

Original Paper

Collaborative Survey of Eggplant Genetic Resources in Lao PDR, 2017

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Summary

Under a Joint Research Agreement (JRA), the National Institute of Agrobiological Sciences (now the National Agriculture and Food Research Organization [NARO]), Japan, and the National Agriculture and Forestry Research Institute (NAFRI), Lao People's Democratic Republic (Lao PDR) have collaborated since 2014 to survey plant genetic resources in Lao PDR. The main objective of this current survey was to collect samples of eggplant (*Solanum melongena* L.) and related crop species in the Sekong and Attapeu provinces, of southeastern Lao PDR. From 13th-29th of November 2017, we collected 200 samples, including *S. melongena* (182) and additional *Solanum* spp. (18). We found a wide diversity of eggplant landraces in southeastern Lao PDR, with a variation in fruit shape (flattened, globular, ovoid, pear shaped, ellipsoid, cylindrical), sizes (24 to 153 mm long), and colors (purple, green, white); spineless landraces were also common. The collected seeds were deposited at NAFRI, and a subset of the collection will be transferred to the Genetic Resources Center, NARO, Japan, as backup under the Standard Material Transfer Agreement (SMTA) of the International Treaty on Plant Genetic Resources for Food and Agriculture. Seeds from these genetic resources will be reproduced by self-pollination, and NAFRI staff will evaluate the characteristics of the plant material next season. Our plan is to evaluate the accessions' morphological characteristics and resistance to *Verticillium* wilt, *Fusarium* wilt, bacterial wilt and nematodes in Japan.

KEY WORDS: *Solanum*, vegetable, Lao People's Democratic Republic

Introduction

Since 2006, the National Institute of Agrobiological Sciences (NIAS, now the National Agriculture and Food Research Organization [NARO]) of Japan and the National Agriculture and Forestry Research Institute (NAFRI) of the Lao People's Democratic Republic (Lao PDR) have conducted collaborative surveys in Lao PDR for plant genetic resources under the Memorandum of Agreement and the Memorandum of Understanding (Sakata *et al.* 2008; Saito *et al.* 2009; Matsunaga *et al.* 2010; Okuizumi *et al.* 2011, 2013; Kawase *et al.* 2012).

In 2014, the NIAS and the NAFRI established a Joint Research Agreement (JRA) under the Plant Genetic Resources in Asia (PGRAsia) project funded by the Ministry of Agriculture, Forestry and Fisheries of Japan, to collect plant genetic resources (Okuizumi *et al.* 2016). This report describes the fourth survey under the PGRAsia project to collect vegetable plant genetic resources. In 2014, 2015 and 2016, 134, 124 and 108 samples of eggplant (*Solanum* spp., including crop wild relatives) were collected, respectively, from the Lao PDR northern provinces of Houaphan, Xiengkhouang, Oudomxay, Phongsaly, Luang Namtha and Bou Keo (Saito *et al.* 2015, 2016, 2017). Southeastern Lao PDR is mountainous (Photo 1) and many minority populations live there; there are at least 48 ethnic tribes live in Lao PDR overall (Chamberlain and Phomsombath 2003). There are difficulties in the logistics of reaching and interacting with the minority populations, so it is likely that many undescribed landraces still exist in this region. In this survey, we collected new plant material, primarily *Solanum* spp., from many villages in the southeastern provinces of Sekong and Attapeu.

Methods

Prior to the survey, Dr. Sisaphaithong collected information on eggplant genetic resources in the provinces of Sekong and Attapeu. Based on this information, we surveyed the area from 13th - 29th November 2017 (Table 1, Fig. 1). We rented a car (Photo 2) to visit local markets, farm stands, homes and agricultural fields to obtain samples of fruits and seeds. Work at each site included confirming the GPS location using a GPS receiver (eTrex 30J, Garmin international, Inc., Kansas, USA), gathering the samples, and interviewing locals to gather information about the collected plant material, such as the local name, usage, and area of cultivation (Photo 3). A principle goal was to collect only landraces. On 14th November 2017, we visited the Horticultural Research Center (HRC) to explain the objectives and plan our survey with the Director, Dr. Bounneuang Douangboupha, and staff members (Photo 4). On 27th November 2017, we revisited the HRC where we extracted seeds from the fruit samples and reported our preliminary results (Photo 5).

Results

We surveyed over 900 km (Table 1), collecting 200 samples from thirty-two villages in seven districts of the two provinces (Table 2). The collections included the species *Solanum melongena* L. (182 samples), *Solanum aethiopicum* L. (2), *Solanum torvum* Sw. (4), and *Solanum violaceum* L. (12) (Tables 3 and 4). Following the survey, collected seeds were deposited at the NAFRI, and a subset of the collection will be transferred to the Genetic Resources Center, NARO (NGRC), Japan, as a backup under the Standard Material Transfer Agreement (SMTA) of the International Treaty on Plant Genetic Resources for

Table 1. Itinerary of the survey

Date	Day	Itinerary	Stay	Distance covered (km)
13-Nov	Mon	Chubu 11:00 (TG645) - 15:40 Bangkok 19:35 (TG574) - 20:45 Vientiane	Vientiane	
14-Nov	Tue	Visit HRC, Discuss importing eggplant seeds & Prepare the survey	Vientiane	
15-Nov	Wed	Vientiane -- Pakse	Pakse	(677)
16-Nov	Thu	Pakse -- Sekong	Sekong	(149)
17-Nov	Fri	PAFO, La mam and Tha teng district, Sekong province	Sekong	128
18-Nov	Sat	La mam and Dark cheung district, Sekong province	Dark cheung	164
19-Nov	Sun	La mam and Dark cheung district, Sekong province	Sekong	115
20-Nov	Mon	Sekong -- Attapeu	Attapeu	95
21-Nov	Tue	PAFO, Saysettha and Samakhhixay district, Attapeu	Attapeu	87
22-Nov	Wed	Sanxay district, Attapeu province	Attapeu	103
23-Nov	Thu	Phouvong district, Attapeu province	Attapeu	108
24-Nov	Fri	Samakhhixay district, Attapeu province	Attapeu	126
25-Nov	Sat	Attapeu -- Savannakhet	Savannakhet	(433)
26-Nov	Sun	Savannakhet - Vientiane	Vientiane	(484)
27-Nov	Mon	Visit HRC & Discuss	Vientiane	
28-Nov	Tue	Vientiane 21:30 (TG575) -- 22:35 Bangkok	on flight	(Total 926)
29-Nov	Wed	Bangkok 00:05 (TG644) -- 7:30 Chubu		



Fig. 1. Main sites (●) visited during the 2017 survey in southeastern Lao PDR plotted on a free map provided by the GMS Sustainable Tourism Development Project in Lao PDR.

Food and Agriculture.

The remainder of this section describes the day-to-day details of our survey. Collected samples were mature *S. melongena* fruits, unless stated otherwise.

Table 2. Accessions collected

Province	District	No. of villages	<i>Solanum melongena</i>	<i>S. aethiopicum</i>	<i>S. torvum</i>	<i>S. violaceum</i>	Total
Sekong	La mam	7	30	0	1	1	32
Sekong	Tha teng	3	25	0	0	2	27
Sekong	Dark cheung	7	10	2	1	6	19
Attapeu	Phouvong	3	39	0	0	1	40
Attapeu	Samakkhixay	6	24	0	1	0	25
Attapeu	Sanxay	4	34	0	1	2	37
Attapeu	Saysettha	2	20	0	0	0	20
Total		32	182	2	4	12	200

15th November: We traveled 12 h from Vientiane, the capital of Lao PDR, to Pakse District via the districts of Paksan, Thakhek and Seno on Route 13S.

16th November: We traveled 5 h from Pakse to Sekong via Pakxong (Paksong) on Routes 18 and 18A. On the way, close to Pakxong, we passed a large Thai-owned coffee plantation (Photo 6).

17th November: We visited a market in the village of Vat Luang (Sekong Province) where we collected the first sample (No. 1), which was a round green fruit (Photo 7). Afterwards, we visited the Provincial Agriculture and Forestry Office (PAFO) of the Sekong Province (Photo 8) to explain our plans and objectives to the head of agriculture, Mr. Vixien Paramy (Photo 9). The head assigned a PAFO staff member to assist with our survey of the province and various staff members from the District Agriculture and Forestry Office (DAFO) to assist with the district surveys. Next, we journeyed toward the La Mam District and joined up with a La Mam DAFO staff member along the way. In the village of Tiew, we collected five seed samples (No. 2-6; Photo 10) but characteristics of the plants and fruits are unknown. Next, we went to the Tha Teng District. After lunch (Photo 11), a DAFO staff member of the Tha Teng District joined us to survey that district. In the village of Meun Mai, we collected one *S. violaceum* sample (No. 7; Photo 12); a local farmer said that young fruits from this plant were eaten with larb (a traditional Lao dish) and that the mature fruits were used in local medicines. In the same village, we collected four samples (Nos. 8-11) from a burnt field of upland rice (Photo 13), and an additional 12 samples from other fields (No. 12-23). Next, we surveyed the village of Meun Karng where we collected nine samples (No. 24-32), including *S. violaceum* (No. 27). On the way back to the town of Sekong, we collected one sample (No. 33) from the village of Toun Yoi (Tha Teng District) and another sample (No. 34) in Tiew (La Mam District).

