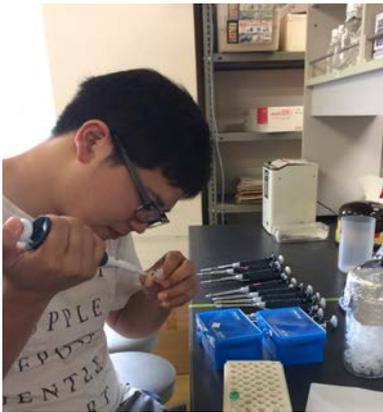


Research Activity Report
Supported by “Leading Graduate Program in Primatology and Wildlife Science”
(Please be sure to submit this report after the trip that supported by PWS.)

2017. 5. 31	
Affiliation/Position	Primate Research Institute / M1
Name	Wanyi Lee

1. Country/location of visit
Kyoto University main campus, Japan
2. Research project
Altitudinal Variation of Fern Community in Yakushima Island
3. Date (departing from/returning to Japan)
22-26 and 30 May, 2017
4. Main host researcher and affiliation
Prof. Fuse, Prof. Kudoh and Prof. Shinohara
5. Progress and results of your research/activity (You can attach extra pages if needed)
Please insert one or more pictures (to be publicly released). Below each picture, please provide a
<p>During Genome course, my teammates and I analyze the gametophyte samples we collected in Yakushima field course. We want to identify the gametophyte species in three different altitude, and compare this result with sporophyte.</p> <p>During first three days, we extracted DNA and sequence <i>rbcL</i> gene region (from chloroplast) from the samples. We planned to 96 plant materials but the original plan could not cover enough samples from all three altitudes. We therefore changed plan to extract 143 samples and used less primers to save time. At the end, we successfully extracted 61 gametophyte samples, which was of about 37% success rate.</p> <p>For the remaining two days, 25-26 May, we performed data analysis and prepared for poster presentation. During these two days, we had many serious discussions regarding how we should present our data. Eventually, we were able to reach agreement on the topic. On 30 May, we helped to set up for the International Seminar on Biodiversity and Evolution. After that, we present our results in form of poster presentation.</p> <p>The whole course, to me, was kind of new to me. I did some works about DNA analysis before and I think the whole process of DNA extraction is similar. However, I never study on plants before. My lack of knowledge in botany also made it challenging for me to discuss the result. Anyways, I tried my best to understand the journal papers. From this experience, I believe that if there will be next time, I will have more confidence in doing molecular analysis in ferns.</p>

Group photo with posters

DNA extraction experiment

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6. Others

Thank PWS for all the support in both Yakushima field course and genome course. Also, thank Prof. Fuse, Prof. Kudoh Prof. Shinohara and staffs from Laboratory of Plant Systematics and Evolutionary Botany who assisted us in molecular analysis.