

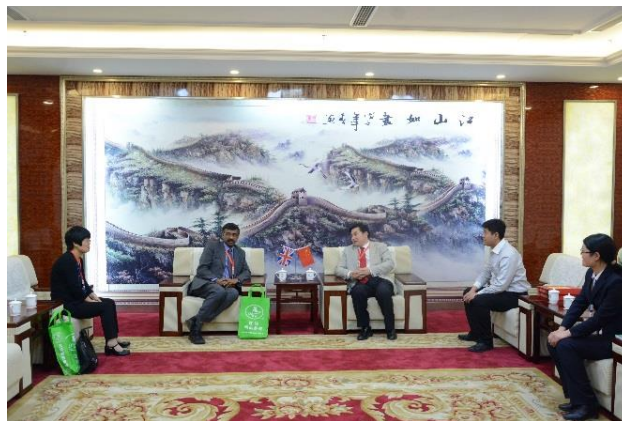
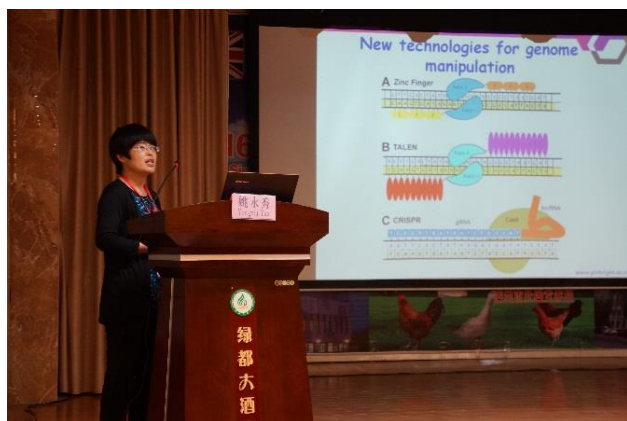
## **UK-China Centre of Excellence for Research on Avian Diseases (CERAD)**

### **Brief Profile**

This Centre of Excellence has the mission of developing research collaboration between the UK and Chinese Academic Institutions working on avian diseases. Led by the Pirbright Institute in the UK and the Shandong Binzhou Animal Science and Veterinary Medicine Academy in China, UK CERAD will act as a virtual centre for the state of the art research and training for UK and Chinese scientists and students through establishment of joint research projects, exchange visit for training and education on new technologies for disease control and organizing international conferences. After the first two very successful international meetings held in Binzhou attended by a number of scientists from the two countries, the 3<sup>rd</sup> meeting will be held on 31<sup>st</sup> Aug- 1<sup>st</sup> Sept 2017 in Guildford, UK.



The poultry industry is a fast developing sector playing a crucial role in global food security. The UK poultry industry contributes to approximately £3.6 billion of the goods and services provided in the country. The poultry sector in China has shown tremendous growth producing around 7 billion broilers and 1.5 billion layers. Sustained growth in this sector in both countries is hampered by continued challenges from a large number of avian diseases. The five year grant funded by the Biotechnology and Biological Sciences Research Council (BBSRC) and Newton Funds towards the establishment of this Centre of Excellence for Research on Avian Diseases will enable scientists to carry out fundamental and applied research in improving poultry health in both countries.



### **Partners**

The Pirbright Institute (UK)

Shandong Binzhou Animal Science and Veterinary Medicine Academy (China)

### **Project web-link:**

<http://www.pirbright.ac.uk/news/2015/05/inauguration-new-china-uk-international-centre-research-avian-diseases>

### **Project status**

On-going (2015 – 2020)

## Knowledge Sharing and Mutual Learning 知识共享 互学互鉴

### **Output**

#### *Joint International meetings*

- Inaugural meeting of the UK China CERAD & Symposium on Recent Advances in Avian Disease Research at Binzhou Lvdu Hotel, Binzhou, China 11 - 12 April 2015.
- Second Sino-British Symposium on 'Recent Advances in Avian disease Research at the LVDU International Hotel, Binzhou, China 26 - 28 March 2016
- Third Symposium on Recent Advances in avian disease research will be held at the Harbour Hotel, Guildford, United Kingdom during 31<sup>st</sup> August- 1<sup>st</sup> September 2017.

#### *Joint research publications*

- Yongxiu Yao, Deepali Vasoya, Lydia Kgosana, Lorraine Smith, Yulong Gao, Xiaomei Wang, Mick Watson, and Venugopal Nair (2017). Activation of gga-miR-155 by reticuloendotheliosis virus. Journal of General Virology [doi.org/10.1099/jgv.0.000718](https://doi.org/10.1099/jgv.0.000718)
- Yanni Gao, Yao Zhang, Yongxiu Yao, Xiaolu Guan, Yongzhen Liu, Xiaole Qi, Yongqiang Wang, Hongyu Cui, Changjun Liu, Yanping Zhang, Honglei Gao, Venugopal Nair, Xiaomei Wang and Yulong Gao (2016). Avian leukosis virus subgroup J promotes VEGF expression via NF-κB/PI3K-dependent induction of IL-6 expression **Oncotarget** doi: 10.18632/oncotarget.13282.

#### *Exchange visits/Joint studentships/training*

- Dr. Kun Qian, Scientist from College of Veterinary Medicine, Yangzhou University, China was at the Pirbright Institute as an Academic Visitor from September 2014 to August 2015.
- Na Tang, scientist from Shandong Binzhou Animal Science and Veterinary Medicine Academy is currently visiting Pirbright Institute for one year from September 2016.
- Jun Luo & Man Teng, Scientists from the Key Laboratory of Animal Immunology, Henan Academy of Agricultural Sciences, Zhengzhou, China will visit Pirbright Institute for one year from September 2017.
- China-UK Research and Innovation Partnership Fund (British Council): Yaoyao Zhang, College of Animal Science & Technology, Guangxi University, China on 1-year PhD placement at Pirbright.
- To enhance scientific knowledge exchange in poultry health, we are also running an Annual Poultry Health course jointly with the University of Nottingham, see details at <http://www.poultryhealthcourse.com/>

#### *Invited Talks*

- V Nair gave the Key Note speech 'Control of avian diseases - New challenges and opportunities' at the China-UK CERAD on 27-03-2016 at Binzhou, Shandong, China.
- V Nair presented his vision on 'Marek's disease control: Sustaining an effective vaccination strategy' at the College of Veterinary Medicine, Northwest A & F University, 3 Taicheng Rd, Xianyang, Shaanxi, China.
- V Nair talked on the 'The global impact of avian viral diseases' at the Symposium on Recent Advances in Avian Disease Research held at Shandong Province, China on 11<sup>th</sup> April 2015.
- V Nair talked on 'Chicken viruses and cancer' at Yunnan Tropical and Subtropical Animal Virus Diseases Laboratory in Kunming, China on 8<sup>th</sup> April 2015.

### **Funder**

BBSRC-Newton Fund

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