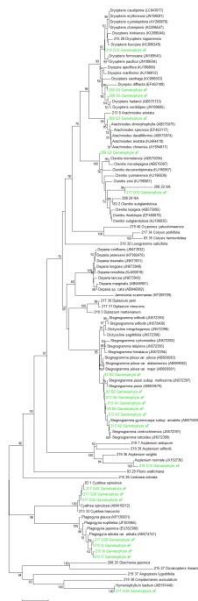


Research Activity Report
Supported by “Leading Graduate Program in Primatology and Wildlife Science”
 (Please be sure to submit this report after the trip that supported by PWS.)

	2015. Nov, 1
Affiliation/Position	Set marine biological laboratory /M1
Name	Akihiro Yoshikawa

1. Country/location of visit
Japan Kyoto
2. Research project
Species composition and phenology in fern gametophytes
3. Date (departing from/returning to Japan)
2015. Oct. 26 – 2015. Oct. 30 (5days)
4. Main host researcher and affiliation
S. Fuse, H. Sato and W. Shinohara
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><u>Genome science course</u></p> <p>Oct. 26-Mon DNA extract (sporophytes and gametophytes), PCR</p> <p>27-Tue DNA purification (sporophytes), PCR</p> <p>28-Wed DNA purification (gametophytes)</p> <p>29-Thu Date analysis and discussion</p> <p>30-Fri Date analysis and discussion</p> <p>Abstract</p> <p>The purpose of genome course was to identify fern gametophytes corrected in Yacushima. And compering the species distribution pattern of sporophytes and gametophytes. At first, the samples which corrected in each site were saved as voucher specimen and the specimen for DNA analysis. The fragments for DNA analysis were picked up from the specimen for DNA analysis. And we extract the DNA. The second, we took PCR-reaction of our purpose region of DNA, rbcL gene. Sporophytes DNA were also extracted and took PCR-reaction by same manners. After PCR-reaction, the DNA region was determined by cycle sequencing and used for phylogenetic analysis for compering the species distribution pattern of sporophytes and gametophytes.</p> <p>The sequences which contain 22 individuals of sporophytes and 22 individuals of gametophytes were determined and analyzed. We are having presentation about the result which discussed about both of Yakushima and genome course in 5th November.</p>

Fig. Phylogenetic tree of fern
Fig. Phylogenetic tree of fern
6. Others

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