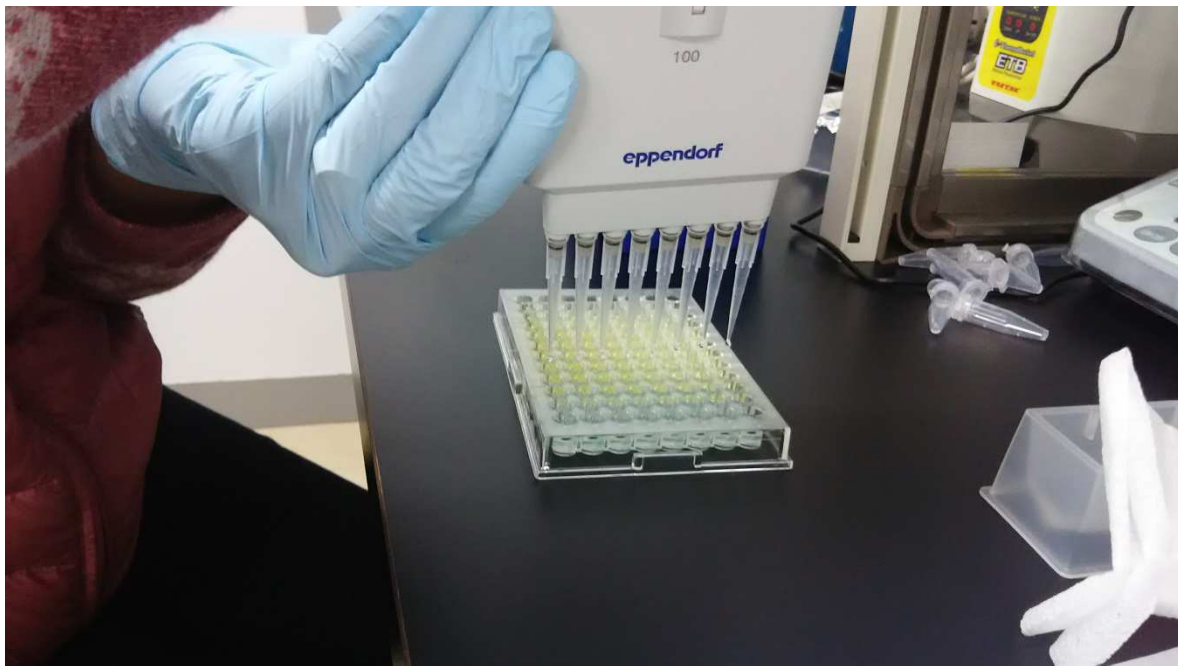


Research Activity Report
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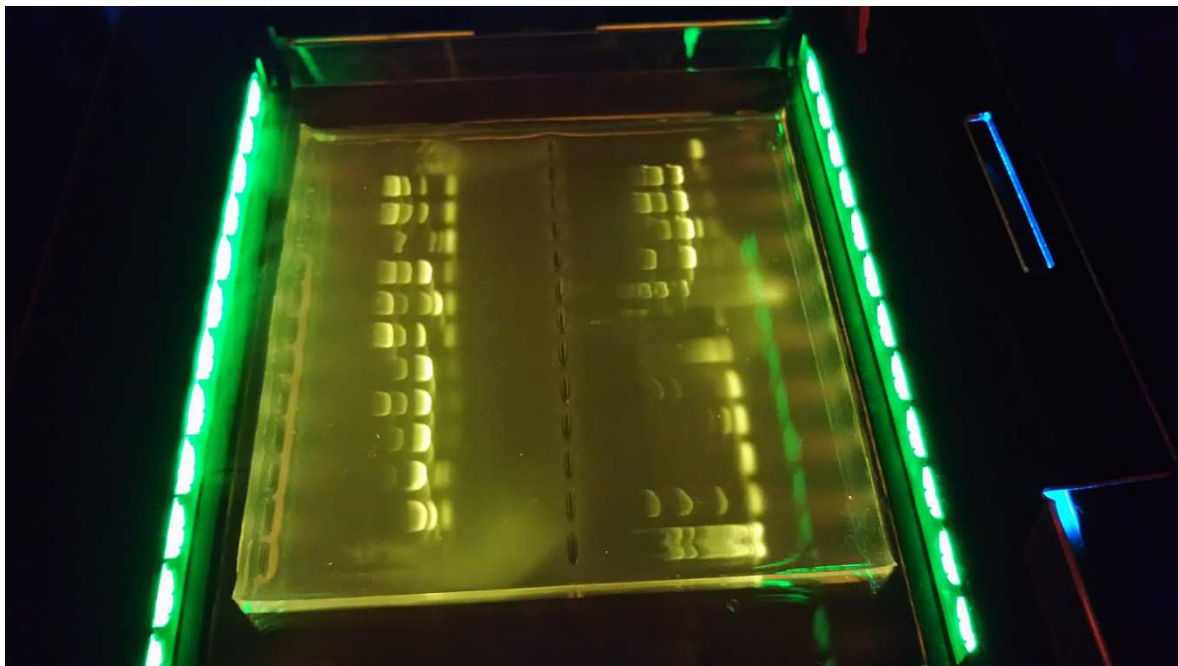
Affiliation/Position	Primate Research Institute/M1
Name	Yuri KAWAGUCHI

1. Country/location of visit
PRI, Japan
2. Research project
Comparative Cognition Course
3. Date (departing from/returning to Japan)
2016Apr.1- Sep.16
4. Main host researcher and affiliation
Language and Intelligence Course
5. Progress and results of your research/activity (You can attach extra pages if needed)
<p>I participated Genome course following after Field science course (Yakushima course). On the first half of the days we extracted DNA from fecal sample and investigated the sex of hosts. After that, we analyzed steroid hormone and integrated the data and made an oral presentation.</p> <p>I want to briefly explain the methods and results. From the data which we analyzed in Yakushima we can say that the number of parasites were larger in male than female in our study period. We test the sex of hosts by amplification of sex-specific gene and non-specific gene. However, these results were incongruent with the data of observation so we did not use these. We analyzes hormone by enzyme immunoassay through electrophoresis. Enzyme immunoassay is a technique which measure concentration of target substance by calculating from the absorbance. Our results revealed that male hosts had higher testosterone than female. However, there was no sex difference of concentration of cortisol. There was no correlation between the number of parasites and these two hormones. We made a presentation, which title was” Testing the trade-off between parasite resistance and the immunosuppressive hormones cortisol and testosterone”. Many people came to our presentation. We got many important suggestions after presentation.</p> <p>I found myself have little knowledge about this theme. I am sorry for other members that I could not contribute so much. In Yakushima course, we separated into lab team and presentation team at the last day and we could not share the results and discussion very well but this time we did. That made better presentation I think. However, the data of hormone analysis came out at the noon of day before presentation, so the schedule was very tight. We left PRI almost 0o'clock on the day before presentation. Thought this course was challenging but very useful for me.</p>

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Enzyme immunoassay



Gel electrophoresis of PCR

6.Others

I would like to thank Dr. Kishida, Dr. Kinoshita and Dr. Hayakawa. I also appreciate PWS program..