18th November: First, we surveyed several villages of the La Mam District. In Tar Loung village, we collected three samples (No. 35-37). In Phoun Khone village, we collected ten samples (No. 38-47), including one *S. torvum* (No. 40). In Noun My Sai village, we collected four samples (No. 48-51), including one *S. violaceum* (No. 48), we then traveled to the Dark Cheung District, located close to the border with Vietnam (Photo 14). To visit this district, we had to cross the Sekong River in a ferry (Photo 15). After crossing the river, we traveled 2 h via Route 16, a poor road, to reach the Dark Cheung District. We had lunch, and afterward, a Dark Cheung DAFO staff member joined us to survey in the village of Dark Cheung where we collected one *S. violaceum* sample (No. 52) and one *S. aethiopicum* sample (No. 53;

Photo 16). We also observed a plant that bore long deep purple fruits but did not collect them because it was a commercial cultivar grown from imported seeds. In Noum Savean village, we collected one sample (No. 54). We also surveyed the village of Dakta where we observed many houses with straw roofs (Photo 17), but nothing was collected.

19th November: In Dark Cheung village we visited a market where we collected information on eggplant production. In Nong Yein village, we collected four samples (No. 55-58) including one large fruit of *S. torvum* (No. 58; Photo 18). In Dark Larn village, we collected three samples (No. 59-61), including two of *S. violaceum* (No. 60 and 61). In Dark Dor village, we collected five samples (No. 62-66), including a pale purple long fruit (No. 62; Photo 19), one of *S. violaceum* (No. 64) and one of *S. aethiopicum* (No. 66). In Dark Liene village, we collected two *S. violaceum* samples (No. 67 and 68). In the same village, we found another plant that bore long pale purple fruits (Photo 20) but were unable to collect it because none of the fruits were mature. In Sieng Long village, we collected two samples (No. 69 and 70); one of these (No. 69) was one-half of a mature fruit that a farmer gave to us. In our excursions, we observed many coffee fields. In Carsang Karg village (La Mam District), we collected six samples (No. 71-76). In Park Toon village (La Mam District), we collected two samples (No. 77 and 78). Afterward, we crossed the Sekong River in the same ferry to return to the town of Sekong.

20th November: We traveled 4 h to Attapeu town on Route 11. After our arrival in Attapeu, we extracted seeds from rotten fruits previously collected.

21st November: In Attapeu town, we visited a market (Photo 21) and collected two samples (No. 79 and 80). We then visited the PAFO office of the Attapeu Province, where we explained our plans and objectives to the director, Mr. Yarmmala Saittihakpanya, and PAFO staff members (Photo 22). The director assigned a PAFO staff member to assist with our survey of the Attapeu Province. Afterward, we visited the Saysetha DAFO (Photo 23) to explain our survey to its staff members. A DAFO staff member joined us for the surveying. The DAFO head of agriculture told us that there had been a village named the “village of eggplant,” but that the village had subsequently merged with two other villages to become Yai Ou Doum village. In the village previously known as the “village of eggplant”, we collected three samples before lunch (No. 81-83), and after lunch we collected 11 more samples (No. 84-94). Of these, one sample (No. 93; Photo 24) was only seed. A local farmer told us that immature fruits of the plant, could reach 20 cm long. In the same village, there was another form of eggplant that bore ovoid purple fruits, but we could not collect any seeds because there were no mature fruits present. In Doene Siem village, we collected six samples (No. 95-100); one sample (No. 97) was collected as seed by picking it up from the field ground (Photos 25 and 26).

22nd November: We visited the DAFO in the Tren Koum village of the Sanxay District to explain our survey to the staff members (Photo 27). The head of DAFO said that there were many landraces in the mountainous area but that the road to reach them was very poor. Next, we surveyed in the plains area of the Sanxay District. A DAFO staff member joined us at their office. In Tren Koum, we collected six samples (No. 101-106) including one *S. torvum* (No. 105). In Verng Xay village, we collected six samples (No. 107-112), including one *S. violaceum* (No. 110). A local farmer there told us that he cultivated eggplants from

mixed seed and had been doing so for several years (Photo 28). In Me Xay village, we collected 19 samples (No. 113-132). Six of them (No. 124-129), consisted of only mature fruits that a local farmer harvested from his mountain field and gave to us. One of them (No. 130) was only a dried fruit with the seed intact, so characteristics of the plants and fruits were unknown. In Xay See village, we collected five samples (No. 133-137), including one *S. violaceum* (No. 133). There, we observed well-maintained fields with a variety of plants (e.g., coriander, amaranth, cabbage, morning glory, eggplant, chili pepper, corn [maize]) to be sold in the Attapeu town market (Photo 29).

23rd November: We visited the DAFO of the Phouvong District to explain our survey to its staff members. The head said there were many landraces in the upland rice fields in the mountainous area, but the road to get there was inadequate for our car; thus, we only traveled the road as far as possible. A DAFO staff member joined us for this excursion, and we collected six samples (No. 138-143; only mature fruits). Along the way, a farmer joined us as a guide. In Vong Som Phou village, there were many upland rice fields, where farmers cultivate eggplants, chili peppers, watermelons, cucumbers, bananas and other plants. We surveyed several upland rice fields here collecting 24 samples (No. 144-167), including a pale green long fruit (No. 149; Photo 30) and one *S. violaceum* (No. 151). The highest field surveyed was at an elevation of ~460 m (Photo 31). After lunch, we visited the Ta Eoum village, located in a plains area, where we collected 10 samples (No. 168-177).

24th November: We visited the DAFO office of the Samakxixay District and explained our survey to the staff members, one of whom joined us for the excursion. In Vern Khaern village, we collected 10 samples (No. 178-187), including one *S. torvum* (No. 186). In Ka Soem village, we walked along a river where we encountered fields and collected two samples (No. 188 and 189). In Sork village, we collected one sample (No. 190). After lunch, we visited the village of Meurm Hou Marg and collected six samples (No. 191-196). In Tha Hin village, we collected four samples (No. 197-200). Of these, one (No. 200; Photo 32)

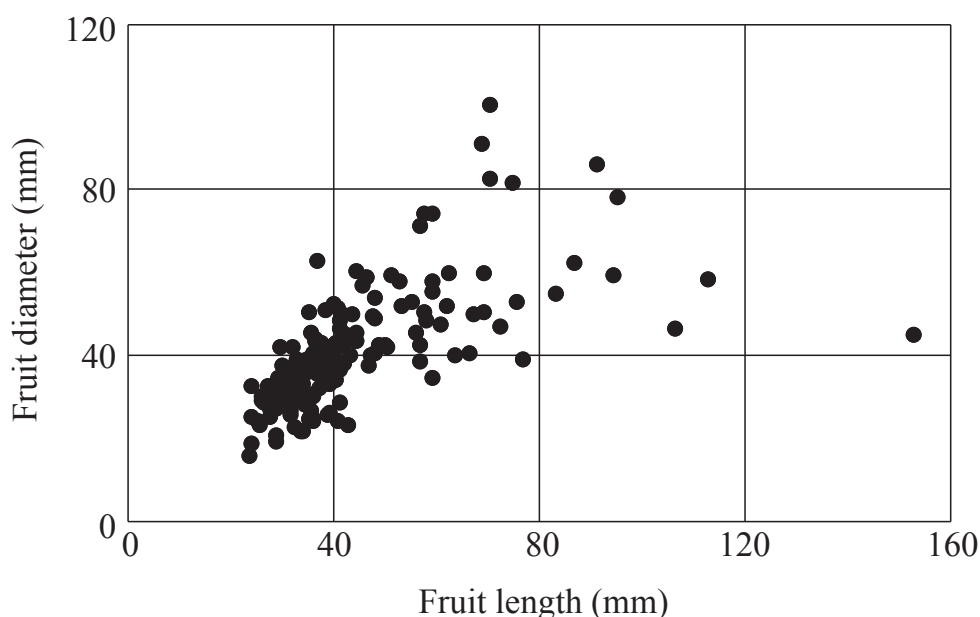


Fig. 2. Distribution of 173 *Solanum melongena* fruit samples on a scatter plot based on length versus diameter.

bore large round green fruits from which we collected the seed. A local farmer told us that fruits from this variety could grow as heavy as 1 kg.

25th November: We traveled 10 h via Pakxong and Pakse to Senon on Routes 11, 18A and 13S. After our arrival in Senon, we extracted seeds from rotten fruits previously collected.

26th November: We returned to Vientiane via Tahkek and Paksan on Route 13S. The journey took 9 h.

27th November: In Vientiane, we sorted the data and photos in the morning and in the afternoon returned to the HRC to report our preliminary results. The HRC staff members from our team extracted the seeds from our fruit collection and dried them.

Discussion

The rainy season in southern Lao PDR is usually over by the end of October, but like our last survey (Saito *et al.* 2017), it rained at times. If the late rainfall is an effect of climate change, we will have to reassess the time frames in future for exploring eggplant genetic resources in Lao PDR.

As we did not know their language, we could not communicate directly with the ethnic groups in the areas surveyed. However, we could communicate with them indirectly because the PAFO and the DAFO staff members acted as translators. We found a wide range of eggplant (*S. melongena*) diversity: the landraces' fruits had diverse shapes (flattened, globular, ovoid, pear shaped, ellipsoid or cylindrical), sizes (24 to 153 mm), and colors (purple, green or white) (Table 4, Fig. 2), and there were spineless landraces mostly in the Sekong and Attapeu provinces, as we had observed in northern Lao PDR (Saito *et al.* 2016, 2017). We will test the genetic diversity among the samples using DNA markers.

