technology Transformation B

1 Academician of Chinese Academy of Engineering PANG Guofang



Personnel

942
employees



Expert

52 professors
82 associate professors



High educated talent pool

205 Ph.D.
205 Master
degree



Leading Talent

1 Ten Thousand Talent Plan
1 Innovative Talent Promotion Plan
4 Talents Project national candidates
2 State Direct Contact Expert
5 International Organization
Participation

CAIQ equipped more than 3800 sets of instruments, about 730 million RMB asset.

Including:

1. High resolution scanning electron microscope
2. Inhalation exposure system
3. Linear ion trap – electrostatic field – orbitrap combined mass spectrometer
4. High resolution magnetic mass spectrometer
5. Ultra performance liquid chromatography tandem quadrupole linear ion trap LC-MS
6. Quadrupole ion mobility time-of-flight mass spectrometer



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Academic Awards

2 International Awards



2 National Awards



98 Provincial & ministerial level S&T Awards

- ◆ AOAC Harvey Wiley Award (First Chinese awardee since 1956, the year of the award found)

- ◆ AOAC 2015 Standard Method

- ◆ 2015 National Science and Technology Invention Award Class Two (Host)

- ◆ 2007 National Science and Technology Progress Award Class Two (Host)

- ◆ 2014 National Science and Technology Progress Award Class

- ◆ Compete projects as host and gained the ministerial, provincial and municipal awards

Academic Achievements

608 research projects

672 standard
development projects



537 SCI papers

50
monographs

439 technical
standards

3 international
standards

161 national
standards

275 industrial
standards



353 authorized patents

1 international patents

230 invention patents

122 patents for utility
models

3

Cooperation



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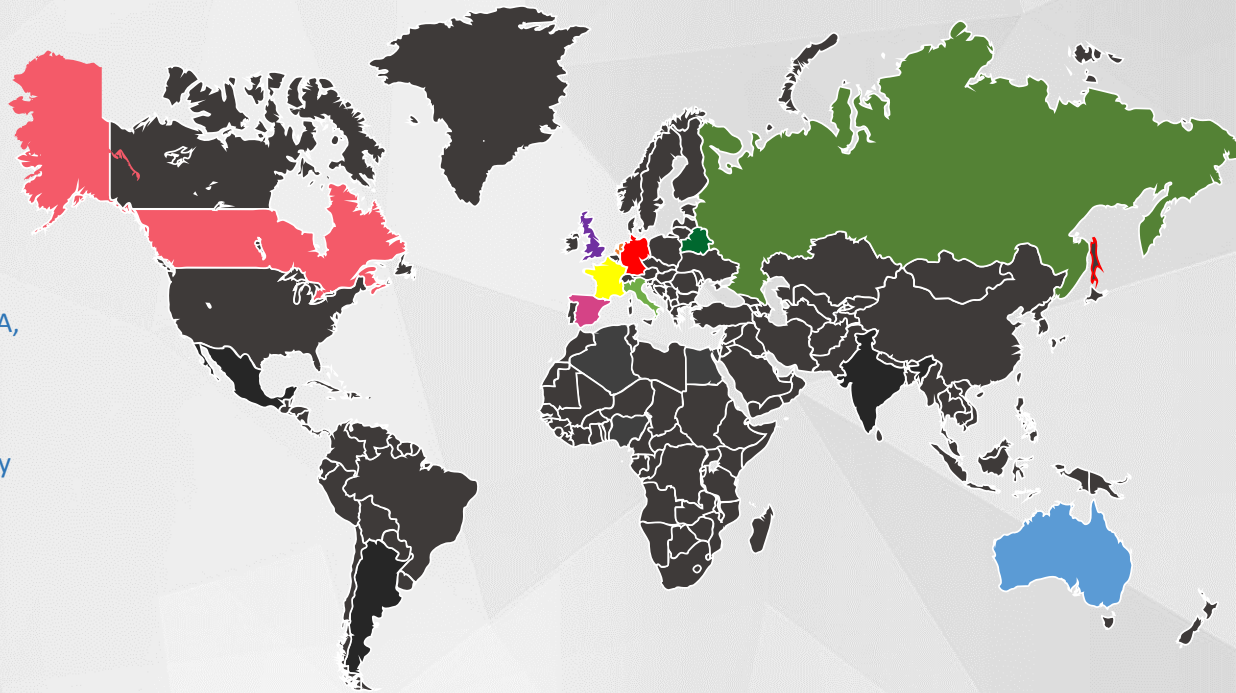
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Recent years, CAIQ actively explores the collaboration with corresponding foreign authoritative organizations, signed **25 international cooperation agreements** with **16 foreign countries (and regions)**

including EU, UK, German, France, Japan, USA, Israel, Netherlands, Australia, and Russia.

