Compiled by
the Department of International Cooperation of CAAS

China Agricultural Science and Technology Press

ditorial Board of
S Annual Report

2017

Huajun
ngming
un, Jia
qia
anzhi,
Wang Shumin

uang, Zhang Shi an, Chen Lu,

ng, Wang Haifeng, Jiang Chenggang,
Wang Xunqing, Pang Jinming
of *Scientia Agricultura Sinica* and
Agriculture
Guo Ying, Huang Dandan, Liu Wenbo,

a Agricultura Sinica and

Message from the President

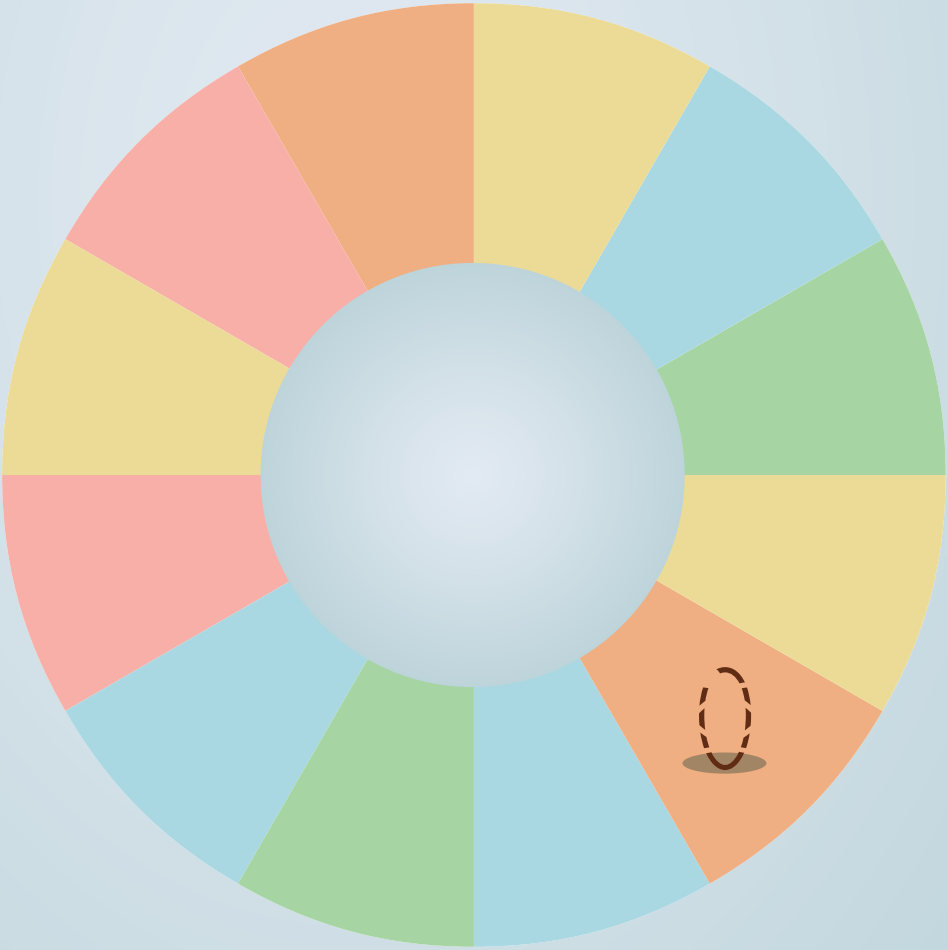
2017 C A A s (CAAs) 60
B CAAs
P J G s
C C C P C
CAAs
C CAAs
C I
19 N C C P C CAAs
C

I 2017, CAAs 2,222 2.06
(322). R N K R D P 2017,
CAAs 22.8 A , CAAs
23.3
R CAAs 23 23.1

M N A s I A 20
12
A
s B L A D
P C
CAAs C N A s & I C s
A R C C H A P
M , CAAs s A
s& D B R I I
23 16
CAAs- s&
CAAs

L I
CAAs L

P CAAs



Key Events

January

CAAs 2017 A C B -M A .P H , CAAs P

A G I I F CAAs

CAAs A C 2016 2017. P H , CAAs -P

February

I P P CAAs C M ( ) PL P

CAAs 13 F P (2016-20),

C .

P .C M L P G CAAs P . K , CAAs -P N M P R M

March

F R I CAAs R

P . C M L P G CAAs B M A F , H .C CAAs F . P H , CAAs -P F

April

I C CAAs R G 5 Q L N P

H R I CAAs HI J .

2017 C A O C CAAs A I I B C A O (2017-2026) R

May

June

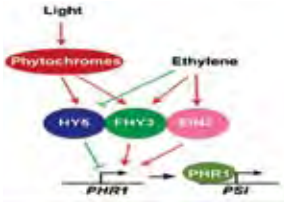
P .C M L P G CAAs, C K D , P C I E C

P K , CAAs -P E -C I C D B , B C M

A CAAs C F F A O N B

July

August



September

October

November

December

New Academicians

Wang Hanzhong

Professor,
Vice-President of CAAS

H 20 N B R P C (973 P). H 123 N G , *PNAS* P J, 4,673 1,023. E 15 C IPO-s IPO A C O P I I D N A I N s P A H 17 6.67 N R I s M A R A N C G R C I C G R R H C N F P (1996-2000) C A s H s C I 2017, H C A E