As we reported previously, the people in northern Lao PDR eat not only immature fruits but also the mature fruits. Therefore, mature fruits were sold in many markets in northern Lao PDR, which made it easier to collect seeds of eggplant landraces than in other regions. We found that people in southern Lao PDR rarely eat mature fruits, so mature fruits were seldom sold in markets. Although our survey focused on *S. melongena*, we also collected *S. violaceum*, *S. torvum* and *S. aethiopicum*. These latter species are primarily used in medicine but are also edible. In our previous survey in northern Lao PDR, we collected some *S. macrocarpon* samples; however, we did not find any *S. macrocarpon* L. during this survey. In contrast, we saw more *S. quitoense* Lam. (Laotians eat the raw fruits with papaya salad, etc.) in the southern part than in the northern part. Furthermore, if we consider all samples from this survey, except those of *S. melongena*, half of them were collected in the Dark Chung District. These differences in the consumption of fruits and *Solanum* spp. distribution between the northern and southern parts of Lao PDR are interesting. To understand whether these differences are attributable to culture or the environment, we would need to do more research. Finally, although 200 samples were collected in this survey, the heads of the PAFOs indicated that many other landraces are cultivated in mountainous areas that were inaccessible to us because of poor road conditions. We must survey those areas and collect more landraces soon.

We discussed and planned future cooperative activities with the HRC staffs, including a plan to train them to evaluate eggplant genetic resources and breed new cultivars. The seeds collected will be propagated by self-pollination, and the HRC staff members will evaluate these new plant resources the following season. The seeds produced next year at the HRC will be shared between government

representatives of the Lao PDR and Japan. In Japan, we also plan to evaluate the eggplants' morphological characteristics and resistance to *Verticillium* wilt, *Fusarium* wilt, bacterial wilt and nematodes.

Acknowledgments

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ラオスにおけるナス遺伝資源の共同探索，2017年

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和文摘要

本報告は、独立行政法人農業生物資源研究所とラオス農林省との間で2014年に締結された共同研究協定（JRA）に基づいて行われたラオス国における2017年のナス遺伝資源の調査報告である。調査は、2017年11月13～29日にかけて実施された。今回、我々はラオス国南東部地域であるセーコーン県およびアッタプー県を調査し、ナス栽培種 *Solanum melongena* を182点およびナス近縁種を18点の合計200点の種子サンプルを収集した。当該地域におけるナスの多様性は高く、果形や果色に広い変異が観察された。また、とげなし性の在来種が多かったことは興味深い。収集した遺伝資源の種子は、ラオス国立農林業研究所（NAFRI）において保存されるとともに、SMTA（標準材料移転契約）を用いて農研機構遺伝資源センターに移転され、バックアップとして保存される予定である。また、NAFRIでは、これら遺伝資源の種子を自殖による増殖の後、特性調査が行われる予定である。さらに、日本では、土壌伝染性病害虫への抵抗性を含む特性が調査される予定である。

Table 3. Characteristics' variation range of the *Solanum* accessions

Collection No.	Harvested fruit (immature fruit)				Skin color of mature fruit	Color of flower	Spiny (1) or spineless (0)			Collected from (tribes)	Remarks
	Skin color	Length (mm)	Length/Diameter	Shape			Calyx	Stem	Leaf		
1	Green	69.0	1.15	Globular	Yellow	-	0	-	-	Lao Loum	
2	Green	-	-	Globular	Yellow	White	0	0	0	Arluk	Only seeds
3	Green	-	-	Globular	Yellow	White	1	1	1	Arluk	Only seeds
4	Whitish Green	-	-	-	-	-	-	-	-	Arluk	Only seeds
5	Whitish Green	-	-	Globular	Yellow	-	0	0	0	Arluk	Only seeds
6	Pale Purple	-	-	Ellipsoid	Yellow	Light purple	0	0	0	Arluk	Only seeds
7	Green	11.0	1.03	Globular	Orange	Purple	1	1	1	Arluk	<i>Solanum violaceum</i>
8	Whitish Green	26.4	0.91	Globular	Yellow	Purple	0	0	0	Arluk	
9	Green	36.2	1.50	Ovoid	Yellow	Purple	0	0	0	Arluk	
10	-	30.6	0.83	Globular	Yellow	-	0	-	-	Arluk	Only mature fruits
11	Green	36.0	1.17	Globular	Yellow	Purple	1	1	1	Arluk	
12	Whitish Green	35.7	0.91	Globular	Yellow	White	1	0	0	Arluk	
13	Whitish Green	33.8	0.95	Globular	Yellow	Purple	1	0	0	Arluk	
14	Whitish Green	37.6	0.95	Globular	Yellow	White	0	0	0	Arluk	
15	Whitish Green	40.2	0.77	Flattened	Yellow	White	1	0	0	Arluk	
16	Whitish Green	29.2	1.05	Globular	Yellow	Purple	1	0	0	Arluk	
17	Whitish Green	29.6	0.70	Flattened	Yellow	-	1	0	0	Arluk	
18	Green	36.0	1.19	Ovoid	Yellow	-	0	0	0	Arluk	
19	Whitish Green	47.9	0.89	Globular	Yellow	White	1	0	0	Arluk	
20	Green	38.7	0.96	Globular	Yellow	Purple	1	0	0	Arluk	
21	Green	27.3	0.96	Globular	Yellow	White	0	0	0	Arluk	
22	Whitish Green	36.6	0.93	Globular	Yellow	Purple	1	0	1	Arluk	
23	Green	32.6	0.98	Globular	Yellow	-	0	0	0	Arluk	
24	Whitish Green	35.9	0.89	Globular	Yellow	White	0	0	0	Arluk	Only mature fruits
25	Whitish Green	31.5	0.84	Globular	Yellow	White	0	0	0	Arluk	Only mature fruits
26	Green	37.1	1.15	Globular	Yellow	White	0	0	0	Arluk	
27	Green	7.2	0.89	Globular	Orange	Purple	1	1	1	Arluk	<i>Solanum violaceum</i>
28	Whitish Green	35.4	1.17	Ovoid	Yellow	White	0	0	0	Arluk	
29	Whitish Green	36.0	0.92	Globular	Yellow	White	0	0	0	Arluk	
30	White	32.0	0.91	Globular	Yellow	White	1	0	0	Arluk	
31	Green	26.0	0.90	Globular	Yellow	-	0	0	0	Arluk	
32	White	31.1	0.99	Globular	Yellow	White	1	1	0	Arluk	
33	Whitish Green	37.8	0.88	Globular	Yellow	White	1	0	0	Taio	
34	Green	56.7	0.79	Flattened	Yellow	-	0	0	0	Arluk	
35	Whitish Green	28.5	0.93	Globular	Yellow	Purple	0	0	0	Lao Loum	
36	Whitish Green	37.5	0.99	Globular	Yellow	White	0	0	0	Lao Loum	
37	Green	24.2	0.96	Globular	Yellow	White	1	0	1	Lao Loum	
38	Whitish Green	31.5	1.04	Ovoid	Yellow	Purple	0	0	0	Lao Loum	
39	Whitish Green	33.9	0.95	Globular	Yellow	-	0	0	0	Lao Loum	
40	Green	11.3	1.01	Globular	Brown	-	0	1	0	Lao Loum	<i>Solanum torvum</i>
41	Green	59.1	0.79	Flattened	Yellow	White	1	0	0	Lao Loum	
42	Green	32.4	0.91	Globular	Yellow	Purple	0	0	0	Lao Loum	
43	Whitish Green	33.8	1.01	Globular	Yellow	Purple	1	1	1	Lao Loum	
44	Whitish Green	28.7	1.04	Globular	Yellow	Purple	1	1	1	Lao Loum	
45	White	43.0	1.85	Ovoid	Yellow	White	0	0	0	Lao Loum	
46	Whitish Green	28.6	0.91	Globular	Yellow	White	0	0	0	Lao Loum	
47	Green	40.9	1.07	Globular	Yellow	White	0	0	0	Lao Loum	
48	Green	9.2	1.00	Globular	Orange	Purple	1	1	1	Talieng	<i>Solanum violaceum</i>
49	Whitish Green	43.0	0.96	Globular	Yellow	-	1	0	0	Talieng	
50	-	31.5	0.85	Flattened	Yellow	Purple	0	0	0	Talieng	Only mature fruits
51	Whitish Green	32.5	0.99	Globular	Yellow	White	0	0	0	Talieng	
52	Green	8.9	0.98	Globular	Orange	Purple	0	0	0	Talieng	<i>Solanum violaceum</i>
53	White	26.0	0.72	Flattened	Orange	White	0	0	0	Talieng	<i>Solanum aethiopicum</i>
54	Green	28.9	1.05	Globular	Yellow	White	1	1	1	Talieng	
55	Whitish Green	43.6	0.88	Globular	Yellow	Purple	0	0	0	Talieng	
56	Whitish Green	34.0	1.57	Ovoid	Yellow	-	1	0	0	Talieng	
57	Whitish Green	47.5	0.96	Globular	Yellow	Purple	0	0	0	Talieng	
58	Green	14.3	1.01	Globular	Brown	White	0	1	1	Talieng	<i>Solanum torvum</i>
59	White	41.2	0.85	Flattened	Yellow	White	0	0	0	Yae	
60	Green	9.2	0.90	Globular	Orange	Purple	0	0	0	Yae	<i>Solanum violaceum</i>
61	Green	8.4	0.88	Globular	Orange	Purple	0	0	0	Yae	<i>Solanum violaceum</i>
62	Purple	152.8	3.40	Cylindrical	-	Purple	1	0	0	Talieng	
63	White	62.0	1.19	Ovoid	Yellow	-	0	0	0	Talieng	
64	Green	9.6	1.01	Globular	Orange	Purple	0	0	0	Talieng	<i>Solanum violaceum</i>
65	Green	68.7	0.75	Flattened	Yellow	Purple	1	0	0	Talieng	
66	White	28.6	0.71	Flattened	Orange	-	0	0	0	Talieng	<i>Solanum aethiopicum</i>
67	Green	11.4	1.01	Globular	Orange	Purple	1	1	1	Talieng	<i>Solanum violaceum</i>
68	Green	9.3	0.82	Globular	Orange	Purple	0	0	0	Talieng	<i>Solanum violaceum</i>
69	Whitish Green	70.5	0.70	Flattened	Yellow	-	1	0	0	Lao Loum	
70	Whitish Green	45.6	0.80	Flattened	Yellow	White	1	0	1	Lao Loum	
71	Whitish Green	41.3	1.12	Ovoid	Yellow	White	0	0	0	Arluk	Only mature fruits
72	Whitish Green	30.3	0.95	Pear shaped	Yellow	White	0	0	0	Arluk	
73	White	27.6	0.86	Flattened	Yellow	Purple	0	0	0	Arluk	

Table 3. (Continued).

