Collaborative Exploration of Solanaceae Vegetable Genetic Resources in Central and Mid-Western Cambodia in 2018

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Summary

The National Agriculture and Food Research Organization (NARO) and Cambodian Agricultural Research and Development Institute (CARDI) have collaborated since 2014 under the Plant Genetic Resources in Asia (PGRAsia) project to survey the vegetable genetic resources available in Cambodia. As part of this project, four field surveys of Solanaceae crops were conducted in November 2014, 2015, 2016, and 2017 in western, eastern, northern, and southern Cambodia, respectively. In November 2018, we conducted a fifth field survey in central and mid-western Cambodia, including the Kampong Cham, Kampong Thom, Preah Vihear, Kampong Chnang, Kamdal, Pursat, and Battambang Provinces. We collected a total of 75 accessions, including 64 chili pepper (15 Capsicum annuum and 49 Capsicum frutescens) and 11 eggplant (Solanum melongena) fruit samples, from farmers, a market, and a mini mart. After seeds were harvested from the collected fruits, the seeds were equally divided in two: half were conserved in the CARDI, and the other half were transferred to the Genetic Resource Center, NARO, by using the standard material transfer agreement.

KEY WORDS: Capsicum annuum, Capsicum frutescens, chili pepper, eggplant
Introduction

Many genetic resources for vegetables are available in Southeast Asia, such as Solanaceae crops (Yamamoto and Nawata 2005; Matsunaga et al. 2010); owing to their remarkable genetic diversity, they are considered valuable resources for breeding programs (Saito et al. 2006; Matsunaga et al. 2015). However, only a few worldwide chili pepper genetic resources from Cambodia are available (Matsunaga et al. 2015). Therefore, promoting the collection and exploration of genetic resources in this area is necessary. Recently, chili pepper (Capsicum spp.) landraces traditionally cultivated in this region have been replaced by high-quality and high-yielding varieties imported from neighboring countries (Sugita et al. 2017). The genetic diversity among the crops grown in this region has thus begun to decrease, indicating the need to preserve and ensure the diversity of traditional landraces.

In July 2014, the National Agriculture and Food Research Organization (NARO) in Japan and the Cambodian Agricultural Research and Development Institute (CARDI) established a Joint Research Agreement (JRA) under the Plant Genetic Resources in Asia project (PGRAsia project) in trust of the Ministry of Agriculture, Forestry and Fisheries of Japan to preserve and ensure the effective use of genetic resources. As a part of the JRA, four Solanaceae crop field surveys were completed in Cambodia. The first survey was conducted in November 2014 in western Cambodia and covered a route through to the south of Tonlé Sap Lake (Matsunaga et al. 2015). The second survey was conducted in November 2015 in eastern Cambodia and included the Mondulkiri and Ratanakiri highlands (Tanaka et al. 2016). The third survey was conducted in November 2016 in northern Cambodia and covered a route through to the north of Tonlé Sap Lake (Sugita et al. 2017). The fourth survey was conducted in November 2017 in southern Cambodia and covered a route through to the south of Phnom Penh capital (Matsunaga et al. 2018).

In 2018, NARO and CARDI again established the JRA under the PGRAsia project phase 2. As a part of the JRA, we conducted Solanaceae crop field survey in central and mid-western Cambodia in November 2018 as the fifth survey and collected chili pepper and eggplant samples. This report presents the results of the fifth survey.

