

UK-China CERAD

**CENTRE OF EXCELLENCE FOR RESEARCH
ON AVIAN DISEASES**

WORKING TOGETHER
FOR POULTRY HEALTH



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BBSRC National Vaccinology Centre: The Jenner Building, The Pirbright Institute, UK



Shandong Binzhou Animal Science and Veterinary Medicine Academy, China

CENTRE OF EXCELLENCE FOR RESEARCH ON AVIAN DISEASES

UK-China CERAD is a virtual centre for the state-of-the-art research and training for UK and Chinese scientists and students through joint research projects, exchange visits for training and education on new technologies for disease control as well as organising international conferences. It was jointly established by The Pirbright Institute, UK and Shandong Binzhou Animal Science and Veterinary Medicine Academy, China.

THE COORDINATING COMMITTEE IS LED BY AVIAN DISEASE RESEARCH EXPERTS FROM THE UK AND CHINA:



CERAD Coordinators Professor Venugopal Nair OBE of The Pirbright Institute, Professor Zhiqiang Shen of Shandong Binzhou Animal Science and Veterinary Medicine Academy



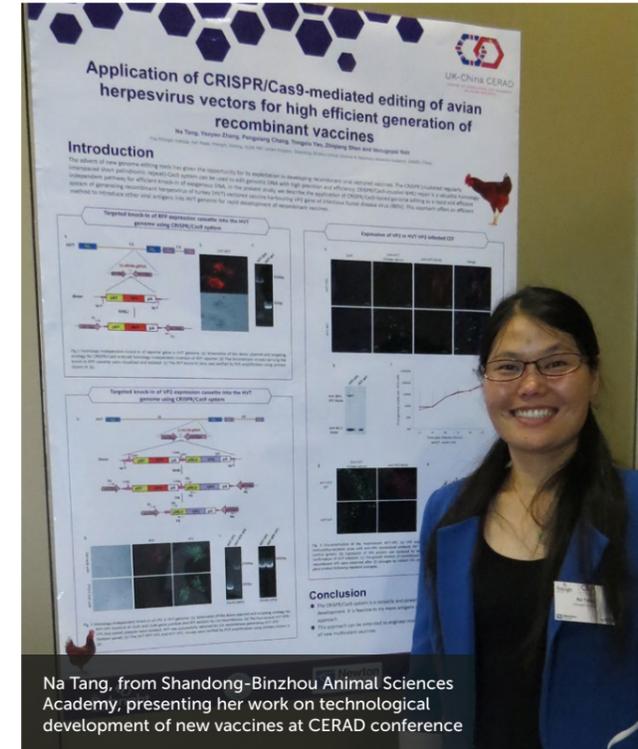
The Inauguration of the UK-China Centre of Excellence for Research on Avian Diseases (CERAD) and Symposium on Recent Advances in Avian Disease Research, Binzhou, China, April 2015

CERAD'S MISSION AND VISION

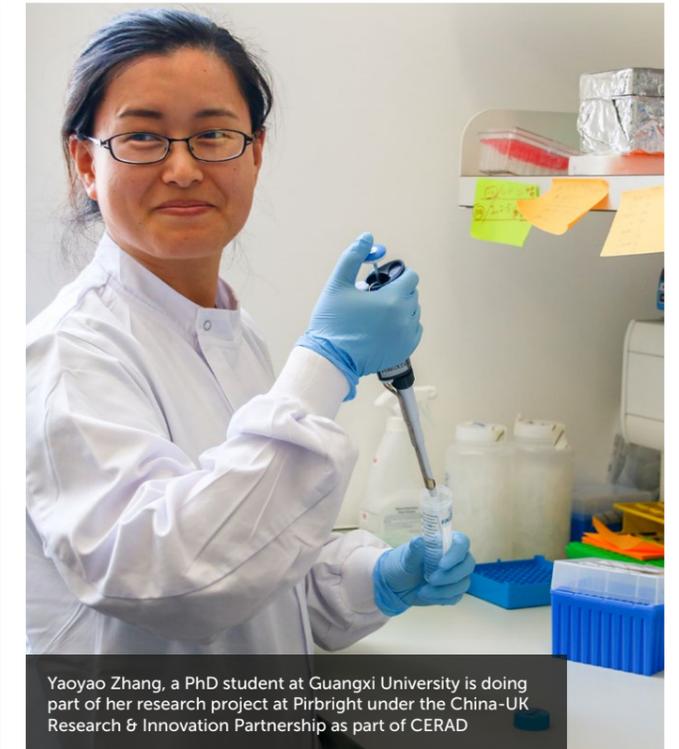
The poultry industry is a fast-developing sector which plays a crucial role in global food security. The UK poultry broiler industry contributes to approximately £3.6 billion of the goods and services provided in the country. The poultry sector in China produces around 7 billion broilers and 1.5 billion layers. Sustained growth in both countries is hampered by continued challenges from a large number of avian diseases. Funded by the Biotechnology and Biological Sciences Research Council (BBSRC) and Newton Fund, the Centre of Excellence for Research on Avian Diseases (CERAD) will enable scientists to carry out fundamental and applied research in improving poultry health.