Collection No.	Harvested fruit (immature fruit)				Skin color of mature fruit	Color of flower	Spiny (1) or spineless (0)			Collected from (tribes)	Remarks
	Skin color	Length (mm)	Length/Diameter	Shape			Calyx	Stem	Leaf		
74	Whitish Green	37.9	1.15	Ovoid	Yellow	White	1	0	0	Arluk	
75	Whitish Green	42.6	0.95	Globular	Yellow	-	0	0	0	Arluk	
76	Whitish Green	59.2	1.02	Globular	Yellow	Purple	0	0	0	Arluk	Only mature fruits
77	Whitish Green	40.8	1.67	Ovoid	Yellow	Purple	0	0	0	Lao Targ	
78	Whitish Green	37.0	0.59	Flattened	Yellow	-	0	0	0	Lao Targ	
79	Green	42.1	0.97	Globular	Yellow	-	0	-	-	-	
80	White	66.4	1.63	Ovoid	Yellow	-	0	-	-	-	
81	Green	32.4	1.43	Ovoid	Yellow	Purple	0	0	0	Brao	
82	White	27.5	1.01	Globular	Yellow	Purple	0	0	0	Brao	
83	White	39.3	1.18	Ovoid	Yellow	-	0	-	-	Brao	
84	Whitish Green	57.6	0.77	Flattened	Yellow	Purple	0	0	0	Brao	Only mature fruits
85	Whitish Green	50.0	1.18	Ovoid	Yellow	Purple	0	0	0	Brao	
86	Whitish Green	42.1	1.10	Ovoid	Yellow	Purple	0	0	0	Brao	
87	Whitish Green	32.7	0.83	Flattened	Yellow	Purple	0	0	0	Brao	
88	Whitish Green	32.0	0.76	Flattened	Yellow	White	0	0	0	Brao	
89	White	62.2	1.04	Globular	Yellow	White	0	0	0	Brao	
90	Greenish Purple	47.1	1.18	Ovoid	Yellow	Purple	0	0	0	Brao	
91	Green	40.5	0.97	Pear shaped	Yellow	-	0	0	0	Brao	
92	White	36.5	0.96	Globular	Yellow	-	0	0	0	Brao	
93	White	230.0	-	Cylindrical	Yellow	Purple	0	0	0	Brao	Only seeds
94	Green	44.6	1.03	Globular	Yellow	Purple	0	0	0	Brao	
95	Whitish Green	70.3	0.85	Globular	Yellow	Purple	0	0	0	Lao Loum	
96	-	51.3	0.87	Flattened	Yellow	Purple	0	0	0	Lao Loum	Only mature fruits
97	Purple	95.0	1.21	Pear shaped	-	Purple	0	0	0	Lao Loum	
98	White	-	-	-	-	-	-	-	-	Lao Loum	
99	White	30.2	0.92	Globular	Yellow	Purple	0	0	0	Lao Loum	
100	-	91.0	1.06	Pear shaped	Yellow	Purple	0	0	0	Lao Loum	
101	-	32.6	1.12	Globular	Yellow	Purple	0	0	0	Lavae	
102	-	38.5	0.75	Flattened	Yellow	White	0	0	0	Lavae	
103	Whitish Green	36.4	0.84	Flattened	Yellow	White	0	0	0	Lavae	
104	White	29.4	0.85	Flattened	Yellow	White	0	0	0	Lavae	
105	Green	13.6	1.00	Globular	Brown	White	-	-	-	Lavae	<i>Solanum torvum</i>
106	White	27.4	0.84	Flattened	Yellow	Purple	0	0	0	Lavae	
107	Green	33.8	1.56	Ovoid	Yellow	Purple	0	0	0	Talieng	
108	Green	46.9	1.25	Ovoid	Yellow	Purple	0	0	0	Talieng	
109	White	23.7	1.51	Ovoid	Yellow	White	0	0	0	Talieng	
110	Green	10.9	1.07	Globular	Orange	Purple	0	0	0	Talieng	<i>Solanum violaceum</i>
111	Whitish Green	32.6	0.97	Globular	Yellow	Purple	0	0	0	Talieng	
112	-	35.2	1.41	Ovoid	Yellow	-	0	0	0	Talieng	Only mature fruits
113	Whitish Green	26.0	0.86	Globular	Yellow	Purple	0	0	0	Talieng	
114	-	37.2	0.96	Ovoid	Yellow	-	0	0	0	Talieng	Only mature fruits
115	Whitish Green	36.3	0.96	Globular	Yellow	Purple	0	0	0	Talieng	
116	White	40.4	1.17	Globular	Yellow	-	0	0	0	Talieng	
117	Whitish Green	48.8	1.14	Ovoid	Yellow	Purple	0	0	0	Talieng	Only mature fruits
118	White	39.1	1.50	Ovoid	Yellow	-	0	0	0	Talieng	
119	Whitish Green	36.6	0.83	Globular	Yellow	Purple	0	0	0	Talieng	
120	Whitish Green	75.7	1.43	Ellipsoid	Yellow	-	0	0	0	Talieng	
121	Whitish Green	31.4	0.98	Globular	Yellow	-	0	0	0	Talieng	
122	Whitish Green	35.0	0.89	Flattened	Yellow	-	0	0	0	Talieng	
123	Green	46.6	0.79	Flattened	Yellow	-	0	-	-	Talieng	
124	-	55.8	1.22	Ovoid	Yellow	-	0	-	-	Talieng	Only mature fruits
125	-	58.1	1.19	Ovoid	Yellow	-	0	-	-	Talieng	Only mature fruits
126	-	67.2	1.34	Ovoid	Yellow	-	0	-	-	Talieng	Only mature fruits
127	Whitish Green	60.8	1.28	Ovoid	Yellow	-	0	-	-	Talieng	
128	Whitish Green	63.5	1.58	Ovoid	Yellow	-	0	-	-	Talieng	
129	-	55.3	1.04	Pear shaped	Yellow	-	0	-	-	Talieng	
130	-	-	-	-	-	-	-	-	-	Talieng	Only seeds
131	-	27.3	0.90	Globular	Yellow	White	0	0	0	Talieng	Only mature fruits
132	-	32.5	1.12	Globular	Yellow	Purple	0	0	0	Talieng	Only mature fruits
133	Green	8.5	0.87	Globular	Orange	Purple	0	0	0	Lao Loum	<i>Solanum violaceum</i>
134	Whitish Green	35.9	1.44	Ovoid	Yellow	Purple	0	0	0	Lao Loum	
135	-	33.3	0.98	Globular	Yellow	White	1	1	1	Lao Loum	
136	Whitish Green	30.8	0.87	Globular	Yellow	-	1	-	-	Lao Loum	
137	Green	29.3	0.98	Globular	Yellow	Purple	1	1	1	Lao Loum	
138	-	83.2	1.52	Ovoid	Yellow	-	0	-	-	Brao	Only mature fruits
139	-	38.8	1.04	Globular	Yellow	-	0	-	-	Brao	Only mature fruits
140	-	38.7	0.92	Flattened	Yellow	-	0	-	-	Brao	Only mature fruits
141	-	50.6	1.20	Ovoid	Yellow	-	0	-	-	Brao	Only mature fruits
142	-	56.6	1.33	Ovoid	Yellow	-	0	-	-	Brao	Only mature fruits
143	-	59.3	1.70	Ovoid	Yellow	-	0	-	-	Brao	Only mature fruits
144	Green	53.1	1.02	Globular	Yellow	-	1	0	0	Brao	

Table 3. (Continued).

