

海外出張報告書

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出張先	University of California Davis, Washington State University
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目的	Visitation of education and research activity Participation of One Health meeting

活動内容

During this period above, I had an opportunity to visit University of California Davis (UC DAVIS) and Washington State University (WSU) supported by Leading program. UC DAVIS has an “One Health Institute“, The Wild Life Health Center (WHC) launched in 1998, which has been dedicated to global health issues. In Washington State University (WSU), Paul G. Allen School for Global Animal Health has taken leadership in animal & public health research, global outreach and graduate education. We visited and learned their education and research activity, and participated some meetings discussing possibility for them to take in our PhD students.

【Education and research activity in UC DAVIS and WSU】

UC DAVIS

In One Health discussion in WHC, Dr Jonna Mazet, executive director & Professor, Dr Kirsten Gilardi and Dr Tracey Goldstein introduced us their activities. They have been involved in a wide range of activities, such as saving an iconic and/or endangered species, monitoring exposure to toxins, healing and stemming oiled or toxic effect in the ocean, discovering and managing diseases and linking health of animals and communities. Their field varies from land to sea, local urban area to overseas, and in mammals to invertebrates. Sometimes expanding objectives too broadly can get lost, nevertheless, their activities seemed to be well managed and controlled systematically by Dr Mazet toward the common goal, One Health.

We were shown into the Veterinary Medical teaching hospital. They have clinics for both small and large animals. The institution is huge, open 24h and 365 days, provides advanced training in 30 veterinary specialties. There were so many vets, resident DVM, students, nursing and technical staffs in each segmentalized department, and I remember the percentage of women working there was extremely high. I felt many women play a big role actively in the veterinary field. Furthermore, almost every important member who we met in both US DAVIS and WSU was female. It is a big difference from Japan and impressing for me that many female scientists are in extremely important posts.

WSU

Dr Gretchen Kaufman, assistant director for Global Health Education & Training, showed round Paul G. Allen School for Global Animal Health. The school is dealing with emerging diseases in both animals and humans through research, education, global outreach, and application of disease control at the animal-human interface. We could not see a lot, but the building and research space is well-lit, openness, clean and well equipped, research environment seemed to be good for PhD students.

In WSU, there is Bear Center for research, education and conservation of bears. We met three leading bear researchers Dr. Lynne Nelson (assistant director), Dr. Heiko Jansen and Dr. Charles Robbins (director), and were explained their ongoing studies briefly: cardiac adaptations to extreme hemodynamic and metabolic stressors in bear hibernation, the seasonal control of reproduction by using neuroanatomical approaches, and nutrition and ecology in a bear management. After that, Dr. Jansen introduced us to their facility, which was built on the WSU campus in 1986. There were 6 grizzly bears staying awake by fed in the center, and 8 hibernating bears in another facility. Some of them were tamed and can be treated directly without anesthesia. They were all monitored with camera even during hibernation and in a good state. It was really an excellent facility for studying bears.



Paul G. Allen School



Bear Center

【Proposal and suggestion received for Leading program follow-through】

At these two universities, we had opportunities to accompany Prof. Tsubota introducing Leading Program and discussing the possibility of accepting PhD student internships from our university. Many Drs. including described above had a big interest this program supported by MEXT and asked questions. Especially Dr. Mushtaq Memon, who was an associate professor working in improving and expanding the veterinary curriculum, gave us a lot of valuable comments.

1. To give students Expert Title, how do you “educate” them (not only let them do research) in highly specialized and challenging field: Chemical hazard control and zoonosis control? Are the faculty capable of raising experts, and how can outsiders see that graduates really are experts?
2. About the curriculum of “Fundamental Veterinary Science”, what are focused on? DVM students need to take a fundamental lecture? If it is an advanced lecture, is it possible for non-DVM students to follow?
3. To give students 2 credits in internship, how long periods and contents are required?
4. Internship is professional training, different from contact research and visitation. What are the students going to do there? Goals need to be clearly defined.
5. A one-time relationship should be avoided. A continual cooperation is required to benefit both sides. What about after 5 years passed?



Meeting with Dr. Memon

【The Marine Mammal Center and seacoast in California】

In our free time, we 4 students visited The Marine Mammal Center in California. The center is a nonprofit veterinary research hospital and educational center for the rescue and rehabilitation of ill and injured marine mammals, and has been involved many research ocean health. At the time we visited, 4 harbor seals and 8 sea lions were being cared. Unfortunately we couldn't see them and treatment program directly, but observed the well equipped facility and learn some of their research. Also we stopped in a small harbor. We fortunately could see some wildlife such as brown pelicans and a harbor seal. It was the first time for me to see wild pelican and luckily I could observe him diving to feed. Wildlife lives very close to human activity as same as Hokkaido. What an amazing environment. These experiences strongly reminded me importance of ecohealth and feeling for contribution to issue resolution.



The
Marine
Mammal Center



Brown Pelican
&
Harbor seal