Methods

A field survey was conducted in the central and mid-western region of Cambodia between November 7 and 15, 2018 (Table 1, Fig. 1). The survey trip started in Phnom Penh on November 7. We then explored the Kampong Cham, Kampong Thom, Preah Vihear, Kampong Chnang, Kamdal, Pursat, and Battambang Provinces. Survey activities included the collection of accessions (obtained from farmers’ houses, backyards, and fields; a market; and a mini mart), interviews, and plant observations. We used a car for transportation. We stopped at markets (Photos 1 and 2) and farmers’ houses and interviewed persons (Photos 3 and 4) regarding the local names, origins, cultivation, and utilization of chili pepper and eggplant accessions. During the survey, chili pepper and eggplant plants were observed in all provinces visited. We collected representative accessions to cover the diversity in the area. In farmers’ backyards and fields, we attempted to collect mature fruits from one plant. In markets, we attempted to collect mature fruits that seemed, based on their appearance, to be harvested from the same accession. After mature fruits were collected, we harvested the seeds from them within three days. The identification of the Capsicum species was based on a taxonomic key (Eshbaugh 2012). When a sample was collected, we further recorded the place name and location information (latitude, longitude, and altitude), which were determined using a global positioning system.
Results

Summary of samples collected

Seventy-five fruit samples were collected at the survey sites (44 farmers’ backyards; three from farmers’ fields; and one each farmers’ shop, market, and mini mart) in central and mid-western Cambodia. The samples consisted of 15 *C. annuum*, 49 *C. frutescens*, and 11 *Solanum melongena* (Tables 2 and 3). The detailed information for the accessions collected is shown in Table 3. The seeds were shared equally between NARO and CARDI.

Table 1. Itinerary followed during the 2018 survey in central and mid-western Cambodia

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Itinerary</th>
<th>Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-Nov</td>
<td>Tue</td>
<td>Chubu 00:30 (TG647) -- 05:10 Bangkok 07:40 (TG2586) -- 08:50 Phnom Penh Cambodian Agricultural Research and Development Institute (CARDI).</td>
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</tr>
<tr>
<td>7-Nov</td>
<td>Wed</td>
<td>Phnom Penh -- Kampong Cham -- east side of Mekong river -- island in Mekong river -- Kampong Cham</td>
<td>Kampong Cham</td>
</tr>
<tr>
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<td>Thu</td>
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<td>Kampong Thom</td>
</tr>
<tr>
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<td>Sat</td>
<td>Kampong Thom -- Udong -- south area of Udong -- Kampong Chnan</td>
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</tr>
<tr>
<td>11-Nov</td>
<td>Sun</td>
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</tr>
<tr>
<td>12-Nov</td>
<td>Mon</td>
<td>Monop Kampong Chnan -- Route 145 -- Pursat -- Phnum Kravanh -- Pramoay -- Pursat</td>
<td>Pursat</td>
</tr>
<tr>
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<td>Tue</td>
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<tr>
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<td>Pursat -- Route 5 -- Route 150 --Route 5 -- Battambang -- Route 154 -- Battambang -- Pursat</td>
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<tr>
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<td>Sat</td>
<td>Bangkok 00:05 (TG644) -- 7:30 Chubu</td>
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</table>

Fig. 1. The route of the fifth field survey in 2018 in central and mid-western Cambodia.
Daily record of the field survey

**November 7:** We left Phnom Penh and traveled toward Kampong Cham Province on Route 6A and 7. After arrived at Kampong Cham, we went to the west side of the Mekong River and collected one chili pepper fruit sample (No. 1). Subsequently, we went to the east side of the river and found several vegetable fields; however, most plants were young and had no fruits (Photo 5). This area received excessive rain until the end of September, and vegetable cultivation started in October. Hence, we stopped collecting samples from this area and moved to an island in the Mekong River. From this island, we collected one eggplant fruit sample (No. 2) and three chili pepper fruits samples (Nos. 3-5) from two neighboring farmers.

**November 8:** Before breakfast, we collected one chili pepper fruits sample (No. 6) decorated in front of mini mart (Photo 6). The owner of the mini mart said that it was derived from Thailand. We went to north on the road along the west side of the Mekong River. Along the road, we collected one chili pepper fruit sample (No. 7) from a farmer, one chili pepper fruit sample (No. 8) from another farmer, two chili pepper fruit samples (Nos. 9 and 10) from a third farmer, one eggplant fruit sample (No. 11) from a fourth farmer, two chili pepper fruit samples (Nos. 12 and 13) from a fifth farmer, and one eggplant fruit sample (No. 14) from a sixth farmer.