Collection No.	Harvested fruit (immature fruit)				Skin color of mature fruit	Color of flower	Spiny (1) or spineless (0)			Collected from (tribes)	Remarks
	Skin color	Length (mm)	Length/Diameter	Shape			Calyx	Stem	Leaf		
145	White	69.2	1.36	Ovoid	Yellow	Purple	1	0	0	Brao	
146	-	76.7	1.95	Ellipsoid	Yellow	-	0	0	0	Brao	Only mature fruits
147	-	86.8	1.39	Ovoid	Yellow	-	0	0	0	Brao	Only mature fruits
148	Green	94.3	1.58	Ellipsoid	Yellow	Purple	1	0	0	Brao	
149	Pale Green	106.4	2.29	Ellipsoid	Yellow	Purple	0	0	0	Brao	
150	Pale Green	112.6	1.93	Ellipsoid	Yellow	-	1	0	0	Brao	
151	Green	9.0	1.08	Globular	Orange	-	0	0	0	Brao	<i>Solanum violaceum</i>
152	Green	31.5	1.17	Ovoid	Yellow	-	0	0	0	Brao	
153	-	34.5	1.23	Ovoid	Yellow	-	0	0	0	Brao	Only mature fruits
154	-	41.0	0.80	Flattened	Yellow	-	1	-	-	Brao	
155	-	30.3	1.06	Ovoid	Yellow	-	0	-	-	Brao	Only mature fruits
156	-	25.4	1.04	Globular	Yellow	-	0	-	-	Brao	Only mature fruits
157	White	35.5	1.32	Ovoid	Yellow	-	0	0	0	Brao	
158	-	36.7	1.03	Globular	Yellow	-	0	0	0	Brao	Only mature fruits
159	-	28.9	1.38	Ovoid	Yellow	-	0	-	-	Brao	Only mature fruits
160	-	28.6	0.91	Globular	Yellow	White	0	0	0	Brao	Only mature fruits
161	Green	31.0	1.07	Globular	Yellow	Purple	0	0	0	Brao	
162	Greenish Purple	33.2	0.99	Globular	Yellow	White	0	0	0	Brao	
163	Green	52.9	0.92	Globular	Yellow	Purple	1	0	0	Brao	
164	Greenish Purple	56.7	1.46	Ovoid	Yellow	-	0	0	0	Brao	
165	-	30.0	0.79	Globular	Yellow	-	0	0	0	Brao	Only mature fruits
166	-	34.0	1.03	Globular	Yellow	-	0	0	0	Brao	Only mature fruits
167	Pale Green	37.9	1.05	Globular	Yellow	-	0	0	0	Brao	
168	Green	32.5	0.97	Globular	Yellow	Purple	1	1	1	Brao	
169	-	31.3	1.02	Globular	Yellow	Purple	0	0	0	Brao	Only mature fruits
170	-	-	-	-	-	-	-	-	-	Brao	
171	-	34.3	0.96	Globular	Yellow	Purple	0	0	0	Brao	Only mature fruits
172	Whitish Green	32.3	0.86	Globular	Yellow	Purple	1	1	1	Brao	
173	Green	59.2	1.07	Globular	-	White	0	0	0	Brao	
174	Greenish Purple	72.4	1.54	Ovoid	Yellow	Purple	1	0	0	Brao	
175	Greenish Purple	41.2	0.89	Globular	Yellow	-	0	0	0	Brao	
176	Pale Green	44.5	0.98	Globular	Yellow	-	0	0	0	Brao	
177	Whitish Green	40.5	0.94	Globular	Yellow	White	0	-	-	Brao	Only mature fruits
178	Pale Green	25.6	1.10	Globular	Yellow	White	0	0	0	Lao Loum	
179	Pale Green	28.7	1.47	Ovoid	Yellow	White	0	0	0	Lao Loum	
180	White	24.2	1.29	Ovoid	Yellow	White	0	0	0	Lao Loum	
181	Green	31.5	1.22	Ovoid	Yellow	Purple	0	0	0	Lao Loum	
182	Whitish Green	27.5	0.96	Globular	Yellow	White	0	0	0	Lao Loum	
183	Greenish Purple	48.1	1.19	Ovoid	-	-	0	0	0	Lao Loum	
184	White	47.9	0.97	Pear shaped	-	Purple	0	0	0	Lao Loum	
185	-	30.5	0.90	Globular	Yellow	Purple	1	1	1	Lao Loum	Only mature fruits
186	Green	12.5	1.05	Globular	Brown	White	0	1	1	Lao Loum	<i>Solanum torvum</i>
187	Whitish Green	28.6	0.96	Globular	Yellow	Purple	1	1	1	Lao Loum	
188	White	41.1	1.44	Ovoid	Yellow	Purple	0	0	0	Lao Loum	
189	White	27.8	1.11	Globular	Yellow	Purple	0	0	0	Lao Loum	
190	Whitish Green	23.9	0.73	Flattened	Yellow	-	0	0	0	Lao Loum	
191	White	44.4	0.73	Flattened	Yellow	White	1	0	0	Lao Loum	
192	Greenish Purple	27.7	0.85	Globular	Yellow	Purple	0	0	0	Lao Loum	
193	Whitish Green	35.7	0.78	Flattened	Yellow	Purple	0	0	0	Lao Loum	
194	Green	57.5	1.14	Ovoid	Yellow	Purple	0	0	0	Lao Loum	
195	Whitish Green	35.2	0.70	Flattened	Yellow	-	0	0	0	Lao Loum	Ribs on fruit
196	Purple	41.7	0.83	Globular	Yellow	Purple	0	0	0	Lao Loum	
197	Pale purple	33.4	1.04	Globular	Yellow	Purple	0	0	0	Lao Loum	
198	Pale Green	43.2	1.07	Ovoid	Yellow	-	0	0	0	Lao Loum	
199	Green	38.8	1.51	Ovoid	Yellow	Purple	0	0	0	Lao Loum	
200	Whitish Green	74.7	0.91	Globular	-	White	1	0	0	Lao Loum	1 kg per one fruit, Only seeds

Table 4. The list of plant genetic resources collected

Coll. No.	JP No.	Passport No.	JP Name	Date	Genus and species	Province/ State	District	Village	North latitude	East longitude	Elevation (m)	Source (Market name)	Status	Local name
1	261481	30073832	COL/LAOS/2017/NIVFS/001	17-Nov	<i>Solanum melongena</i>	Sekong	La mam	Vat luang	15-20-58.60	106-43-57.50	154	village market	landrace	-
2	261482	30073833	COL/LAOS/2017/NIVFS/002	17-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tiew	15-25-05.23	106-36-36.58	289	farmland	landrace	-
3	261483	30073834	COL/LAOS/2017/NIVFS/003	17-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tiew	15-25-05.23	106-36-36.58	289	farmland	landrace	Mark kheua
4	261484	30073835	COL/LAOS/2017/NIVFS/004	17-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tiew	15-25-05.23	106-36-36.58	289	farmland	landrace	Mark kheua
5	261485	30073836	COL/LAOS/2017/NIVFS/005	17-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tiew	15-25-05.23	106-36-36.58	289	farmland	landrace	Mark kheua
6	261486	30073837	COL/LAOS/2017/NIVFS/006	17-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tiew	15-25-05.23	106-36-36.58	289	farmland	landrace	Mark kheua
7	261487	30073838	COL/LAOS/2017/NIVFS/007	17-Nov	<i>Solanum violaceum</i>	Sekong	Tha teng	Meun mai	15-27-28.03	106-24-07.62	786	farmland	landrace	Eum yang
8	261488	30073839	COL/LAOS/2017/NIVFS/008	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-28.03	106-24-07.62	786	farmland	landrace	Kalay kheun
9	261489	30073840	COL/LAOS/2017/NIVFS/009	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-28.03	106-24-07.62	786	farmland	landrace	Kalay kheun
10	261490	30073841	COL/LAOS/2017/NIVFS/010	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-28.03	106-24-07.62	786	farmland	landrace	Kalay kheun
11	261491	30073842	COL/LAOS/2017/NIVFS/011	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-28.03	106-24-07.62	786	farmland	landrace	Kalay kheun
12	261492	30073843	COL/LAOS/2017/NIVFS/012	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Palay peun
13	261493	30073844	COL/LAOS/2017/NIVFS/013	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Palay pean
14	261494	30073845	COL/LAOS/2017/NIVFS/014	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Palay pean
15	261495	30073846	COL/LAOS/2017/NIVFS/015	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
16	261496	30073847	COL/LAOS/2017/NIVFS/016	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
17	261497	30073848	COL/LAOS/2017/NIVFS/017	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
18	261498	30073849	COL/LAOS/2017/NIVFS/018	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
19	261499	30073850	COL/LAOS/2017/NIVFS/019	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
20	261500	30073851	COL/LAOS/2017/NIVFS/020	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
21	261501	30073852	COL/LAOS/2017/NIVFS/021	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
22	261502	30073853	COL/LAOS/2017/NIVFS/022	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
23	261503	30073854	COL/LAOS/2017/NIVFS/023	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun mai	15-27-34.21	106-24-04.54	780	farmland	landrace	Kalay pean
24	261504	30073855	COL/LAOS/2017/NIVFS/024	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-54.49	106-22-32.42	764	farmland	landrace	Kalay pean
25	261505	30073856	COL/LAOS/2017/NIVFS/025	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-54.49	106-22-32.42	764	farmland	landrace	Kalay pean
26	261506	30073857	COL/LAOS/2017/NIVFS/026	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-54.49	106-22-32.42	764	farmland	landrace	Kalay pean
27	261507	30073858	COL/LAOS/2017/NIVFS/027	17-Nov	<i>Solanum violaceum</i>	Sekong	Tha teng	Meun karnng	15-28-53.80	106-22-34.18	770	farmland	landrace	Por
28	261508	30073859	COL/LAOS/2017/NIVFS/028	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-53.80	106-22-34.18	770	farmland	landrace	Kalay pean
29	261509	30073860	COL/LAOS/2017/NIVFS/029	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-53.80	106-22-34.18	770	farmland	landrace	Kalay pean
30	261510	30073861	COL/LAOS/2017/NIVFS/030	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-53.80	106-22-34.18	770	farmland	landrace	Kalay pean
31	261511	30073862	COL/LAOS/2017/NIVFS/031	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-53.80	106-22-34.18	770	farmland	landrace	Kalay pean
32	261512	30073863	COL/LAOS/2017/NIVFS/032	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Meun karnng	15-28-53.80	106-22-34.18	770	farmland	landrace	Kalay pean
33	261513	30073864	COL/LAOS/2017/NIVFS/033	17-Nov	<i>Solanum melongena</i>	Sekong	Tha teng	Toun yoi	15-31-08.72	106-21-32.17	660	farmland	landrace	Laen beuang
34	261514	30073865	COL/LAOS/2017/NIVFS/034	17-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tiew	15-25-05.44	106-36-13.09	289	farmland	landrace	Peun
35	261515	30073866	COL/LAOS/2017/NIVFS/035	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tar loung	15-20-44.19	106-43-52.91	146	farmland	landrace	Mark keur
36	261516	30073867	COL/LAOS/2017/NIVFS/036	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tar loung	15-20-44.19	106-43-52.91	146	farmland	landrace	Mark keur
37	261517	30073868	COL/LAOS/2017/NIVFS/037	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Tar loung	15-20-44.19	106-43-52.91	146	farmland	landrace	Mark keur
38	261518	30073869	COL/LAOS/2017/NIVFS/038	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-50.67	106-44-02.30	142	farmland	landrace	Mark kuer
39	261519	30073870	COL/LAOS/2017/NIVFS/039	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-50.67	106-44-02.30	142	farmland	landrace	Mar kuer
40	261520	30073871	COL/LAOS/2017/NIVFS/040	18-Nov	<i>Solanum torvum</i>	Sekong	La mam	Phoun khone	15-20-50.67	106-44-02.30	142	farmland	landrace	Mar kuer
41	261521	30073872	COL/LAOS/2017/NIVFS/041	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-50.67	106-44-02.30	142	farmland	landrace	Mar kuer
42	261522	30073873	COL/LAOS/2017/NIVFS/042	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-50.67	106-44-02.30	142	farmland	landrace	Mar-kuer

Table 4. (Continued).