Chen Hualan

Professor,
Harbin Veterinary Research
Institute of CAAS

C H C N N s A 2013 ( ) N A I 2007 s N s P A 2005 s 1997 C A E A 2007 s H L H L s I A LO NE s CO F s A C Q I 2017, C H C A s

Honors and Awards

2017 National Technology Invention Awards (Second Prize)

L

CAAs I A R

2017 National Science and Technology Progress Awards (Second Prize)

C

C

Q

CAAs I C s

B

J L

CAAs I

F

K

LED

Q

CAAs I

E s D

A

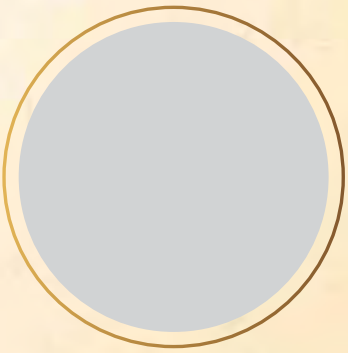
E

R

CAAs

I A R

R P



M G I

E

B A C

J CAAs

I A R

R P

B

L B

CAAs O C

R I

Honors and Awards

Winner of the National Science Fund for Distinguished Young Scholars

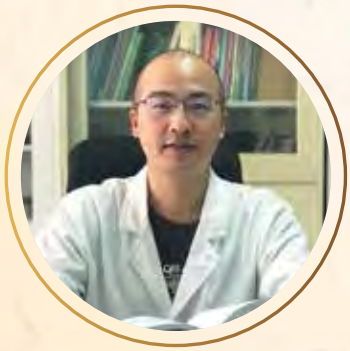
G
CAAS I P P

Key innovative team in the Innovators Promotion Program initiated by the Ministry of Science and Technology

A
B CAAS
F R I

Winners of the National Science Fund for Outstanding Young Scholars

H
CAAS I C
S



C F
CAAS I
F

Scientists listed in the National Hundred, Thousand and Ten Thousand Talents Program and named a National Young and Middle-aged Expert with Outstanding Contribution

L CAAS
I C S

G CAAS
I P P

G CAAS
I A S

C CAAS
B R
I

C CAAS I
A R
R P

G CAAS I

Leading Young and Middle-aged Scientists in Science and Technology Innovation in the Innovators Talent Promotion Program

L
CAAS
I C S

G L
CAAS
I P P

L
CAAS
I A
R

C
CAAS I
F S

R
CAAS
I A
R
R P

L C
CAAS
H
R I

G H
CAAS
L
R I

Honors and Awards

Leading Young and Middle-aged Scientists in Science and Technology Innovation in the Innovators Talent Promotion Program

C G ,
CAAS
S
R I

L S ,
CAAS S
A
G I

First National Award for Excellence in Innovation (Medal winners)

L S ,
CAAS I
C S

H ,
CAAS I
C S

First National Award for Excellence in Innovation (Certificate winners)

H S ,
CAAS I
A S

G ,
CAAS I
C R

CAAS 60th Anniversary: Progress and Influence

E 1957, CAAS 60 C C C P C C CAAS CAAS

O 60 CAAS 6,131 310 16.2 19 24

Developing important cultivars to support food security: CAAS 480,000 CAAS 360 160 CAAS 1,662 1957 6,058.5 2017.

ID- 2005 N P P

D 2010 N P P

C 2012 N P P

Accelerating transferring of its research findings to support the supply of agricultural products: CAAs [illegible] C [illegible] 8 [illegible] 52 [illegible] D [illegible] 75 [illegible] C [illegible] CAAs [illegible] 200 [illegible] 40 [illegible] 97 [illegible]

N [illegible] D [illegible] 2007 N [illegible] P [illegible] P [illegible]

Developing characteristic industries to increase farmers incomes: CAAs [illegible] 390 [illegible] 1 [illegible] 60 [illegible] C [illegible] CAAs [illegible] 340 [illegible] 1997 790 [illegible] 2017, [illegible]

B [illegible] 1985 N [illegible] A [illegible]

C [illegible] 2012 N [illegible] P [illegible] P [illegible]

E [illegible] 2004 N [illegible] P [illegible] P [illegible]

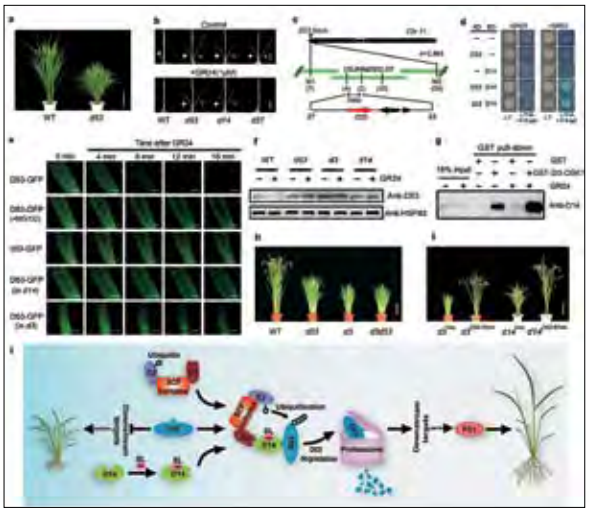
Preventing and controlling major animal epidemics, safeguarding public hygiene and safety: CAAs [illegible] A [illegible] CAAs [illegible] 95 [illegible] A [illegible] CAAs [illegible] C [illegible] CAAs [illegible]

E I A L A
1983 N A I

1999 N A I
1987 2016 N P P

Strengthening original research and innovation to make breakthroughs in science and technology: CAAs (D), C 30 CAAs 20 N CAAs C 2016 R

B 10 2008



10 C 2014

Making breakthroughs in key technology to promote sustainable development: R&D CAAs I CAAs CAAs 1960 6.67 3 CAAs 2012 N P P s 2014

Prompting the going global of agricultural science and technology to increase China s international influence: CAAs B R I 60 150 A A A E 64 A A 2 C C C A 60 CAAs E s A 570

N C C G C A A A E N A

L CAAs

Strategic Programs

Talent Project

1. Young talent project Plan (2017-30)

P P (2017-30) CAAs 2017 CAAs I 2030, CAAs 4,750 45 A 3,450, 340, 960 570.

