

日本－アフリカ 国際共同研究「環境科学」 2021 年度 年次報告書	
研究課題名（和文）	西アフリカにおける食と生計のレジリエンス向上のための未利用植物種に関する研究
研究課題名（英文）	Food and Livelihood Resilience from Neglected and Underutilized Plant Species in Western Africa
日本側研究代表者氏名	ガスパトス・アレクサンドロス
所属・役職	東京大学 未来ビジョン研究センター・准教授
研究期間	2021 年 4 月 1 日～ 2024 年 3 月 31 日

## 1. 日本側の研究実施体制

氏名	所属機関・部局・役職	役割
ガスパトス・アレクサンドロス Alexandros Gasparatos	東京大学・未来ビジョン研究センター・准教授	Lead Task 1.2, 3.1, 3.2 and 5.1 Contribute to Task 1.3, 2.2, and 4.1
飯山 みゆき Miyuki Iiyama	国際農林水産業研究センター・情報セグメント・プログラムディレクター	Contribute to Task 1.2, 1.3, 2.2, 3.1, 3.2, 4.1 and 5.1
ヤゼムブスキ・マルチンパベル Marcin Jarzebski	東京大学・東京カレッジ・助教	Contribute to Task 1.2, 1.3, 3.1, 3.2, 4.1, and 5.1
工藤 尚悟 Shogo Kudo	国際教養大学・国際教養学部・准教授	Contribute to Task 1.2, 1.3 and 5.1

## 2. 日本側研究チームの研究目標及び計画概要

Key responsibilities for FY2021 for the Japanese team were to:

- Undertake the systematic review or meta-analysis to understand the socioeconomic impacts of neglected and underutilized plant species (NUS) in Sub-Saharan Africa in order to inform the development of **WP (Work Package) 3** (related to **Task 1.2**, Lead University of Tokyo)
- Contribute insights and information collected through **Task 1.2** to inform the development of the conceptual framework that illustrates how NUS can enhance resilience to socioeconomic and environmental change (related to **Task 1.3**, Lead University of Pretoria)
- Contribute insights and information collected through **Task 1.2** to inform the collection and consolidation of local knowledge and practices related to the uses, ecology, and agronomy of selected NUS in the specific study sites (related to **Task 2.2**, Lead University Joseph Ki-Zerbo)
- Undertake the development of the study protocol to collect primary quantitative and qualitative data regarding the adoption and impact of NUS, and oversee data collection in one of the two study countries (related to **Task 3.1-3.2**, Lead University of Tokyo)
- Contribute insights from **Task 1.2** and **3.1-3.2** for mapping the value chain of the study NUS, and analyse potential market options (related to **Task 4.1**, Lead University of Pretoria)
- Lead the development of a dissemination strategy in order to maximize the impact of the project findings and deliverables (related to **Task 5.1**, Lead University of Tokyo)

## 3. 日本側研究チームの実施概要

Key progress for FY2021 for the Japanese team were to:

- Develop the protocol and start the systematic review to understand the socioeconomic impacts of neglected and underutilized plant species (NUS) in Sub-Saharan Africa. The systematic review approach was selected as the appropriate method, as the base scientific literature uses different analytical tools and indicators, which makes the comparison of their results impossible though a meta-analysis (related to **Task 1.2**, Lead University of Tokyo)
- Contribute insights and information collected through the early stages of the systematic review to inform the development of a conceptual framework that illustrates how NUS can enhance resilience to socioeconomic and environmental change. Particular progress was made in the conceptualization of the insurance value of biodiversity in NUS systems (related to **Task 1.3**, Lead University of Pretoria)

Develop a study protocol to collect primary quantitative and qualitative data on the adoption and impact of NUS. This combines methods related to structured household surveys and qualitative information from Focus Group Discussions (FGDs) (related to **Task 3.1**, Lead University of Tokyo)