Next, we moved to Kampong Thnor on Routes 7, 71, and 6. First, we visited a market (Bongkok market). In this market, we found *C. annuum* and eggplants, but not *C. frutescens*. We did not collect the fruits because they appeared to be hybrid accessions. Subsequently, we surveyed north area of Route 6. A few farmers cultivated chili peppers in this area; we collected two chili pepper fruit samples (Nos. 15 and 16) from the backyards of two farmers.

**November 9:** We went to Sambour area located in northeast Kampong Thom. In this area, we collected two chili pepper fruit samples (Nos. 17 and 18) from a farmer, one chili pepper fruit sample (No. 19) from a farmer’s shop (Photo 7), one chili pepper and eggplant fruit samples (Nos. 20 and 21) from another farmer, and one chili pepper fruit sample (No. 22) derived from Thailand from a third farmer. Next, we visited Taouk market. In this market, we found several kinds of *C. annuum* and eggplants, but not *C. frutescens*. Subsequently, we moved north. We collected one chili pepper fruit sample (No. 23) from a farmer and two chili pepper fruit samples (Nos. 24 and 25) from another farmer. Sample No. 24 was an ornamental accession (Photo 8).

<table>
<thead>
<tr>
<th>Collection site (province)</th>
<th><em>C. annuum</em></th>
<th><em>C. frutescens</em></th>
<th><em>S. melongena</em></th>
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<td>Preah Vihear</td>
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<td>0</td>
<td>4</td>
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<td>Kandal</td>
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<td>3</td>
<td>14</td>
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<tr>
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<td>15</td>
<td>2</td>
<td>19</td>
</tr>
<tr>
<td>Battambang</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>49</strong></td>
<td><strong>11</strong></td>
<td><strong>75</strong></td>
</tr>
</tbody>
</table>

Table 2. Samples collected during the 2018 survey in central and mid-western Cambodia
After lunch, we moved northward and surveyed an area in the southern region of Preah Vihear Province. We collected two chili pepper fruit samples (No. 26 and 27) from a farmer, one chili pepper fruit sample (No. 28) from another farmer, and one chili pepper fruit sample (No. 29) from a third farmer in this area.

**November 10:** First, we visited Kampong Thom market. We found both *C. annuum* and *C. frutescens*. According to interviews with farmers, most *C. annuum* were derived from neighboring countries, and most *C. frutescens* were harvested in domestic areas.

Next, we moved to Udong located in Kandal Province on Routes 6, 7, 61, and 5. After arriving at Udong, we first visited Udong market. In this market, we found various kinds of *C. annuum*, but farmers informed us that almost all of them were derived from neighboring countries. Conversely, we found *C. frutescens* that were harvested in Kampong Chnang Province.

We moved southward from Udong. We collected one chili pepper fruit sample (No. 30) from a farmer and two chili pepper fruit samples (Nos. 31 and 32) from another farmer. We moved further and collected one chili pepper fruit sample (No. 33) from a farmer and one chili pepper and eggplant fruit samples (Nos. 34 and 35) from another farmer.

**November 11:** We visited a mango field (Photo 9) located southward of Kampong Chnang along Route 53. In this field, some workers harvested young mango fruits. We found some *C. frutescens* plants that had been growing for more than five years and some *C. annuum* plants growing for one to two years. We collected two chili pepper fruit samples (Nos. 36 and 37) from this field. We went further southward and collected one chili pepper fruit sample (No. 38). In addition, we moved to southeast and collected one chili pepper and eggplant fruit samples (Nos. 39 and 40) from a farmer who mainly cultivated rice. We also collected one chili pepper and eggplant samples (Nos. 41 and 42) from a neighboring farmer.