2. Special support policies for outstanding agricultural talent

CAAs

CAAs, CAAs F 2 (312,500) ( ) 500,000 (78,138) ( ). C A 1.5 (234,415) ( ) 300,000 (46,883) ( ). C B 1 (156,276) ( ) 250,000 (39,069) ( ). C C 800,000 (125,021) ( ) 200,000 (31,255) ( ). 600,000 (93,736) ( ) 100,000 (15,622) ( ).

CAAs 259 2017, 12 , 154 93

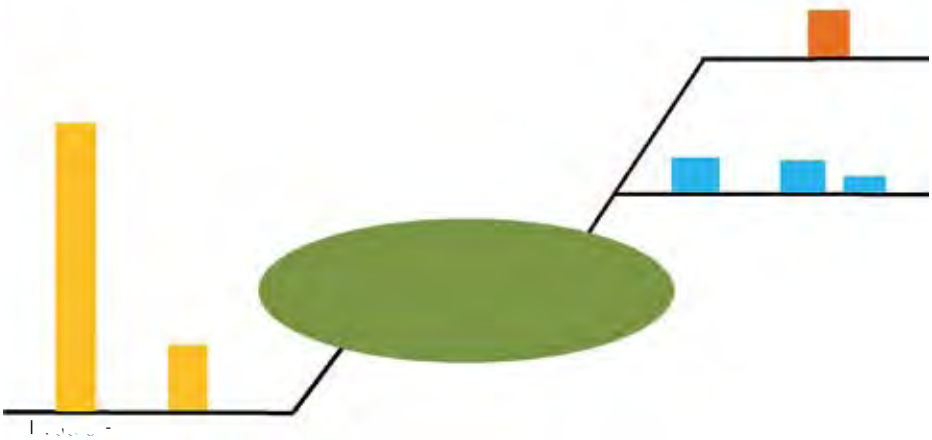
3. The Elite Young Scientists Program

E s P CAAs 2013 C 55 2014 I 2017, CAAs

40

2017, 12

22



4. Post-doctoral work

CAAs 1991.

1,463

127 C 48 2017, CAAs 152

470 CAAs.

ASTIP has three phases concurrent with the 12th, 13th, and 14th Five-Year plans (2013-25).

The first phase of ASTIP (2013-15)

The second phase (2016-20)

The third phase (2021-25)

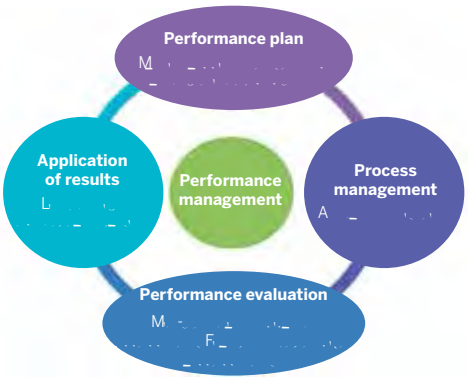
Agricultural Science and Technology Innovation Project

1. Assigning missions during the overall pushing-forward period

2017 A I - P (A IP) CAA A IP

2. Strengthening performance management

CAA A IP A IP



3. Promoting collaborative innovation

CAA 19 P A A

4. Organizing the pilot work of the agricultural genome research institute

CAA A G I M

Research and Demonstration Program on Integrated Technology-based Green Production

