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.)

	2015. 07. 30
Affiliation/Position	Primate Research Institute /M1
Name	Makiko Take

1. Country/location of visit

Graduate School of Science, North Campus, Kyoto University

2. Research project

Genome Science Course

3. Date (departing from/returning to Japan)

2015. 06. 01 - 2015. 06. 09 (9 days)

4. Main host researcher and affiliation

Dr. Eiji Inoue (Assistant Professor, Graduate School of Science, 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.

The aims of this course were to learn the methodology which combines fieldwork and laboratory work and to understand its advantages, using samples we had obtained during Yakushima Field Science Course which had been held in a week before this Genome Course.

I was among Monkey team and worked with 5 other students including a student from Malaysia. We used DNA from fecal samples of Yakushima monkeys for sex identification and individual identification (Genotyping).

We succeeded to determine the sex of 47 samples among 48 samples. Also, we identified 20 different individuals from 38 fecal samples.

On the last day (June 9th), we presented our results from both Yakushima Science Course and Genome Science Course at the poster session in the 4th International Seminar on Biodiversity and Evolution. We added new information that we obtained from genome analysis to the data from fieldwork, so we could discuss more on which we would not have known without laboratory work.

Thorough whole the activity of Yakushima and Genome course, I understood the importance of combination of fieldwork and laboratory work. I also learned there were several kinds of DNA analysis (e.g. sex identification, genotyping, etc), and they differ one another in the aspects of cost, length of time, accuracy and so on. So I realized that it was very important to select the most appropriate one when we adopt DNA analysis in our research plan.

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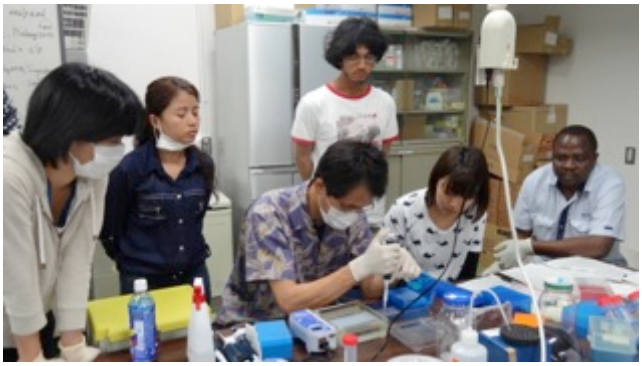
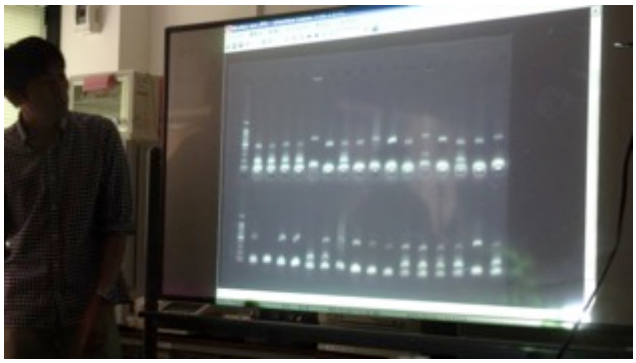
Photos



(Left: The experiment using Pipetman / Right: A result of sex identification)



(Left: Members of monkey team making a poster /Right: Hard work until midnight)



(Left: Correcting an error after printed out / Right: Finally we completed the poster)

6. Others

I would like to express my gratitude to PWS and Prof. Matsuzawa for supporting this course. I would also like to thank Dr. Inoue and the teaching assistant staffs (Tajima-san and Yokoyama-san) for helping us all the time during this course.

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