Research Activity Report
Supported by “JSPS Core-to-Core Program(International Core of Excellence for Tropical Biodiversity Conservation focusing on Large Animal Studies)” “Leading Graduate Program in Primatology and Wildlife Science”
(Please be sure to submit this report after the trip that supported by CETbio,PWS.)

	2018. 06, 08
Affiliation/Position	National Institute of Amazon Research/ PhD student
Name	Thiago Alexandre Petersen

1. Country/location of visit

Kyoto, Japan

2. Research project

Yakushima Genome Science Course - Plant Team

Species Diversity of Ferns and Bryophytes in Yakushima, Japan

3. Date (departing from/returning to Japan)

2018. 05. 28 – 2018. 06. 01 (5 days)

4. Main host researcher and affiliation

Dr. Koji Takayama, Graduate School of Science, Department of Botany, Kyoto University.

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 brief description.

During the labwork, were conducted analysis on the gametophytes and bryophytes samples. The objective of the plant team in this genomic course was to identify the species of ferns from the collected gametophytes using DNA barcoding technique. The activity schedule is as follows:

2017.5.28 Laboratory work (tissue-direct PCR)
2017.5.29 Laboratory work (tissue-direct PCR and purification)
2017.5.30 Laboratory work (Cycle sequencing and sequencer run)
2017.5.31 Data analysis and poster preparation
2017.6.01 Data analysis and poster preparation preparation

Unfortunately, an error in the capillary sequencer machine occurred (a part of capillary array was twisted and broken) and the students obtained only 7 good sequences (only ferns). The remaining sequences must be obtained when the capillary sequencer machine is fixed.
Through this experience, I have developed a clear vision on how to cope with DNA analysis, which will be of great help in the future conservation of ferns. I am currently working on a paper based on these results for publication in an academic journal.

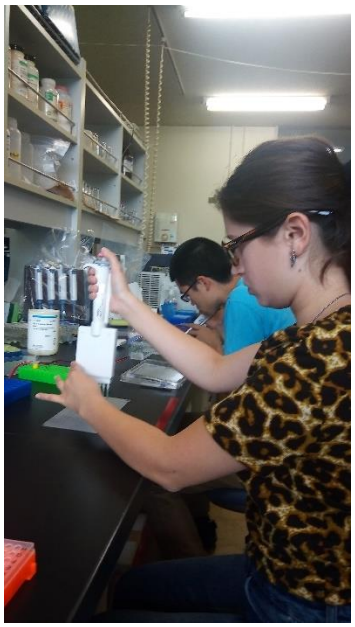

Fig. 1: Students working in the laboratory.

6. Others

Thanks for prof. Koji Takayama for assisting me in the laboratory and other students for assisting me in this course. Finally, I am grateful to PWS for funding this course