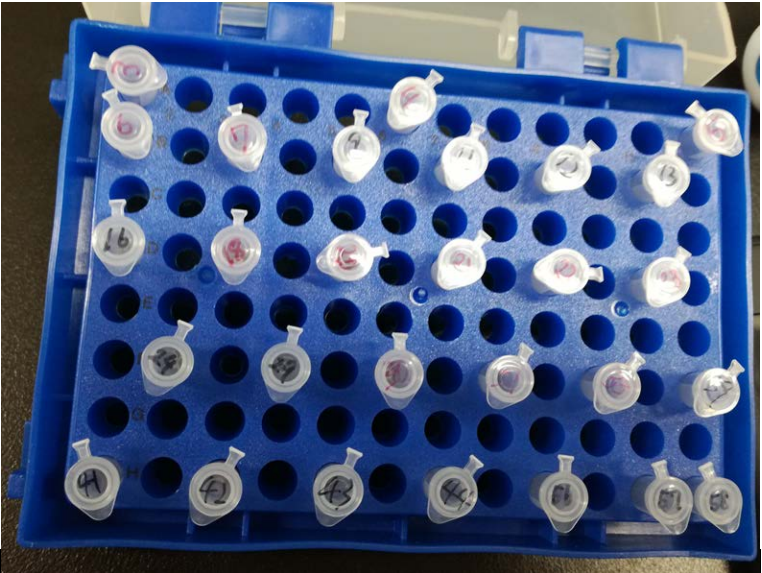


Research Activity Report
Supported by “Leading Graduate Program in Primatology and Wildlife Science”
 (Please be sure to submit this report after the trip that supported by PWS.)

2018. 07, 02	
Affiliation/Position	Wildlife Research Center/M1
Name	Yuto Taki

1. Country/location of visit
Japan, Kyoto
2. Research project
Study on the mitochondrial DNA of the Yakushima macaque (as Genome Science Course)
3. Date (departing from/returning to Japan)
2018. 05. 28 – 2018. 06. 01 (5 days)
4. Main host researcher and affiliation
Dr. Kishida, Program-Specific Assistant Professor at 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 genome science course, we conducted research on the mitochondrial DNA haplotypes of the Yakushima macaque. The purpose of this research was to investigate the movement and distribution of the Yakushima macaque. At first, we extracted DNA from the feces samples of the Yakushima macaque, which we collected in Yakushima Field Science Course. Next, we conducted PCR on the control region of the mitochondrial DNA. Finally, we sequenced them, identified their haplotypes, and plotted them in the map of Yakushima island. We investigated the geographic distribution of haplotypes and compared the results of our study with the previous study in 2006.</p> <p>As a result, one haplotype has been widely distributed on the island. The other haplotypes have been observed only in restricted areas, and some of them slightly spread, compared to the previous research. It could be said that migration of the Yakushima macaque has happened because of the slight changes of the altitudinal zones and vegetation on the island.</p> <p>I used this opportunity to improve my laboratory skills about DNA. Through this experience, I have learned basic skills for making DNA analyses from feces samples, which will be necessary for my study on genetic diversity analyses of the Ryukyu flying fox.</p>

Figure.1 DNA samples in microtubes

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6. Others