THE MAJOR AIMS OF CERAD ARE TO:

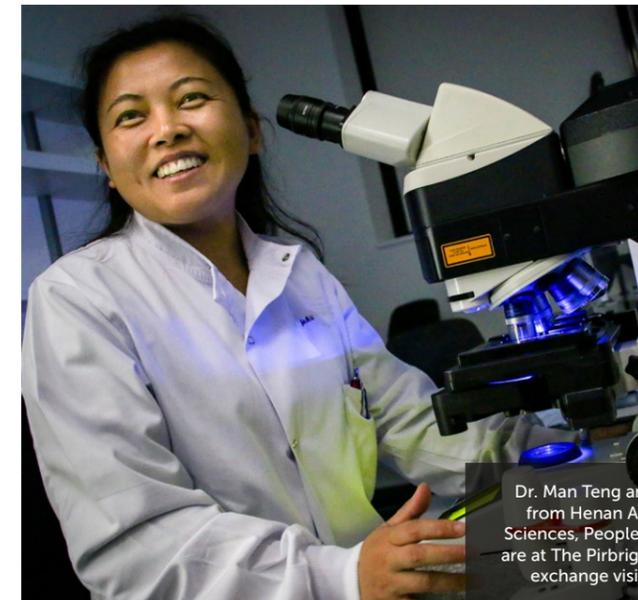
1. Identify major avian disease challenges to develop joint research strategies to combat losses in both countries
2. Develop a platform for research partnerships between UK and Chinese Academic Institutions in avian disease research
3. Apply for joint research funding in both countries to strengthen the research base on avian diseases
4. Developing future researchers in avian diseases through training of students and post-doctoral fellows
5. Build plans for knowledge exchange and commercialisation from the joint research efforts



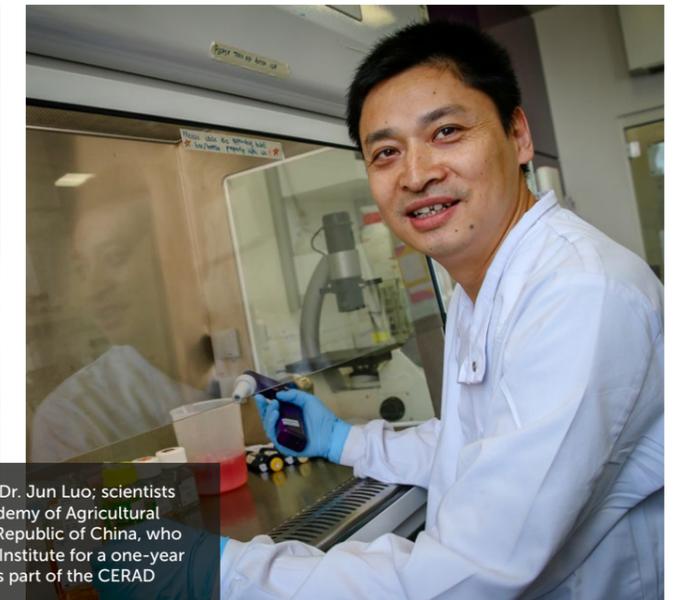
Na Tang, from Shandong-Binzhou Animal Sciences Academy, presenting her work on technological development of new vaccines at CERAD conference



Yaoyao Zhang, a PhD student at Guangxi University is doing part of her research project at Pirbright under the China-UK Research & Innovation Partnership as part of CERAD



Dr. Man Teng and Dr. Jun Luo; scientists from Henan Academy of Agricultural Sciences, People's Republic of China, who are at The Pirbright Institute for a one-year exchange visit as part of the CERAD

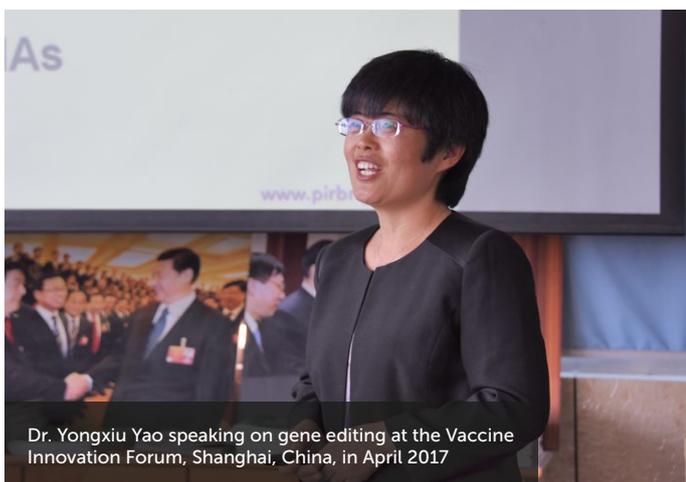


Participants of the UK-China Centre of Excellence for Research on Avian Diseases (CERAD) and Symposium on Recent Advances in Avian Disease Research, Binzhou, China, April 2015



Participants of the 3rd CERAD Symposium, Guildford, UK, August 2017

3rd Symposium



Dr. Yongxiu Yao speaking on gene editing at the Vaccine Innovation Forum, Shanghai, China, in April 2017



Professor Venugopal Nair OBE of The Pirbright Institute sharing data with students at CERAD in Binzhou, China

ACHIEVEMENTS TO DATE

- 12 Joint research papers published
- 9 Exchange visits undertaken
- 7 Joint grants won
- 5 Conferences organised
- 4 Joint agreements signed



A new grant was initiated under the BBSRC Newton Fund on Swine and Poultry Research Initiative for combating avian tumour diseases particularly in native chicken breeds in China

