



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. 6, 4

Affiliation/Position	Wildlife Research Center/M1	
Name	Anna KAWAKITA	
1. Country/location of visit		
Yakushima Island, Kagoshima Prefecture		
2. Research project		
Yakushima Field Science Course		
3. Date (departing from/returning to Japan)		
2016. 5. 21 – 2016. 5. 27 (7days)		
4. Main host researcher and affiliation		
Yakushima Field Station		
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>Schedule</p> <p>May 21 Move to Yakushima</p> <p>May 22-25 Fieldwork in Yakushima</p> <p>May 26 Data analysis, presentation</p> <p>May 27 Leave Yakushima</p>		
	<i>F. pumila.</i>	We dissected syconia (Stage 1-4).
<p>There are 16 native fig (<i>Ficus</i>) species in Japan and 7 species in Yakushima Island. The interaction between fig and fig-pollination wasps is considered as mutualism. In order to observe the relationship and to investigate the coevolution, which is the aim of genome science course, we collected 485 syconia samples of 5 fig species (<i>F. pumila</i>, <i>F. sarmentosa</i>, <i>F. erecta</i>, <i>F. microcarpa</i>, and <i>F. superba</i>) at Yoshida, Isso, and Nagata. The color, diameter, and hardness of syconia were recorded. After the inside observation by microscopes, syconia were classified into 4 stages: Stage 1. Only female flowers developed/ Stage 2. Female flowers present, while male flowers undeveloped, and wasp larvae were found/ Stage 3. Male flowers developed, adult wasps were seen/ Stage 4. Fully matured syconia, no fig wasp remains. From dissected syconia 169 samples of fig-pollination wasps, parasite wasps (non-pollination wasps), weevils (<i>Curculio</i> (<i>Curculio</i>) <i>funnebris</i>), nematode, and maggot were collected. They were preserved in ethanol solution. Fresh leaves were also collected and dried by silica gel for DNA analyses.</p>		
6. Others		
I really appreciate a PWS support, Yumoto-sensei, Okamoto-sensei.		