Coll. No.	JP No.	Passport No.	JP Name	Date	Genus and species	Province/ State	District	Village	North latitude	East longitude	Elevation (m)	Source (Market name)	Status	Local name
43	261523	30073874	COL/LAOS/2017/NIVFS/043	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-47.63	106-44-10.53	149	farmland	landrace	Mar kuer
44	261524	30073875	COL/LAOS/2017/NIVFS/044	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-47.63	106-44-10.53	149	farmland	landrace	Mar kuer
45	261525	30073876	COL/LAOS/2017/NIVFS/045	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-47.63	106-44-10.53	149	farmland	landrace	Mar kuer kao
46	261526	30073877	COL/LAOS/2017/NIVFS/046	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-47.63	106-44-10.53	149	farmland	landrace	Mar kuer
47	261527	30073878	COL/LAOS/2017/NIVFS/047	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Phoun khone	15-20-47.63	106-44-10.53	149	farmland	landrace	Mar kuer
48	261528	30073879	COL/LAOS/2017/NIVFS/048	18-Nov	<i>Solanum violaceum</i>	Sekong	La mam	Noun my sai	15-20-44.18	106-43-38.11	150	farmland	landrace	Mark kuer tong yen
49	261529	30073880	COL/LAOS/2017/NIVFS/049	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Noun my sai	15-20-44.18	106-43-38.11	150	farmland	landrace	Kuer
50	261530	30073881	COL/LAOS/2017/NIVFS/050	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Noun my sai	15-20-44.18	106-43-38.11	150	farmland	landrace	Kuer
51	261531	30073882	COL/LAOS/2017/NIVFS/051	18-Nov	<i>Solanum melongena</i>	Sekong	La mam	Noun my sai	15-20-44.18	106-43-38.11	150	farmland	landrace	Kuer
52	261532	30073883	COL/LAOS/2017/NIVFS/052	18-Nov	<i>Solanum violaceum</i>	Sekong	Dark cheung	Dark cheung	15-28-41.82	107-15-33.38	1,232	farmland	landrace	Pra trong be
53	261533	30073884	COL/LAOS/2017/NIVFS/053	18-Nov	<i>Solanum aethiopicum</i>	Sekong	Dark cheung	Dark cheung	15-29-16.39	107-18-58.07	1,248	farmland	landrace	Pae tong
54	261534	30073885	COL/LAOS/2017/NIVFS/054	18-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Noum savean	15-28-08.45	107-16-10.10	1,219	farmland	landrace	Mar keur
55	261535	30073886	COL/LAOS/2017/NIVFS/055	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Nong yein	15-28-02.38	107-15-56.17	1,231	backyard	landrace	Mar keur
56	261536	30073887	COL/LAOS/2017/NIVFS/056	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Nong yein	15-28-02.38	107-15-56.17	1,231	farmland	landrace	Pra trong pae
57	261537	30073888	COL/LAOS/2017/NIVFS/057	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Nong yein	15-28-02.38	107-15-56.17	1,231	farmland	landrace	Pra trong pae
58	261538	30073889	COL/LAOS/2017/NIVFS/058	19-Nov	<i>Solanum torvum</i>	Sekong	Dark cheung	Nong yein	15-28-02.38	107-15-56.17	1,231	farmland	landrace	Pra trong pae
59	261539	30073890	COL/LAOS/2017/NIVFS/059	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Dark larn	15-24-33.84	107-15-02.51	1,199	farmland	landrace	Pres ga moun
60	261540	30073891	COL/LAOS/2017/NIVFS/060	19-Nov	<i>Solanum violaceum</i>	Sekong	Dark cheung	Dark larn	15-24-33.84	107-15-02.51	1,199	farmland	landrace	Par tong yern
61	261541	30073892	COL/LAOS/2017/NIVFS/061	19-Nov	<i>Solanum violaceum</i>	Sekong	Dark cheung	Dark larn	15-24-33.84	107-15-02.51	1,199	farmland	landrace	Pre tong yern
62	261542	30073893	COL/LAOS/2017/NIVFS/062	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Dark dor	15-22-17.74	107-13-03.75	1,060	farmland	landrace	Mark kuer
63	261543	30073894	COL/LAOS/2017/NIVFS/063	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Dark dor	15-22-17.74	107-13-03.75	1,060	farmland	landrace	Mark kuer
64	261544	30073895	COL/LAOS/2017/NIVFS/064	19-Nov	<i>Solanum violaceum</i>	Sekong	Dark cheung	Dark dor	15-21-47.73	107-12-22.24	1,192	farmland	landrace	Tong yern
65	261545	30073896	COL/LAOS/2017/NIVFS/065	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Dark dor	15-21-47.73	107-12-22.24	1,192	farmland	landrace	Tong yern
66	261546	30073897	COL/LAOS/2017/NIVFS/066	19-Nov	<i>Solanum aethiopicum</i>	Sekong	Dark cheung	Dark dor	15-21-47.73	107-12-22.24	1,192	farmland	landrace	Tong yern
67	261547	30073898	COL/LAOS/2017/NIVFS/067	19-Nov	<i>Solanum violaceum</i>	Sekong	Dark cheung	Dark liene	15-28-38.63	107-12-16.76	1,193	farmland	landrace	Per tong
68	261548	30073899	COL/LAOS/2017/NIVFS/068	19-Nov	<i>Solanum violaceum</i>	Sekong	Dark cheung	Dark liene	15-28-38.63	107-12-16.76	1,193	farmland	landrace	Pra tong
69	261549	30073900	COL/LAOS/2017/NIVFS/069	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Sieng long	15-19-55.80	107-05-49.91	1,199	farmland	landrace	Per tong
70	261550	30073901	COL/LAOS/2017/NIVFS/070	19-Nov	<i>Solanum melongena</i>	Sekong	Dark cheung	Sieng long	15-19-55.80	107-05-49.91	1,199	farmland	landrace	Mark kuer
71	261551	30073902	COL/LAOS/2017/NIVFS/071	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Carsang karg	15-17-34.98	106-54-41.13	212	farmland	landrace	Pernt
72	261552	30073903	COL/LAOS/2017/NIVFS/072	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Carsang karg	15-17-34.98	106-54-41.13	212	farmland	landrace	Pernt
73	261553	30073904	COL/LAOS/2017/NIVFS/073	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Carsang karg	15-17-34.98	106-54-41.13	212	farmland	landrace	Pernt
74	261554	30073905	COL/LAOS/2017/NIVFS/074	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Carsang karg	15-17-34.98	106-54-41.13	212	farmland	landrace	Pernt
75	261555	30073906	COL/LAOS/2017/NIVFS/075	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Carsang karg	15-17-34.98	106-54-41.13	212	farmland	landrace	Pernt
76	261556	30073907	COL/LAOS/2017/NIVFS/076	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Carsang karg	15-17-34.98	106-54-41.13	212	farmland	landrace	Pernt
77	261557	30073908	COL/LAOS/2017/NIVFS/077	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Park toon	15-17-41.35	106-45-10.91	149	farmland	landrace	Bernt
78	261558	30073909	COL/LAOS/2017/NIVFS/078	19-Nov	<i>Solanum melongena</i>	Sekong	La mam	Park toon	15-17-41.35	106-45-10.91	149	farmland	landrace	Bernt
79	261559	30073910	COL/LAOS/2017/NIVFS/079	21-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meung mai	14-48-19.39	106-50-20.25	100	village market	landrace	Mark kuer
80	261560	30073911	COL/LAOS/2017/NIVFS/080	21-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meung mai	14-48-19.39	106-50-20.25	100	village market	landrace	Mark kuer
81	261561	30073912	COL/LAOS/2017/NIVFS/081	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-45-23.30	106-57-21.33	107	farmland	landrace	Trop
82	261562	30073913	COL/LAOS/2017/NIVFS/082	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-45-23.30	106-57-21.33	107	farmland	landrace	Trop
83	261563	30073914	COL/LAOS/2017/NIVFS/083	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-45-23.30	106-57-21.33	107	farmland	landrace	Trop
84	261564	30073915	COL/LAOS/2017/NIVFS/084	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop

Table 4. (Continued).