CAAs

C

12 180

38

120

28,700

450,000 ;18

Intellectual Property Achievements

Strengthening guidance and coordination. CAAs

Strengthening training and education. CAAs

IPR

PIPRA C D

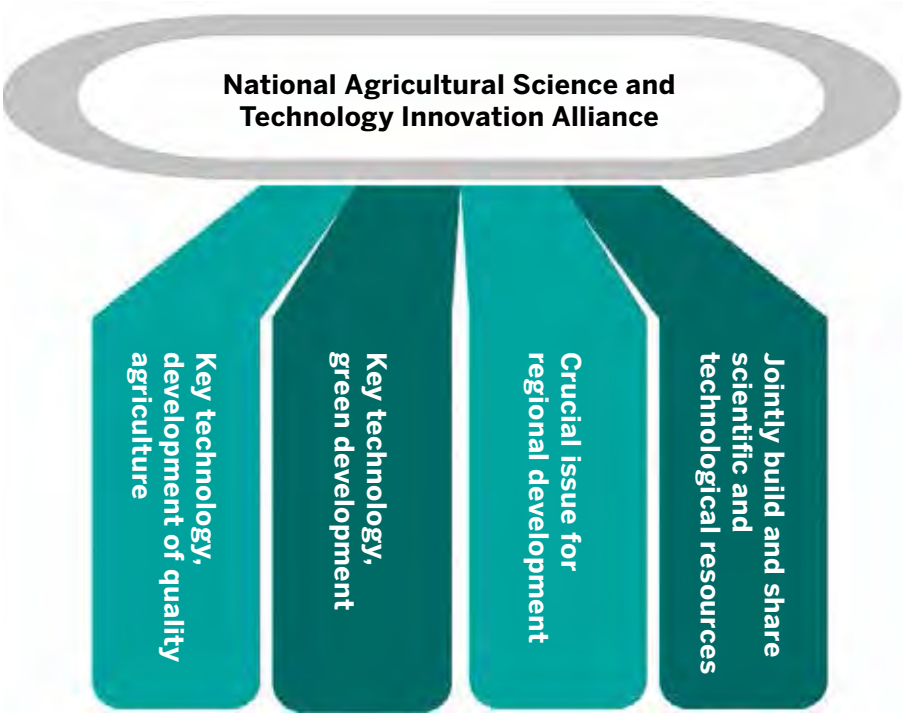
IPR M

Strengthening the transformation and application of research results. CAAs

28 10

10,000

CAAs



National Agricultural Science and Technology Innovation Alliance

I 2017, N A s I A

First, the alliance has tackled some key technologies crucial for quality-oriented agriculture, and created a batch of technological products.

23

26,700

Second, the alliance has made breakthroughs in a batch of key technologies for the development of green agriculture, and integrated and demonstrated a batch of technologies.

J

N C 5 10

10

Third, the alliance has focused on important regional issues, form-

Major New Scientific Projects

[illegible] CAAS [illegible] 2017.

National (Chengdu) Agricultural Science and Technology Center

CAAS [illegible] C [illegible] N [illegible] (C [illegible]) A [illegible] C [illegible] C [illegible] 1 [illegible] (156 [illegible]) [illegible] 200 [illegible] 30 [illegible] (4.7 [illegible]) [illegible] C [illegible].

Western China Agricultural Research Center

CAAS [illegible] N [illegible] A [illegible] P [illegible] C [illegible] H [illegible] N [illegible] C [illegible] C [illegible] A [illegible] 2017, [illegible] 13.67 [illegible] 133.33 [illegible] C [illegible].

Project for a national high-grade laboratory for animal epidemic and disease prevention and bio-safety control

[illegible] I [illegible] 20,000 [illegible] S [illegible] M [illegible]

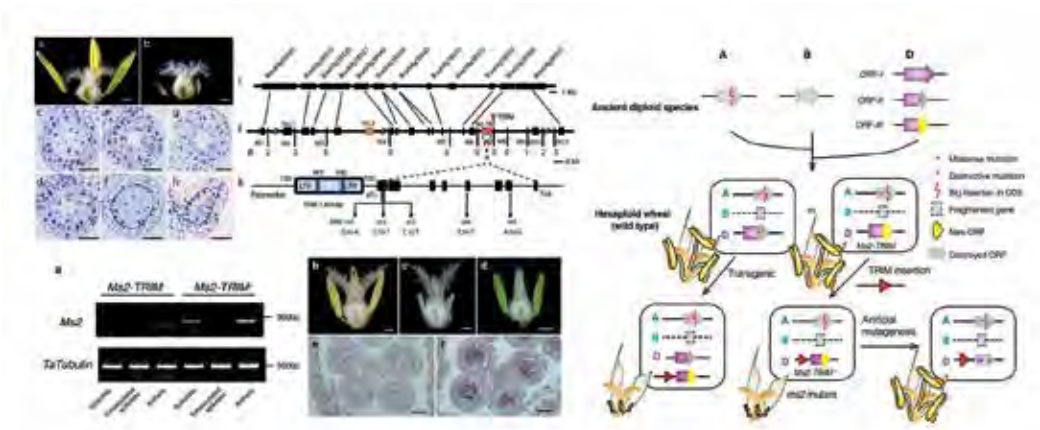
The national livestock and poultry improvement research center project

[illegible] 30,000 [illegible] C [illegible] I [illegible]

Crop Science

(1) Discovery and use of wheat gene resource

The Crop Gene Resource Innovation Team is led by Prof. ZHANG Xueyong at the Institue of Crop Sciences, Chinese Academy of Agricultural Sciences. The team constructed the second version of the genome sequence for the wheat D genome donor, *Aegilops tauschii* and developed a 660K SNP chip for wheat with the collaboration of Prof. JIA Jizeng and Prof. KONG Xiuying. This innovation provides genomic tools for genotyping wheat germplasms on a large scale. They also isolated the *Ms2* gene from the Taigu male sterility wheat by map-based cloning. This will significantly widen the application range of crop recurrent selective breeding, and raise breeding efficiency. In genetic effect dissection of starch synthesis pathway to yield, Prof. ZHANG Xueyong et al. found that haplotypes of the key enzyme coding genes in the pathway such as *TaSus1*, *TaSus2*, *TaAGP-L*, and *AGP-S1* have profound additive effects on wheat grain size and weight. These loci experienced strong selection during wheat domestication and breeding. Prof. JING Ruilian et al. found that breeding favored haplotypes of *TaSPL20* and *TaSPL21* providing more functional stability on yield under drought or heat stress environments. In addition, Zhongmai 66 was commercialized in Henan Province, China in 2017.