23 September 2015, signed joint research platform agreement with Murdoch University (Australia).

20 October 2015, in the basis of CAIQ-JRC 2010 agreement, the agreement has been renewed. (In addition to the consumer product safety collaboration, the renewed agreement enclosed nano technology, food safety and quality, adulteration identification, food fraud detection, proficiency testing, reference material, best practice experience sharing, and so on.





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Domestic Cooperation

29 joint research unit with
CIQs

19 agreements signed with
CIQs and universities



In recent years, conducted collaboration with 22 organizations from 16 countries, and signed agreement with following organizations:

Murdoch University

German Federal Institute for Risk Assessment (BFR)

Minnesota University of USA

National Public Health Institute of Netherlands

European Commission's Joint Research Center

CRC for National Plant Biosecurity of Australia

TÜV SÜD and TÜV Rhineland (Germany)

Japanese National Institute of Technology and Evaluation (NITE)

Adgen Biotech (UK)



4

Development Strategy



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Serve to
National
Industry
Upgrade



Serve to
national
overall
foreign
trade and
foreign
affairs



Provide
technical
support for
AQSIQ
system

★ Unique national R&D organization for public interest among Entry-Exit Inspection and Quarantine authorities. Take problem solving orientated working methodology, to solve general, comprehensive, critical, emergent and basic science and technology problems confronted in the work of inspection and quarantine.

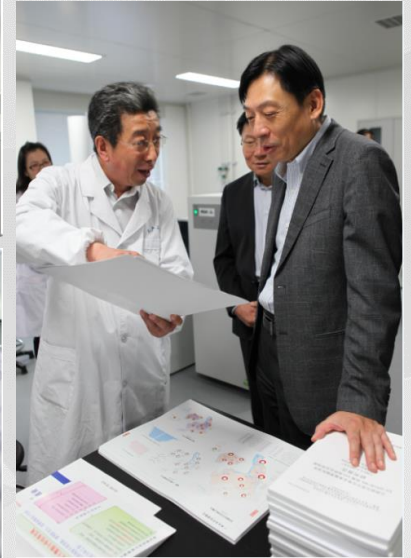


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CAIQ's endeavor, always serves to overall AQSIQ system, as well as economic and social development needs. CAIQ's science and technology strengths made several contributions in recent years.

- ✓ Prevention and control on SARS, influenza A, Ebola virus and dengue fever
- ✓ Response to the genetic modified rice product exported to EU
- ✓ Response to the dumpling exported to Japan poisoning accident
- ✓ Response to several food safety accidents such as melamine infant formula, NongFu spring water, Shuanghui clenbuterol, thickening agent and waste cooking oil in Taiwan foods
- ✓ 2008 Beijing Olympic Games
- ✓ 2010 Shanghai World Expo
- ✓ 2014 Nanjing Youth Olympic Games
- ✓ 2015 Beijing World Championships
- ✓ Earthquake disaster epidemic prevention, food safety detection and post disaster reconstruction in Wenchuan and Yushu



For several years, CAIQ provided 741 risk analysis reports to AQSIQ, provided a lot of fair, authoritative, and accurate inspection services to the whole society. CAIQ always prioritizes and makes contribution in international trade facilitation, consumer protection, national security protection, and national ecological security protection.

According to national science and technology management regime reform requirements, the need of AQSIQ science and technology development, and CAIQ's pragmatic situation, we established the "Prosper Academy and Explore Great Market" development strategy.

"Prosper Academy", is to insist on the essential attribute as state owned research organization for public interest, and make R&D as the core responsibility, with the foundation of the subject constriction. The dominant resources shall deploy in subject building and innovative team building. Capabilities in R&D, technical support, scientific and technical services provision, as the core competitive power, will raise CAIQ to a inspection and quarantine R&D body as international famous, and first-rate recognized in China.

"Great Market", is to insist the orientation be driven by the needs from R&D and the market. The integration between R&D need and economic, social development requirements, the integration between the oversee, administration need and pragmatism are the prerequisite of fully exploring the marketing mechanism role in S&T resources allocation. In doing so, the R&D outcomes can be transformed into industrialization, the benefits either in society or economy beneath the R&D will and can be emerged. R&D and market, the two wheel drive mechanism once established, mutual promotion and positive interaction will push CAIQ moving forward on the health and sustainable development track.



THANKS

*Advocate Science, Uphold Virtue;
Reflect Carefully, Practice Earnestly*