



Asst. Prof.
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Study on taxonomic reevaluation and conservation of wild plants

Previous plant taxonomic systems based on morphology had often disagreed with the molecular phylogenetic trees. I have advanced taxonomical reevaluation based on morphology and molecular phylogeny on family Asparagaceae, Tofieldiaceae, Dioscoreaceae, Cyperaceae, etc.

For conserving local populations of endangered plant species, I am investigating their fluctuation, and studying on hybridization and genetic disturbance of the species. For ex-situ conservation, frozen seeds from the local populations of endangered plants have been preserved. For example, I have surveyed a lot of wild populations of *Rumex nepalensis* subsp. *andreaeanus* in Okayama and adjacent area, and found new hybrids of the subspecies.



Genetic resources of wild plants



About 17,000 frozen seed accessions of 3,500 wild plant species from wild populations are available for scientific studies. Those are not guaranteed for survival rate. Exchanging MTA is needed before using the seeds. An herbarium is also available for studies on weekdays. About 80,000 specimens of 6,000 wild plant species from Japan and other countries have been preserved under APG system. They include various weeds from the world, naturalized plants in Japan, endangered species, plants of Ryukyu, and so on. About 30,000 dried seed specimens are also available. Please contact me (junyama@okayama-u.ac.jp) to access the genetic resources and herbarium.