M. 2 (N C , 2017, 8: 15407)

(2) Development of genetically modified soybean with herbicide resistance

G [illegible] *G2-EPSPS GA* [illegible] *G10-EPSPS* [illegible] P [illegible] Ql L [illegible] I [illegible] C [illegible] S [illegible], C [illegible] A [illegible] A [illegible] S [illegible] GE-J3, GE-J12 [illegible] GE-J16 [illegible] *G2-EPSPS GA* [illegible] O [illegible] H10-6 [illegible]

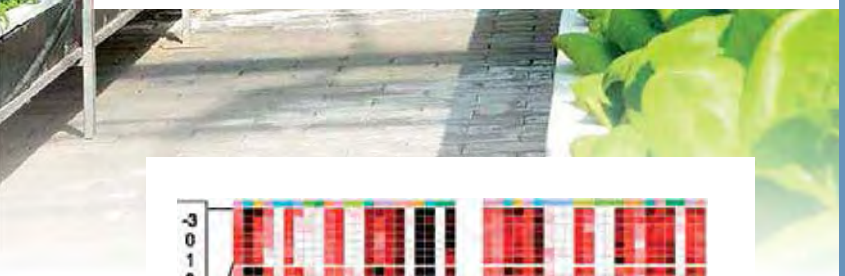
C [illegible] H10-6([illegible]) [illegible] H10([illegible]). [illegible] H10-6 [illegible] ([illegible])

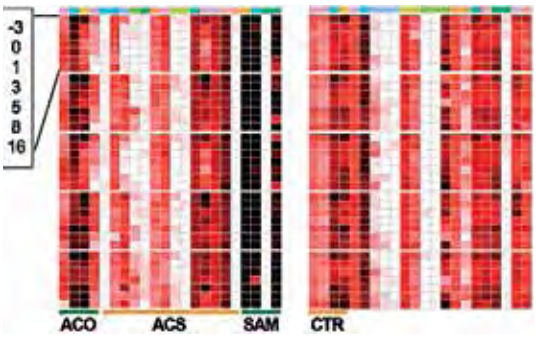
(3) Breeding of good quality, high-yield, and high fertilizer use efficiency (super efficiency) *indica* rice varieties in the middle and lower Yangtze River region, China

[illegible] P [illegible] H P [illegible] C [illegible] N [illegible] R [illegible] R [illegible] I [illegible] R [illegible] C [illegible] C [illegible] 11 [illegible] ([illegible])

(4) Collection, documentation, banking, and conservation of crop germplasm resources

A [illegible] P [illegible] L [illegible] I [illegible] C [illegible] C [illegible] A [illegible] A [illegible] C [illegible] D [illegible] B [illegible] C [illegible] C G [illegible] R [illegible] N [illegible] K [illegible] R&D P [illegible] C [illegible] C [illegible] N [illegible] C G B [illegible] 11,000 [illegible] A [illegible] : I [illegible] F [illegible] 420,000 [illegible] C [illegible] N [illegible] C G B [illegible] I [illegible] 398 [illegible] (37 [illegible]) [illegible] 166 [illegible] (12 [illegible]).





D

Horticulture Science

(1) Genetic mechanism of cucumber fruit morphogenesis

P H ANG

F C

A A

105

(

0, 1, 3, 5, 8 16

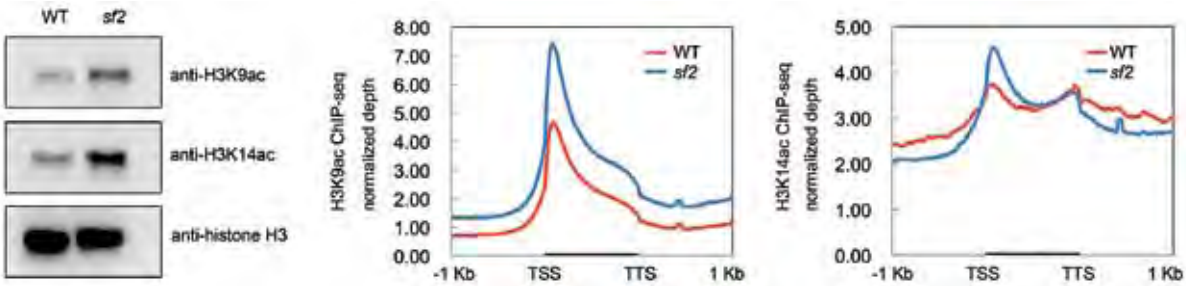
).

G540E R 3.

F1

RING- E3

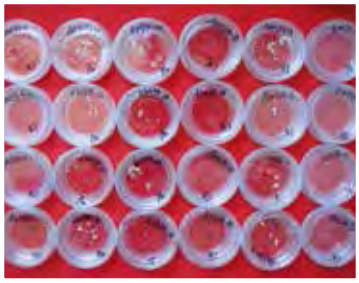
C 2



F2

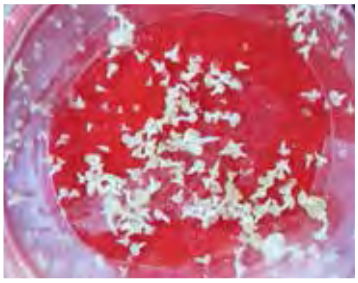
(2) Innovation of high-strength hybrids and technologies for utilization of heterosis in vegetable crops

A P . LI J I - F , C A A P - 883 C , 1,037 , 205 , 1,904 459 120 C 502 C C G C (B R 1), (-15[26]) (H) H B C (gl) 5, 100 . M 50 - 20.3



