

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.)

	2016. 06, 12
Affiliation/Position	Amazonian National Institute of Research - INPA
Name	Gisele de Castro Maciel Valdevino

1. Country/location of visit
Wildlife Research Center, Kyoto University
2. Research project
Genome Science Course
3. Date (departing from/returning to Japan)
30. 5. 2016 - 3. 6. 2016 (7 days)
4. Main host researcher and affiliation
Prof. Miho Inoue-Murayama, Wildlife Research Center, 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.
<p>During the Yakushima Field Course I was assigned under monkey team but in Genome Science Course members of monkey, fig and deer analyzed fecal samples of deer team together. The main objectives of this course were:</p> <ul style="list-style-type: none"> - To identify the sex of the individual sika deer using the DNA analysis of the fecal samples collected during Yakushima Field Science Course by the deer group; - To identify the mitochondrial haplotype from the same samples; - Calculate the successful rate of sequencing. <p>We extracted DNA from the fecal samples of sika deer. using the QIAamp Stool Kit, QIAGEN. It included the process of extracting (centrifugation, absorption of unwanted particles by the absorbing tablet, degradation of cells, ethanol precipitation, filter trapping of DNA, etc.) and purifying the DNA and did the PCR amplification and agarose gel preparation.</p> <p>We viewed our PCR product under gel electrophoresis, however no band was detected. Thus, we did another trial and repeat the procedure using other fecal samples. After we obtained the band, the product was selected for sequencing. On our last day of genome course, we analyzed the data using MEGA 7 and FinchTV software for haplotype identification. The results from this Yakushima field work and genome course were combined and will be presented at International Seminar on Biodiversity and Evolution on 7th June 2016.</p> <p>In this course I had a chance to learn how to use non-invasive techniques to study wild animals without disturb then and all the genetic tools was very impressive for me and my personal study area, but I could appreciate the good help from professor Murayama and her staffs and others students.</p>

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.)

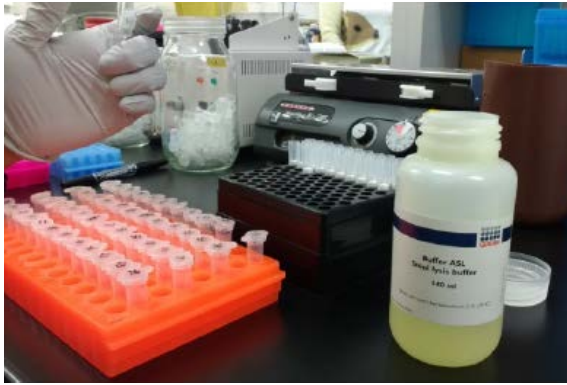


Figure 1. Preparing the samples for DNA extraction and

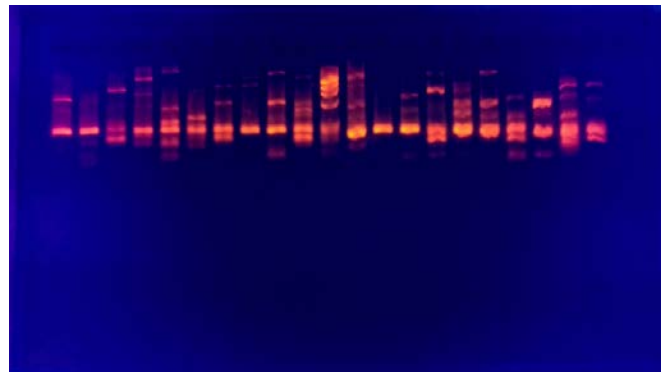


Figure 2. Bands observed under the UV Trans illuminator



Figure 3. Group photo of Genome Science Course - deer group 2016

6. Others

I would like to thank PWS leading program and professor Murayama, her staffs and other participants of this course.

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.)