Coll. No.	JP No.	Passport No.	JP Name	Date	Genus and species	Province/ State	District	Village	North-latitude	East-longitude	Elevation (m)	Source (Market name)	Status	Local name
85	261565	30073916	COL/LAOS/2017/NIVFS/085	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
86	261566	30073917	COL/LAOS/2017/NIVFS/086	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
87	261567	30073918	COL/LAOS/2017/NIVFS/087	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
88	261568	30073919	COL/LAOS/2017/NIVFS/088	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
89	261569	30073920	COL/LAOS/2017/NIVFS/089	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
90	261570	30073921	COL/LAOS/2017/NIVFS/090	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
91	261571	30073922	COL/LAOS/2017/NIVFS/091	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
92	261572	30073923	COL/LAOS/2017/NIVFS/092	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
93	261573	30073924	COL/LAOS/2017/NIVFS/093	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
94	261574	30073925	COL/LAOS/2017/NIVFS/094	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Yai ou doum	14-44-45.38	106-57-09.44	112	farmland	landrace	Trop
95	261575	30073926	COL/LAOS/2017/NIVFS/095	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Doene siem	14-46-13.53	106-55-31.41	100	farmland	landrace	Mark keur
96	261576	30073927	COL/LAOS/2017/NIVFS/096	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Doene siem	14-46-13.53	106-55-31.41	100	farmland	landrace	Mark keur
97	261577	30073928	COL/LAOS/2017/NIVFS/097	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Doene siem	14-46-13.53	106-55-31.41	100	farmland	landrace	Mark keur
98	261578	30073929	COL/LAOS/2017/NIVFS/098	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Doene siem	14-46-13.53	106-55-31.41	100	farmland	landrace	Mark keur
99	261579	30073930	COL/LAOS/2017/NIVFS/099	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Doene siem	14-46-13.53	106-55-31.41	100	farmland	landrace	Mark keur
100	261580	30073931	COL/LAOS/2017/NIVFS/100	21-Nov	<i>Solanum melongena</i>	Attapeu	Saysettha	Doene siem	14-46-13.53	106-55-31.41	100	farmland	landrace	Mark keur
101	261581	30073932	COL/LAOS/2017/NIVFS/101	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Tren koum	14-52-53.00	107-05-16.03	120	farmland	landrace	Trop
102	261582	30073933	COL/LAOS/2017/NIVFS/102	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Tren koum	14-52-53.00	107-05-16.03	120	farmland	landrace	Trop
103	261583	30073934	COL/LAOS/2017/NIVFS/103	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Tren koum	14-52-53.00	107-05-16.03	120	farmland	landrace	Trop
104	261584	30073935	COL/LAOS/2017/NIVFS/104	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Tren koum	14-52-53.00	107-05-16.03	120	farmland	landrace	Trop
105	261585	30073936	COL/LAOS/2017/NIVFS/105	22-Nov	<i>Solanum torvum</i>	Attapeu	Sanxay	Tren koum	14-52-53.00	107-05-16.03	120	farmland	landrace	Trop
106	261586	30073937	COL/LAOS/2017/NIVFS/106	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Tren koum	14-52-53.00	107-05-16.03	120	farmland	landrace	Trop
107	261587	30073938	COL/LAOS/2017/NIVFS/107	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Verng xay	14-55-31.45	107-03-31.58	137	farmland	landrace	Mark keur
108	261588	30073939	COL/LAOS/2017/NIVFS/108	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Verng xay	14-55-31.45	107-03-31.58	137	farmland	landrace	Mark keur
109	261589	30073940	COL/LAOS/2017/NIVFS/109	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Verng xay	14-55-31.45	107-03-31.58	137	farmland	landrace	Mark keur
110	261590	30073941	COL/LAOS/2017/NIVFS/110	22-Nov	<i>Solanum violaceum</i>	Attapeu	Sanxay	Verng xay	14-55-31.45	107-03-31.58	137	farmland	landrace	Mark keur
111	261591	30073942	COL/LAOS/2017/NIVFS/111	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Verng xay	14-55-31.45	107-03-31.58	137	farmland	landrace	Mark keur
112	261592	30073943	COL/LAOS/2017/NIVFS/112	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Verng xay	14-55-31.45	107-03-31.58	137	farmland	landrace	Mark keur
113	261593	30073944	COL/LAOS/2017/NIVFS/113	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark ker
114	261594	30073945	COL/LAOS/2017/NIVFS/114	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark ker
115	261595	30073946	COL/LAOS/2017/NIVFS/115	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
116	261596	30073947	COL/LAOS/2017/NIVFS/116	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
117	261597	30073948	COL/LAOS/2017/NIVFS/117	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
118	261598	30073949	COL/LAOS/2017/NIVFS/118	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
119	261599	30073950	COL/LAOS/2017/NIVFS/119	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
120	261600	30073951	COL/LAOS/2017/NIVFS/120	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keuk
121	261601	30073952	COL/LAOS/2017/NIVFS/121	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
122	261602	30073953	COL/LAOS/2017/NIVFS/122	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
123	261603	30073954	COL/LAOS/2017/NIVFS/123	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
124	261604	30073955	COL/LAOS/2017/NIVFS/124	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
125	261605	30073956	COL/LAOS/2017/NIVFS/125	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
126	261606	30073957	COL/LAOS/2017/NIVFS/126	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur

Table 4. (Continued).

Coll. No.	JP No.	Passport No.	JP Name	Date	Genus and species	Province/ State	District	Village	North latitude	East longitude	Elevation (m)	Source (Market name)	Status	Local name
127	261607	30073958	COL/LAOS/2017/NIVFS/127	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
128	261608	30073959	COL/LAOS/2017/NIVFS/128	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
129	261609	30073960	COL/LAOS/2017/NIVFS/129	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
130	261610	30073961	COL/LAOS/2017/NIVFS/130	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
131	261611	30073962	COL/LAOS/2017/NIVFS/131	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
132	261612	30073963	COL/LAOS/2017/NIVFS/132	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Me xay	14-55-33.64	107-02-46.47	142	farmland	landrace	Mark keur
133	261613	30073964	COL/LAOS/2017/NIVFS/133	22-Nov	<i>Solanum violaceum</i>	Attapeu	Sanxay	Xay see	14-47-35.57	106-52-59.07	88	farmland	landrace	Mark keur
134	261614	30073965	COL/LAOS/2017/NIVFS/134	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Xay see	14-47-35.57	106-52-59.07	88	farmland	landrace	Mark keur
135	261615	30073966	COL/LAOS/2017/NIVFS/135	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Xay see	14-47-35.57	106-52-59.07	88	farmland	landrace	Mark keur
136	261616	30073967	COL/LAOS/2017/NIVFS/136	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Xay see	14-47-35.57	106-52-59.07	88	farmland	landrace	Mark keur
137	261617	30073968	COL/LAOS/2017/NIVFS/137	22-Nov	<i>Solanum melongena</i>	Attapeu	Sanxay	Xay see	14-47-35.57	106-52-59.07	88	farmland	landrace	Mark keur
138	261618	30073969	COL/LAOS/2017/NIVFS/138	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Phong siam phoen	14-41-36.55	106-51-01.70	103	farmland	landrace	Mark keur
139	261619	30073970	COL/LAOS/2017/NIVFS/139	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Phong siam phoen	14-41-36.55	106-51-01.70	103	farmland	landrace	Mark keur
140	261620	30073971	COL/LAOS/2017/NIVFS/140	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Phong siam phoen	14-41-36.55	106-51-01.70	103	farmland	landrace	Mark keur
141	261621	30073972	COL/LAOS/2017/NIVFS/141	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Phong siam phoen	14-41-36.55	106-51-01.70	103	farmland	landrace	Mark keur
142	261622	30073973	COL/LAOS/2017/NIVFS/142	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Phong siam phoen	14-41-36.55	106-51-01.70	103	farmland	landrace	Mark keur
143	261623	30073974	COL/LAOS/2017/NIVFS/143	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Phong siam phoen	14-41-36.55	106-51-01.70	103	farmland	landrace	Mark keur
144	261624	30073975	COL/LAOS/2017/NIVFS/144	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-32-29.08	106-51-33.44	423	farmland	landrace	Mark keur
145	261625	30073976	COL/LAOS/2017/NIVFS/145	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-33-02.61	106-51-14.11	346	farmland	landrace	Mark keur
146	261626	30073977	COL/LAOS/2017/NIVFS/146	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-33-02.61	106-51-14.11	346	farmland	landrace	Mark keur
147	261627	30073978	COL/LAOS/2017/NIVFS/147	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-33-02.61	106-51-14.11	346	farmland	landrace	Mark keur
148	261628	30073979	COL/LAOS/2017/NIVFS/148	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-33-02.61	106-51-14.11	346	farmland	landrace	Mark keur
149	261629	30073980	COL/LAOS/2017/NIVFS/149	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-33-02.61	106-51-14.11	346	farmland	landrace	Mark keur
150	261630	30073981	COL/LAOS/2017/NIVFS/150	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-33-02.61	106-51-14.11	346	farmland	landrace	Mark keur
151	261631	30073982	COL/LAOS/2017/NIVFS/151	23-Nov	<i>Solanum violaceum</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
152	261632	30073983	COL/LAOS/2017/NIVFS/152	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
153	261633	30073984	COL/LAOS/2017/NIVFS/153	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
154	261634	30073985	COL/LAOS/2017/NIVFS/154	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
155	261635	30073986	COL/LAOS/2017/NIVFS/155	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
156	261636	30073987	COL/LAOS/2017/NIVFS/156	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
157	261637	30073988	COL/LAOS/2017/NIVFS/157	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
158	261638	30073989	COL/LAOS/2017/NIVFS/158	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
159	261639	30073990	COL/LAOS/2017/NIVFS/159	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-18.32	106-49-14.08	258	farmland	landrace	Mark keur
160	261640	30073991	COL/LAOS/2017/NIVFS/160	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-52.33	106-49-02.07	237	farmland	landrace	Mark keur
161	261641	30073992	COL/LAOS/2017/NIVFS/161	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-52.33	106-49-02.07	237	farmland	landrace	Mark keur
162	261642	30073993	COL/LAOS/2017/NIVFS/162	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-52.33	106-49-02.07	237	farmland	landrace	Mark keur
163	261643	30073994	COL/LAOS/2017/NIVFS/163	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-52.33	106-49-02.07	237	farmland	landrace	Mark keur
164	261644	30073995	COL/LAOS/2017/NIVFS/164	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-52.33	106-49-02.07	237	farmland	landrace	Mark keur
165	261645	30073996	COL/LAOS/2017/NIVFS/165	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-36-52.33	106-49-02.07	237	farmland	landrace	Mark keur
166	261646	30073997	COL/LAOS/2017/NIVFS/166	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-39-13.54	106-49-58.24	113	farmland	landrace	Mark keur
167	261647	30073998	COL/LAOS/2017/NIVFS/167	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Vong som phou	14-39-13.54	106-49-58.24	113	farmland	landrace	Mark keur
168	261648	30073999	COL/LAOS/2017/NIVFS/168	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-54.68	106-49-40.78	95	farmland	landrace	Trop

Table 4. (Continued).