M C

H C



The technology of high-through microspores embryogenesis in Chinese cabbage

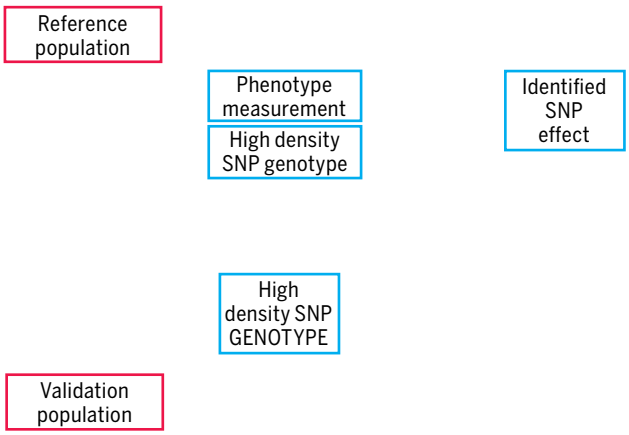
(3) Investigation and collection of indigenous varieties of deciduous fruit trees in the predominance region

A P CAO F R I C A A 210 21 1,400 351 500 A 1,400 Gl 844 F H P A C F P 14 C

Animal Science

(1) The construction and application of whole genome selection technology system for molecular breeding in beef cattle

C A
P LI J I
A C A A
C
M
(GCBI)
M
10K NP
B
NP
B
I
M I
J H
1.148 (179
).



(2) The research and application of new alternatives to antibiotics (ATA) for feed usage

A A P . ANG F R I , C A A (AMP.) MP DLP (MIC 0.063-8 L-1) -E (MIC 0.25-2 L-1) (MIC 0.125-2 L-1) N CPP 11-N AMP. AMP. 2-3 L-1 L I D I 50-80 . A , 25 A A. 169,900 , 767 (120), 147 (23) 30 (4.7), . A 20,400 . A.

(3) The research and application of key technology of high quality forage in the semi-arid area of North China

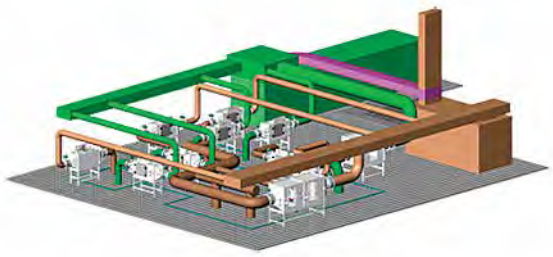
A P . HO G R I , C A A N C . C , 13 F G B C A C G B N C . F 2008 2015, 1.65 1.04 11.57 (1.81), N C .

Veterinary Medicine

(1) Localization study of simulation BSL-4 laboratory

4 (BSL-4) N K R&D P 13 F P P (2016-20). I L S S BSL-4 L P ANG H R I C A A S R H N B I R BSL-4 R A

E BSL-4



L BSL-4

H

(2) Studies on the new diagnostic and detection technology of important infectious diseases of poultry

P . ANG H R I , C A A - 15 , N E B 30 - I M M A F A

(3) Study on the evolution and mechanism of pathogenesis and transmission of animal influenza viruses

P . CHEN H H R I , C A A H7N9 2017 (HA) H7N9 PB2 H7N9 B H7N9 I E A - H1N1 225 HA M G158N N- 158 160 HA N- H5N1

(4) Research on the development and industrialization of the new animal-specific chemical drugs

L P HANG J L
I H P
S C A A
S

HPLC Ms

100,000
A

Agricultural Resources and Environment

(1) Accounting method of environmental pollution of livestock and poultry manure and research and development of the key treatment and application technology

A P. DONG H I E D A, C A A ①: C ②: ③: C N M P (CNMP) 2,687 11 C 1.59 124,000 24,000 3.26 (509). A B F N C P C C A E O I G M P (2014-2018) I O M A C F A A N P

(2) Fertilizer recommendation approach and directives

A P H P I A R R P C A
A s :①
N E D s s C
;②
R B ;③
;④
C ;⑤
F
N E

Q EF s

(4) The outbreak mechanisms and green control techniques of key mirid pests

A
P K
I P P
C A
A S

4.8

95 90

85 90

B

3-5

30-50

2020 C

Agro-product Quality, Safety and Processing

(1) The development and application of key technologies for potato processing as a staple food

A P HANG H
I F
C A A

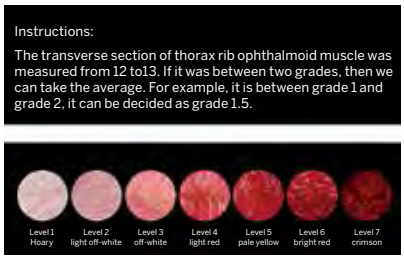
(PsFP) PsFP
N
200
50
C
C
189,000
4.54 (709
)
890 (139). I
200,000
400
(62.48).

