

(Please be sure to submit this report after the trip that supported by CETbio,PWS.)

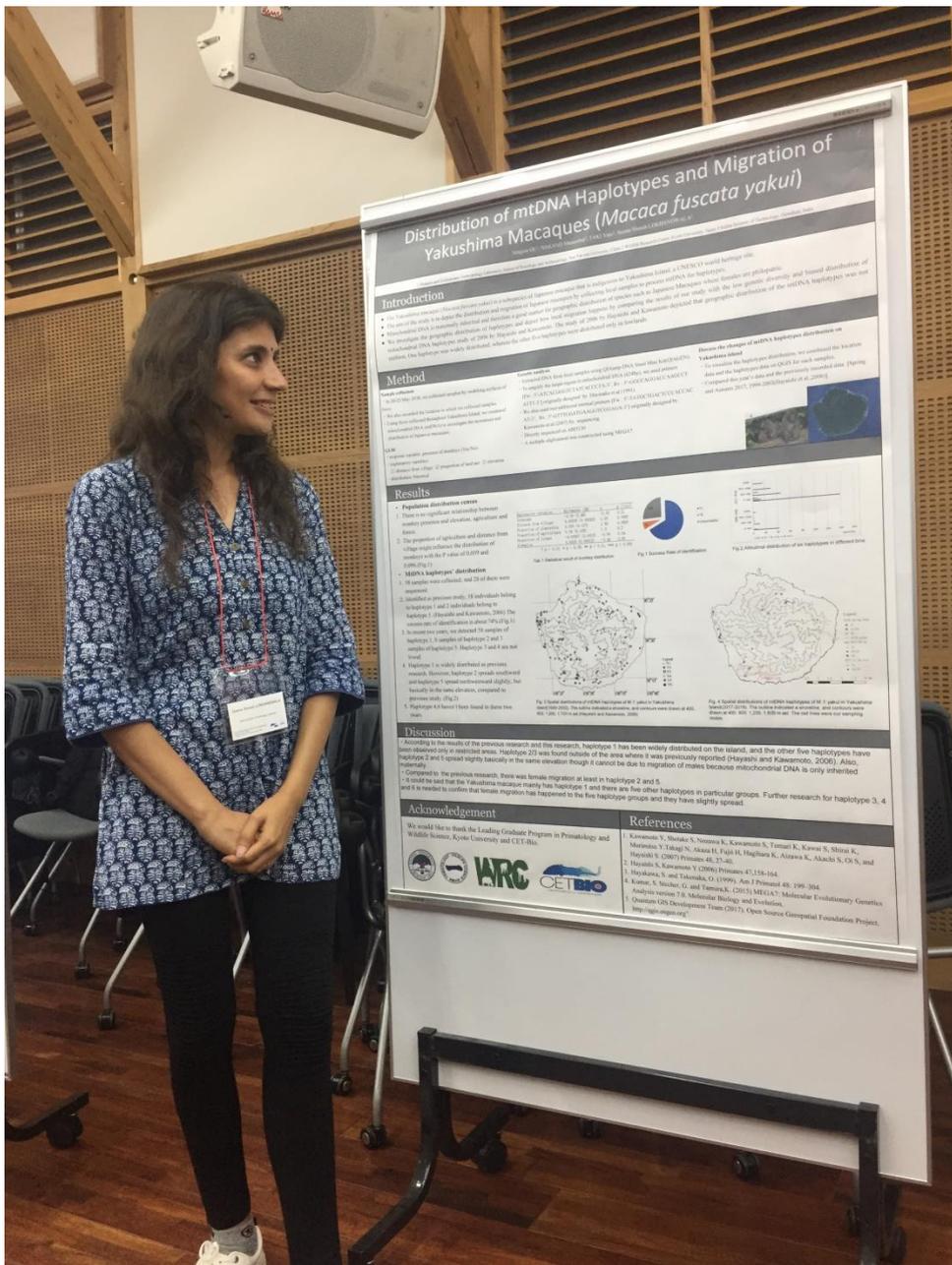
2018. 08, 06

Affiliation/Position	Indian Institute of Technology, India / Research Scholar
Name	Seema Sheesh Lokhandwala

1. Country/location of visit
Kyoto, Japan
2. Research project
Study on geographic distribution of mtDNA haplotypes in Yakushima Macaques (<i>Macaca fuscata yakui</i>)
3. Date (departing from/returning to Japan)
Arrive in Japan: 14/05/2018 – Depart from Japan: 15/06/2018
4. Main host researcher and affiliation
Dr. Takushi Kishida, Professor at Wildlife Research Centre, 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 this visit, I conducted a week-long lab course on in Kyoto to analyze the genetic material collected from Yakushima macaque fecal samples during the field course.</p> <p>I used this opportunity to learn how to store, extract and analyze fecal genetic samples. Being an engineer, I had no experience of analyzing mitochondrial DNA previous to this course and so it was a great opportunity for me to learn how to handle genomic data. The first four days I did DNA extraction, PCR amplification and ethanol precipitation. The last day I did DNA sequencing and learnt how to identify haplotypes.</p> <p>Through this experience, I have developed a clear vision on how to extract fecal DNA without contaminating the samples and what is required for successful sequencing of fecal DNA. I now know how to carry out the analysis from sample to genomic data and the sorts of information I can get from fecal genetic samples. I learnt how to edit DNS sequences, view and arrange them using the software MEGA 7. I have also gained experience of presenting the genetic data geographically using QGIS.</p> <p>Fecal genetic sampling is a technique allowing us to study the population genetics of endangered animals in non-invasive ways reducing the disturbance to the species. The laboratory skills I have gained to perform these analyses will be extremely useful for studying species conservation in the future. I am now interested in sequencing elephant DNA and identifying FOX P2 gene in elephant.</p>

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”

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Presentation of the results from the primate field and genome courses at the 8th International Seminar.

6. Others