

Fellowship ID : BR200406

独立行政法人日本学術振興会理事長 殿

To: President, Japan Society for the Promotion of Science

研究活動報告書

Research Report

1. 受入研究者/ Host researcher

受入研究機関・部局・職 筑波大学・生命環境系・准教授
Name of Host Institution, Department and Title University of Tsukuba, Life and Environmental Science, Associate Professor

受入研究者氏名 庄子 晶子
Host Researcher's Name Akiko Shoji

2. 外国人再招へい研究者/ Fellow

所属研究機関・部局・職 University of Ottawa, Department of Biology,
Name of Institution, Department and Title Associate Professor

外国人再招へい研究者氏名 STEPHANE ARIS-BROSOU
Fellow's Name

3. 採用期間/ Fellowship Period

2022年 07 月 30 日 ~ 2022年 08 月 22 日

4. 研究課題/ Research Theme

Seabird ecology

5. 研究活動報告/ Research Report

(1) 研究活動の概要/ Summary of Research Results

The BRIDGE fellowship was started on July 30, 2022 for a period of 24 days. After a 3-day quarantine, I was introduced to the lab member of my host, who had prepared presentations about their undergraduate and graduate work. The next day I was invited to give a seminar at The Ecological Society of Japan and the Evolutionary Biology series, titled "The ecological and evolutionary microbial dynamics of a High Arctic lake, Lake Hazen, NU Canada," followed by a rich discussion with graduate students and faculty members.

Work on our joint projects started soon after, with fieldwork on Toshima Island, where I was shown how to catch shearwaters, sampling blood and feathers to trace mercury contaminants. This work provided me with better insights about the data that we started analyzing when back at Tsukuba four days later. For this, we focus on a different species of seabirds, Leach's storm petrels, which were monitored at Daikoku Island in 2021 during their breeding season with biologgers. These recorded their foraging trips, as the feeding areas of this declining seabird are poorly know, and hence limits current conservation efforts. Preliminary results show that these

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birds have wider foraging grounds than previously believed, and show high route fidelity, meaning that each individual tends to forage in the same area, which is distinct and non-overlapping with those forage by other individuals. Our results suggest that wider conservation areas should be put into place.

(2) 研究キーワード/ Keywords

Leach's storm petrel, Daikoku Island, Important Bird Area, conservation biology

(3) 主な研究発表 (雑誌論文、学会、集会、知的財産権等/ Main Research Publications

A manuscript is currently in preparation for submission to a peer-reviewed journal.

(4) その他/ Remarks

This fellowship provided me with a unique opportunity, in particular with respect to fieldwork (which, as a computational biologist, I have little experience with), where I could meet researchers at Tsukuba and discuss their work. With my host, we also have started discussions on new projects, which we will be working on at our respective institutions. We are also exploring ways to fund new visits, either to Japan, or exchanging graduate students through MITACS' Globalink program.

受入研究機関事務担当者記入/ Filled in by Host Institution

部署・氏名		電話番号	
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※ 部局名等の名称含め、内容に誤りが無いか必ずご確認ください。

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