(2) The formation and control mechanism of mycotoxins during the storage of major grains and oil products

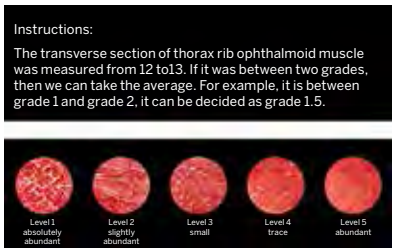
P . LI I F , C A A

(3) Study on state or industry standards and reference materials for the quality evaluation of noval additives and superior agricultural products

A P ANG I Q A -P C A A 10 23 A -L C



Series grades photographs of pork color



Series grades photographs of pork marbling

Series grades photographs of pork fat color

Standard wheat sample of unsound kernel

Moldy kernel

Spotted kernel

Injured kernel

Broken kernel

Standard corn sample of unsound kernel

Agricultural Information and Economics

(1) The Creation and Application of the Internet+Agricultural Technologies Extension Cloud Platform

A P ANG A I I C A A s I A E 40 I A E 2,600 C I N E F M s A 10- s A E M A C I C P C s

(2) Research on the Benefit Compensation Mechanism in the Grain Production Functional Zone and the Protection Zone of Important Agricultural Products

B ( ). P ANG J I A E D C A A s I C A

Domestic Cooperation

(1) Pragmatic cooperation with local governments

CAAS [illegible] A [illegible] H [illegible] D [illegible] F [illegible] A [illegible] CAAS [illegible] A [illegible] R&D [illegible] CAAS [illegible]

CAAS [illegible] A [illegible] R [illegible] A [illegible] R [illegible] P [illegible] C [illegible] C [illegible] CAAS [illegible]

(2) Targeted poverty alleviation with science and technology

CAAS [illegible] F [illegible] M [illegible] E [illegible] M [illegible] G [illegible] H [illegible] M [illegible] I [illegible] F [illegible] CAAS [illegible] I [illegible] CAAS [illegible] I [illegible] F [illegible] F [illegible] R [illegible] I [illegible] I [illegible] A [illegible] R [illegible] 27 [illegible] M [illegible] 2,800 [illegible]

International Cooperation

I 2017, CAAs B R I

CAAs

(1) Organizing a series of important international activities for the 60th anniversary of CAAS

CAAs 60 J

CPC C C A

A D

C -E A C G M C -A A R

I 10. 10 C M C

G 2017 (I N

E C E C P G P E)

I C B I

C B R I

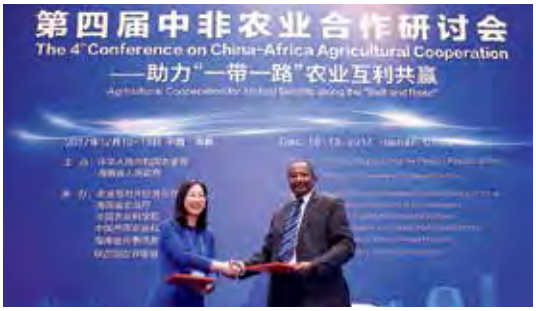
CAAs

(2) Advancing the work of the CAAS Center for International Agricultural Research

CAAS D P CAAS C I A R (CIAR). CIAR 15 65 B R I I 32 . CIAR I CIAR

(3) Leading the work of organizing international cooperation on agricultural technology nationwide, actively pushing forward and cultivating international cooperation on big science projects

22 C CAAs CGIAR, CABI, E , G20, APEC A G IAEA, CAAs C -A A R I 10 10 C M M A R A- C CAAs CGIAR, E INRA F C I R O A N F C K .



(4) Actively expanding international partner relations, optimizing its globalization layout

CAAS 23 A A-F C C R I C R M N A A S C C I F R N A S P C C-C R A R C C-C J A R C C-R K J L M P C-R J L C-R G G C-N J L F P A 16 FAO, IAEA, CGIAR CABI. CAAS

(5) Implementing international cooperation projects and carrying out talent training

CAAS M S B R I C S I 2017, CAAS 438 174 104 (16.24). 20 629 28

(6) Pushing forward the going global of agricultural science and technology

I 2017, CAAS R , P I . I
I . C C -K A S J L ,
CAAS .

M , CAAS 70 S A
. I I .

A , CAAS 68
18 A A .

; -
, I S S S C M F 203
32 B R I .

Scientific advances make rich harvests

CELEBRATING 60 YEARS OF SUCCESS

Through decades of groundbreaking research and innovation, CAAS has contributed to improving food supply, security and safety worldwide

What they say

[illegible]

01

02

03

04

Graduate Education

I 2017, G C A A (G CAA) I G A P C C G Q A A M E 2017, CAA G C , P P , A H A B A R E A. F F E , H , E A B. O E M A F B.

A G 1,797 556 508 ( ). A 5,119 1,595 3,524. I 2017, G 1,591 (335 , 754 , 258 , 203 41). A 1,083 231 P D 852

I 2017, G 203 . O , 184 P D 101 C G G 394 357 38 30 CAA 53 A , A , E , A O . A 46 39 P D 7 CAA G C G E O 2017.

7.21
billion yuan
in annual revenue
($1.13 billion)

Field Stations

CAAs [illegible] 103 [illegible] 27 [illegible] ([illegible]). [illegible] 6,074 [illegible] 1,250.

In 2017, CAAs [illegible] 220 [illegible] (34.36 [illegible]) [illegible] 67 [illegible] 21,700 [illegible] 112.93 [illegible] 77 [illegible] , 370 [illegible] 1,429 [illegible] 566 [illegible] (88.41 [illegible]). [illegible] , CAAs [illegible] 49 [illegible] 2,253 [illegible] 153 [illegible] 567 [illegible]

[illegible] 274 [illegible] 21,000 [illegible] 189 [illegible] 22,000 [illegible] 279 [illegible] 3.84 [illegible] 96 [illegible] 3.86 [illegible] 1.04 [illegible] 36 [illegible] 3.07 [illegible]

