

**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.)

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|-----------------------------|-------------------------------------|
|                             | 2014. MM, DD                        |
| <b>Affiliation/Position</b> | Wildlife Research Center/D1         |
| <b>Name</b>                 | Louzamira Feitosa Biváqua de Araújo |

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| <b>1. Country/location of visit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Japan, Yakushima                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>2. Research project</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Study on ○○ (Experiments with △△, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>3. Date (departing from/returning to Japan)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2014. 05. 18 – 2014. 05. 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>4. Main host researcher and affiliation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Dr. Wataru Shinohara, Kagawa University                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>5. Progress and results of your research/activity</b> (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>In Yakushima, we did the first part of the genome training course. There did fieldwork to collect for analysis in biological genetics course at Kyoto University (second part of the training) materials.</p> <p>Our research project was titled "Species composition of fern gametophytes in 3 locations in Yakushima" the leader of my group was Professor Wataru Shinohara.</p> <p>Our field activities consisted primarily of collecting different developmental stages of ferns to check the diversity of species on the island.</p> <p>We collected gametophytes and sporophytes along three different rivers (Figure 01 and 02). On the first day we visited the Onna river, on the second day we went to Myianoura river and the third day we visited the Hanaage river. In total we collected 225 gametophytes and 149 sporophytes.</p> <p>After collection of the data we did the sorting of samples using a microscope, so we put some of the material in silica gel for genetic analysis and partly pulled into ethanol for conservation of genetic material.</p> <p>Yakushima is a very beautiful place, with rocky rivers of transparent waters and many waterfalls. This island also has a preserved forest surrounded by white sand beaches and blue sea. During my stay in this island, I also had the opportunity to experience a little of Japanese culture, I used the tatame to sleep and was able to experience a wide variety of foods of Japanese cuisine. Yakushima is a great area to conduct research projects. This place has biological richness, access and logistics for field activities are very easy and convenient.</p> |

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**6. Others**



Figure 01: Professor Shinohara collecting gametophytes.



Figure 02: Plant group collecting gametophyte and sporophyte at the Onna river.