

【Campus Asia Report】 Huang Xuhao

Home university : Tianjin University of Traditional Chinese Medicine

Period of your stay : October 2017 – March 2018

Name of the host department : Bio-system Pharmacology (Kanai Lab)

1. Program description

I work in Bio-system Pharmacology laboratory as a research student for 6 months. The research is supposed to begin on October 1, 2017 and end on March 31, 2018. I work on project related in amino acids transporters and amino acids signal pathway research. My research works were under professor and assistant's supervision. We also have structure biology club on Saturdays where we learn the logical thinking and practical skills.

2. Learning outcomes

During the 6 months in Kanai Lab, I studied many experimental technologies, such as high performance liquid chromatography experiment, Cell experiments and so on. With the application of these technologies, I finished my prize of "Effect of five amino acids stimulation on mTORC1 signaling pathway in HEK293T cells." In addition, I won the prize of "Excellent Poster Presentation" at the Campus Asia Faculty meeting.

3. Experiences in the country you studied

During the 6 months in Japan, I have an excellent time. Campus Asia activities, such as visiting Osaka International Cancer Center and Osaka Prefecture Office, not only broaden my horizon but also rich my experience. What are more, Japanese historical and cultural monuments gave me a meaningful experience. For example, Temple of Golden Pavilion and Kiyomizu Temple left a deep impression on me. In terms of academic events, we participated in the Japanese Pharmacological Society and Pharmacology Alumni Association, which helps us learn and understand the progress of Pharmacology research. To sum up, this 6 months experience will have a profound influence on my future life.

4. Influence on future career goals or choices

During the period of exchange, I am following Ohgaki sensei researching in mTORC1 signaling pathway, this pathway is very intricacy, but it is very interesting. Not only I have studied about the experiment skills, but also improved the scientific research thinking which is stirring. So I want to study the amino acid sensor molecule and the mechanism of amino acid sensing further in Kanai Lab.