Organizational Structure of CAAS

President

Secretary of Leading Party Group

Vice-Presidents

Administrative departments

G O
D R M
D P
D F
D I
D I C
D A
CAAS P C
D S A

L S C

G S CAAS

INSTITUTES IN BEIJING

I C S
I P P
I F
I E S-
D A
I A S
I A R
F R I
I F S-

B R I
I A E
D
I A R
R P
A I I
I Q S
A -P -
I F N D -
MOA

INSTITUTES OUTSIDE BEIJING

E I R I
(H)
C N R R I
(H)
I C R (A ,
H)
O C R I (
H)
I B F C (C ,
H)
I P (L)
F R I
R I (H)
H R I
L R I
L I H P-
S
S R I
I G R (H ,
I M)
I S A P S-
(C , J)
A -E P I
MOA ( )
B I MOA (C S-
)
N R I A
M MOA (N , L)
I R (Q ,
S)
A G I (S -
, G)
I A R I
(C , S)

CO-HOSTED INSTITUTES

C R I
(C , S)
I S B (H -
, H)
S R I-
(, L)
I C A-
H R
(N , L)
B R I
(N , G)
G E R -
I (L ,
G)
P I (,
L)
S P R I-
(, L)
C R -
I

C A S P

Key Laboratories and Centers

1 Major national facilities

No.	Facilities	Research	Institutes
1	National Key Facility for Crop Gene Resources and Genetic Improvement	New gene discovery and germplasm innovation; crop molecular breeding; crop functional genomics; plant proteomics; and crop bioinformatics.	Institute of Crop Sciences Biotechnology Research Institute
2	National Center for Agricultural Biosafety Sciences	Significant agricultural and forestry diseases and insect pests; invasive alien species; and genetically modified organism biosafety for agriculture and forestry.	Institute of Plant Protection

2 Key national laboratories

No.	Facilities	Research	Institutes
1	State Key Laboratory for Biology of Plant Diseases and Insect Pests	The mechanisms of calamities caused by important crop diseases and insect pests, monitoring and forecasting, and control technologies; the mechanisms of invasive alien species; functional genome for plant protection, and gene biosafety.	Institute of Plant Protection
2	State Key Laboratory of Animal Nutrition	Nutritional requirements and metabolic regulation; feed safety and evaluation; animal nutrition and environment; animal nutrition and immunology; molecular nutrition and genetics.	Institute of Animal Sciences
3	State Key Laboratory of Rice Biology	Genetic basis of rice germplasm improvement and innovation; physiological and the biochemical mechanism of rice growth and development; interrelation studies between rice plants and environment, and rice molecular breeding.	China National Rice Research Institute
4	State Key Laboratory of Veterinary Biotechnology	Genetic engineering of animal pathogens, cell engineering, molecular biology, and other areas of basic research in veterinary medicine.	Harbin Veterinary Research Institute
5	State Key Laboratory of Veterinary Etiological Biology	Infection and pathogenesis; etiological ecology, immunity, early warning and prophylaxis of veterinary and major zoonotic diseases .	Lanzhou Veterinary Research Institute
6	State Key Laboratory of Cotton Biology	Cotton genomics and genetic diversity research; cotton quality biology and functional genes research; cotton fiber yield biology and genetic improvement research; and cotton stress biology and environment regulation research.	Institute of Cotton Research

3 International reference laboratories

No.	Facilities	Research	Institutes
1	FAO Reference Center of Animal Influenza	The Laboratory is in charge of the confirmative diagnosis of highly pathogenic avian influenza, animal influenza surveillance, development and update of vaccines and diagnostic reagents.	Harbin Veterinary Research Institute
2	FAO Reference Center of Biogas Technology Research and Training	Policy study and technology research in biogas-related sectors.	Biogas Institute of the MOA
3	OIE Reference Laboratory for Equine Infectious Anemia	Research focused on epidemiology and immunology of Equine Infection Anemia. An equine infectious anemia virus vaccine model is used to study the mechanism of protective immunity for lentiviruses.	Harbin Veterinary Research Institute
4	OIE Twinning Laboratory for Equine Influenza	The laboratory is to carry out the research on the epidemiology, etiology, and diagnosis of Equine Influenza and development of a vaccine and diagnostic reagent.	Harbin Veterinary Research Institute
5	OIE Foot and Mouth Disease Reference Laboratory	Technical consultations and services, etiology studies, molecular epidemiology research and immunology research; R&D on techniques and products for FMD prevention and control.	Lanzhou Veterinary Research Institute
6	OIE Ovine Theileriosis Reference Laboratory	Pathogen identification, epidemiology, diagnosis, prevention and control of ovine theileriosis.	Lanzhou Veterinary Research Institute
7	OIE Reference Laboratory for Infectious Bursal Disease	Studies related to basic pathogen research, epidemiological studies and the prevention and control of the infectious bursal disease virus.	Harbin Veterinary Research Institute
8	OIE Reference Laboratory for Avian Influenza	In charge of the confirmative diagnosis of avian influenza, avian influenza surveillance, development and update of vaccines and diagnostic reagents.	Harbin Veterinary Research Institute
9	OIE Collaborating Center for Zoonoses of Asia-Pacific	Carries out research on the regional epidemiology, etiology, the mechanism of inter-species pathogen transmission, molecular mechanism of pathogenesis and immune mechanism.	Harbin Veterinary Research Institute

4 High Containment Facilities

No.	Facilities	Research	Institutes
1	National High Containment Facilities for Animal Diseases Control and Prevention	To meet the demands of the national biosafety strategy and public health. To carry out related basic and applied research of major zoonoses and severe exotic diseases.	Harbin Veterinary Research Institute