

(Abroad • Domestic) Official trip report form (Student)

20150716 (Year/Month/Day)

Name	Zhifu Shan
Laboratory	Laboratory of Veterinary Hygiene
Year (Grade)	D3
Destination	Colorado State University at Fort Collins, USA
Period of trip	May 25 <sup>th</sup> - May 31 <sup>st</sup>
Purpose of trip	To attend and make the poster presentation in International Prion Research Conference (Prion 2015).

### Summary of activities

The International Prion Research Conference is the biggest event for prion researchers annually and has a history of 11 years to date. The Prion 2015, was held at Colorado state university, in the peaceful town of Fort Collins, USA, from May 26-29. During the meeting, over 200 researchers from different countries attended, and the congress contains a pre-congress that is human, animal and yeast prion workshop; the main congresses include keystone presentations on history of prions and future directions in prion research by pioneers Byron Caughey and Reed Wickner. Three plenary talks by Claudio Soto, Karen Ashe and John Collinge, 22 invited and 20 selected talks from leading researchers from around the world.

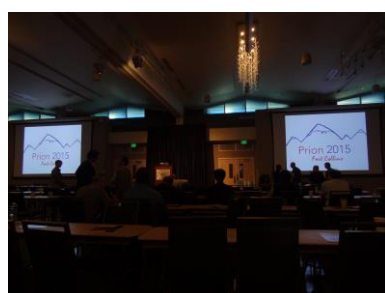
The conference aims at inspiring fruitful collaboration between the world's leading experts, highly esteemed researchers, postdoctoral fellows, students, clinicians and policy makers from the prion field, who will gather to exchange their latest findings and shape the future of prion research together. For this purpose, I listened to the oral presentations to know the hot point of the prion studies these days in different field, such as prion propagation, the mechanisms of prion diseases, the structure or function of prion proteins and the topics in animal prions. Moreover, I attended the poster sessions and made a poster presentation that "High throughput detection of PrP<sup>Sc</sup> from prion-infected cells without PK treatment: cell-based ELISA for novel screening method for anti-prion compounds" on the first poster session day. I am so honored to see many researchers are interested in my study and came to my poster to see the details of my experiments or discuss with me on some questions. I also happy to find all the

audiences can understand the two novel advantages in my cell-based ELISA. Because the anti-PrP antibody mAb 132 was used as a key point and used for the detection of mice prions in my experiments, many researchers are concerned with it, especially for the possibility that if mAb 132 can be used for the detection for another animal prion strains. Actually, mAb 132 can also be used for the prion detection of human, chicken and rat, and this is one of the important basics for our future studies of anti-human PrP compounds screening. Besides, during the poster session on the second day, I visited several posters that I am interested or experiment-relevant. All the authors explained their poster well, but to my level, some of whom speaks English so fluent and adept are difficult to follow. I had to quickly check of the figures on their poster for help. This experience prompts me to make a clear figure with simple but critical explanation is more important and easier for people to follow.

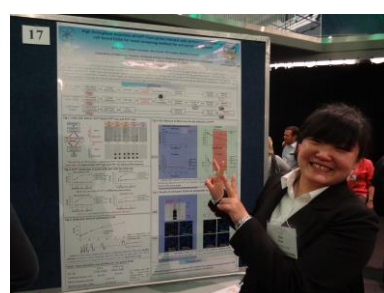
After the attendance to this conference, I got general information on study fields in different laboratories. These research backgrounds are good for me to understand papers more sufficiently. The conference also offered a good platform for communication, from the communication, I got open mind for thinking of prion studies. Finally, I want to thank professor Horiuchi and leading program give me this chance to attend Prion 2015, it is a memorable experiences and will be helpful me to study in thefuture.



**Fig 1. Prion 2015 was held at Lory Student  
Center in Colorado State University**



**Fig 2. Oral lecture**



**Fig 3. Poster presentation**

Approval of supervisor	Institution • Official title • Name : Graduate School of Veterinary Medicine Laboratory of Veterinary Hygiene Professor Motohiro Horiuchi <div style="text-align: right;">印</div>
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- ※1 Send the electronic file to the Leading School section, International Affairs Office, also submit the original print out with seal of supervisor to the Leading School section, International Affairs Office.

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