


Student Free Design Activities (One Health Collaborative Training)

報告書 Report

報告者 [Reporter]

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活動報告 [Activity Report]

※活動内容が判る様な写真や図表を加えて下さい。 / Provide photos, tables and figures that clearly show the activities during the period.

タイトル [Course Title]	Ally course, Module 4, Student Free Design Activities
実施期間 [Periods]	June 20-25
共同実施者 [Other participants]	Teoh Yong Bin, Mei Sugawara-Suda
言語 [Language]	English
実施場所 [Location]	Colorado State University (Fort Collins), ACVIM forum (Austin, Texas)

申請時計画の実施報告 [Report how you carried out your plan in the application form]

The application was conducted at Translational Medicine Institute (TMI) and Veterinary Teaching Hospital at Colorado State University and by attending the American College of Veterinary Internal Medicine Forum (ACVIM, 2022). The following is the schedule that we carried out.

2022 June 20 – Visit to the Translational Medicine Institute (TMI) at Colorado State University

2022 June 21 – Visit to the Veterinary Teaching Hospital at Colorado State University

2022 June 22 – Move to Austin, Texas from Colorado

2022 June 23 – Attending the American College of Veterinary Internal Medicine Forum (ACVIM, 2022)

2022 June 24 – Attending the American College of Veterinary Internal Medicine Forum (ACVIM, 2022)

2022 June 25 – Attending the American College of Veterinary Internal Medicine Forum (ACVIM, 2022)

The schedule that was initially planned was followed, and the expected goals were achieved.

The activities were divided in to two categories.

1. Tour to Colorado State University TMI and Veterinary Teaching Hospital

We visited to the veterinary teaching hospital and the translational medicine institute at Colorado State University. On the day tour to the veterinary teaching hospital, we had the opportunity to learn about the hospital's infrastructure, budget operations, small animal clinical trial research, clinical practice to the veterinary students, and how they do extension to the pet owners for the longest, healthiest and happiest of their animals and to collaborate in one health research works. The great opportunity was that Dr. Fukushima, a Japanese resident, took us through each department's daily clinical routines, explaining how each department carried out its task (e.g., small animal medicine unit, cardiology unit, neurology unit, cancer therapy, emergency unit, imaging unit, etc.). However, we did not have chance to join the clinical practice because of very limited time.

On our second day at CSU, we visited the TMI unit as well as the JOHNSON family Equine hospital for additional sightseeing. We had the opportunity to see a horse's lameness being examined step by step at the equine hospital, where we also learned how imaging techniques for horses were updated and used. We also had the chance to meet the PhD students who have been enrolled in the TMI unit, and through this interaction, we learned about their research, shared our own research information, and discussed the strategies for integrating animal and human care.



Fig 1: CSU-VTH (left) and observing room for small animal physical examination practice (right)



Fig 2: TMI (left) and examination of Equine lameness at JOHNSON Equine hospital (right)

1. Attending the ACVIM forum 2022

Following that we participated in ACVIM forum to gain the hands-on experience with interactive demos and live presentations, as well as to connect and collaborate socially with experts from many veterinary fields in both scientific and clinical research discussions.

In attending conference, I divided to four categories and attended in.

1. Scientific section which supports to my PhD study and future carriers
2. Clinical section which is helpful in clinical practice
3. One-health section which is useful for collaborating animal and human research
4. Knowledge corners in Veterinary Medicine and technical Supports for Small Animal Practice



Fig 3: Scientific section, e-poster presentation (left) and clinical section, consensus statement on Differentiation of Gastrointestinal Lymphoma from Inflammatory Bowel Disease in Cats (right)

目的達成状況報告 [Report how you achieved your goal/objectives listed in the application form]

The objectives to develop novel research methodologies and explore the clinical information relevant to One Health were accomplished. I was able to learn animals and human clinical trials, as well as how translational medicine may advance to the idea of one world- one health-one medicine. I also get an open door to the training program, residency in America as future carrier. Additionally, I got the opportunities to learn about the clinical knowledge and practices from different professionals in many veterinary fields.

One Health Approach実践報告 [Report how your activity could link to One Health Approach]

I had the opportunity to see how CSU-VTH and TMI operate and talk about one health concept and translational medicine. Additionally, we looked forward to the ACVIM meeting so that we could share thoughts and opinions for upcoming work to advance in One Health and zoonosis from the perspective of the small animal clinician. At the Hokkaido University, one health research center progressively promotes the Onco-biquity project and diverse collaborating works with global universities and private companies. The project creates an integral database and collect the biological samples from neoplastic diseases of animals. Using that database and samples, the goal is going to develop new diagnostic methods, prevention and

therapeutic strategies. By imaging of how TMI and CSU-VTH work together and functions as an example, I had a bit focus on small animal cancer research, such as lymphoma, myeloma, and other neoplastic diseases to improve the health of small animals and then bridge to better human health, we are indeed able to participate in such Onco-biquity project as students conducting both clinical practice and research as well as active members of the clinical team at HUVTH.

備考 [Remarks]

- ※ 報告書を作成後、担当教員に確認をお願いし署名をもらってください。PDFファイルとしてVetLog上の提出書類「Student Free Design Activities報告書」としてアップロードして下さい。
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