Coll. No.	JP No.	Passport No.	JP Name	Date	Genus and species	Province/ State	District	Village	North latitude	East longitude	Elevation (m)	Source (Market name)	Status	Local name
169	261649	30074000	COL/LAOS/2017/NIVFS/169	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-54.68	106-49-40.78	95	farmland	landrace	Mark keur
170	261650	30074001	COL/LAOS/2017/NIVFS/170	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-54.68	106-49-40.78	95	farmland	landrace	Mark keur
171	261651	30074002	COL/LAOS/2017/NIVFS/171	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-54.68	106-49-40.78	95	farmland	landrace	Mark trop
172	261652	30074003	COL/LAOS/2017/NIVFS/172	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-54.68	106-49-40.78	95	farmland	landrace	Trop
173	261653	30074004	COL/LAOS/2017/NIVFS/173	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-34.89	106-49-16.65	107	farmland	landrace	Mark keur
174	261654	30074005	COL/LAOS/2017/NIVFS/174	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-34.89	106-49-16.65	107	farmland	landrace	Mark keur
175	261655	30074006	COL/LAOS/2017/NIVFS/175	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-34.89	106-49-16.65	107	farmland	landrace	Mark keur
176	261656	30074007	COL/LAOS/2017/NIVFS/176	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-34.89	106-49-16.65	107	farmland	landrace	Mark keur
177	261657	30074008	COL/LAOS/2017/NIVFS/177	23-Nov	<i>Solanum melongena</i>	Attapeu	Phouvong	Ta eoum	14-40-34.89	106-49-16.65	107	farmland	landrace	Mark keur
178	261658	30074009	COL/LAOS/2017/NIVFS/178	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
179	261659	30074010	COL/LAOS/2017/NIVFS/179	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
180	261660	30074011	COL/LAOS/2017/NIVFS/180	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
181	261661	30074012	COL/LAOS/2017/NIVFS/181	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
182	261662	30074013	COL/LAOS/2017/NIVFS/182	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
183	261663	30074014	COL/LAOS/2017/NIVFS/183	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
184	261664	30074015	COL/LAOS/2017/NIVFS/184	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
185	261665	30074016	COL/LAOS/2017/NIVFS/185	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
186	261666	30074017	COL/LAOS/2017/NIVFS/186	24-Nov	<i>Solanum torvum</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keing
187	261667	30074018	COL/LAOS/2017/NIVFS/187	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Vern khaern	14-49-50.19	106-49-08.84	99	farmland	landrace	Mark keur
188	261668	30074019	COL/LAOS/2017/NIVFS/188	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Ka soem	14-59-36.97	106-51-23.93	111	farmland	landrace	Mark keur
189	261669	30074020	COL/LAOS/2017/NIVFS/189	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Ka soem	14-59-57.94	106-51-20.90	113	farmland	landrace	Mark keur
190	261670	30074021	COL/LAOS/2017/NIVFS/190	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Sork	15-03-01.13	106-50-52.63	121	farmland	landrace	Mark keur
191	261671	30074022	COL/LAOS/2017/NIVFS/191	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meurm hou marg	15-10-17.68	106-45-43.38	170	farmland	landrace	Mark keur
192	261672	30074023	COL/LAOS/2017/NIVFS/192	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meurm hou marg	15-10-17.68	106-45-43.38	170	farmland	landrace	Mark keur
193	261673	30074024	COL/LAOS/2017/NIVFS/193	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meurm hou marg	15-10-17.68	106-45-43.38	170	farmland	landrace	Mark keur
194	261674	30074025	COL/LAOS/2017/NIVFS/194	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meurm hou marg	15-10-17.68	106-45-43.38	170	farmland	landrace	Mark keur
195	261675	30074026	COL/LAOS/2017/NIVFS/195	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meurm hou marg	15-08-50.53	106-43-38.57	256	farmland	landrace	Mark keur
196	261676	30074027	COL/LAOS/2017/NIVFS/196	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Meurm hou marg	15-08-50.53	106-43-38.57	256	farmland	landrace	Mark keur
197	261677	30074028	COL/LAOS/2017/NIVFS/197	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Tha hin	14-50-20.92	106-47-38.36	104	farmland	landrace	Mark keur
198	261678	30074029	COL/LAOS/2017/NIVFS/198	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Tha hin	14-50-20.92	106-47-38.36	104	farmland	landrace	Mark keur
199	261679	30074030	COL/LAOS/2017/NIVFS/199	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Tha hin	14-50-20.92	106-47-38.36	104	farmland	landrace	Mark keur
200	261680	30074031	COL/LAOS/2017/NIVFS/200	24-Nov	<i>Solanum melongena</i>	Attapeu	Samakkhixay	Tha hin	14-50-20.92	106-47-38.36	104	farmland	landrace	Mark keur



Photo 1. A village in the mountainous region of the Dark Cheung District.



Photo 2. Transport vehicle and guesthouse in the Samakkhixay District.



Photo 3. Interviewing local people in Toun Yoi village.



Photo 4. Discussion with the director of the Horticultural Research Center.



Photo 5. Reporting our preliminary results to staff of the Horticultural Research Center.



Photo 6. A large Thai coffee plantation in Pakxong (Paksong) village.

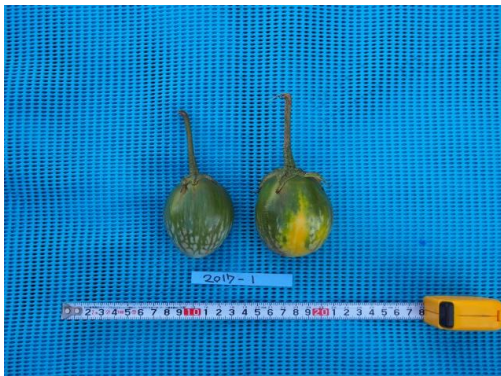


Photo 7. Fruits of eggplant collected in Vat Luang village (No. 1).



Photo 8. The Provincial Agriculture and Forestry Office of the Sekong Province.



Photo 9. Discussion with staff of the Provincial Agriculture and Forestry Office of the Sekong Province.



Photo 10. Eggplants fruit dried for preservation of seeds in Tiew village (No. 2-6).



Photo 11. Regional cuisine in a market in the Tha Teng District: raw vegetables including eggplants, larb, soup with cow organs, boiled peanuts, sticky rice, and grilled waxy corn.

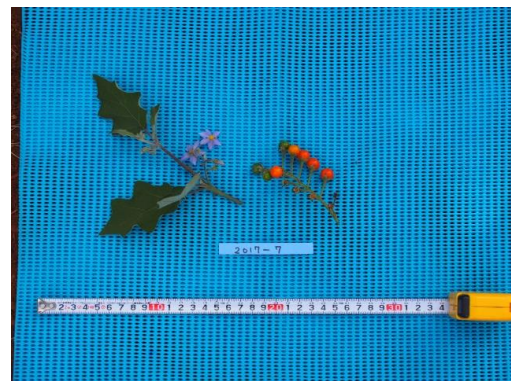


Photo 12. Fruits of *Solanum violaceum* collected in Meun Mai village (No. 7).



Photo 13. Survey of eggplants in an upland rice field in Meun Mai village.



Photo 14. The border with Vietnam in the Dark Cheung District.



Photo 15. A ferry crossing of the Sekong River.



Photo 16. Fruits of *Solanum aethiopicum* collected in the Dark Cheung (No. 53).



Photo 17. Houses with straw roofs in Dakta village.



Photo 18. Fruits of *Solanum torvum* collected in Nong Yein village (No. 58).



Photo 19. Fruits of eggplant collected in Dark Larn village (No. 62).



Photo 20. An eggplant observed in Dark Liene village.



Photo 21. Various vegetables, including eggplants, in a market in Attapeu town.



Photo 22. Discussion with staff of the Provincial Agriculture and Forestry Office of the Attapeu Province.



Photo 23. The District Agriculture and Forestry Office of the Saysettha District.



Photo 24. Dried fruits collected in Yai Ou Doum village (No. 93).



Photo 25. A fruit of an eggplant collected in Doene Siem village (No. 97).



Photo 26. Picking up eggplant seeds in Doene Siem village (No. 97).



Photo 27. Discussion with staff of the District Agriculture and Forestry Office of the Sanxay District.



Photo 28. *Solanum violaceum* after several years of growth in Tren Koum village.



Photo 29. A vegetable field in Xay See village.



Photo 30. Fruits of eggplant collected in Vong Som Phou village (No. 149).



Photo 31. Survey of eggplants in an upland rice field in Vong Som Phou village.



Photo 32. Fruits of eggplant collected in Tha Hin village (No. 200).