While returning to Kampong Chnang, we visited Romeas market. In this market, we found some *C. annuum* fruits, but no *C. frutescens* fruits. After arriving at Kampong Chnang, we went southward on the road of Route 5 and we turned west at Ou’Ruessei village. We collected three chili pepper fruit samples (Nos. 43–45) and one eggplant fruit sample (No. 46) from four different farmers.

**November 12:** We surveyed along the Route 145 and collected two chili pepper fruit samples (Nos. 47 and 48) from a farmer and one chili pepper sample (No. 49) from another farmer. We went to Pursat on the Routes 145 and 5. After arriving at Pursat, we traveled to Pramaoy. On the way, we collected one chili pepper fruit sample (No. 50) from a farmer. After arriving at Pramaoy, we surveyed along the road toward Thailand. Along the road, we collected two eggplant fruit samples (Nos. 51 and 52) and two chili pepper fruit samples (Nos. 53 and 54) from a farmer.

**November 13:** We visit Pursat market. In this market, we found some kinds of *C. annuum* fruits and *C. frutescens* fruits and collected two chili pepper fruit samples (Nos. 55 and 56). We moved toward Tonlé Sap Lake. On the way, we collected four chili pepper fruit sample (Nos. 57–60) from different farmers.

We went eastward on the Route 5 and turned to Route 55. We collected two chili pepper samples (Nos. 61 and 62) from a farmer near a railway crossing. Sample No. 61 was an ornamental accession (Photo 10).
imported from Thailand. Subsequently, we surveyed along Route 146. On the way, we collected two chili pepper fruit samples (Nos. 63 and 64) from a farmer, one chili pepper fruit sample (No. 65) from another farmer, and three chili pepper samples (Nos. 66–68) from a third farmer.

**November 14:** We moved to Battambang on the Route 5. On the way, we turned to Route 150. Along the road, we collected one chili pepper fruit sample (No. 69) from a farmer, one fruit sample each of chili pepper and eggplant (Nos. 70 and 71) from a different farmer, and one chili pepper fruit sample (No. 72) from a third farmer who lived next door to the second farmer. Among them, No. 72 seemed to be a progeny of a hybrid cultivar. After arriving at Battambang, we went to the road on Route 154. Along the way, we collected three chili pepper samples (Nos. 73–75) from a farmer. Sample Nos. 73 and 74 were cultivated in his field and No. 75 was grown in his backyard. Among them, No. 75 was an ornamental chili pepper accession (Photo 11) obtained from Thailand.

**November 15:** We traveled back to Phnom Penh.

**November 16:** We reported the results of our field survey to CARDI and equally divided the collected dried seeds. Half were conserved at CARDI, and the other half were transferred to the Genetic Resource Center, NARO, by using the standard material transfer agreement (SMTA).

**Discussion**

We conducted the fifth collaborative exploration for Solanaceae vegetables genetic resources in Cambodia. In the present survey, 64 chili pepper and 11 eggplant accessions were collected from central and mid-western Cambodia (Tables 2 and 3). The chili pepper accessions included two species: 15 *C. annuum* and 49 *C. frutescens*. In the previous four explorations, 225 *Capsicum* accessions were collected, including 86 *C. annuum* and 139 *C. frutescens* (Matsunaga et al. 2015, 2018; Tanaka et al. 2016; Sugita et al. 2017), but none of the other domesticated *Capsicum* species, for example, *Capsicum chinense*, *Capsicum baccatum*, and *Capsicum pubescens*, were collected. These results suggest that *C. annuum* and *C. frutescens* are the major cultivated species in Cambodia, and the other *Capsicum* species are not widely used. This has already reported by Matsunaga et al. (2018), and we also found chili pepper of *C. annuum* and *C. frutescens* in the fifth exploration.

The 15 accessions identified as *C. annuum* included 10 accessions of “Mates Dai Neang” (Photo 12); two of “Mates Laev Aav” (Photos 6 and 11); one each of “Mates Toeu” (Photo 8), “Mates Phlaok” (Photo 13), and “Mates Phka” (Photo 10). “Mates” means *Capsicum* pepper, “Dai Neang” means “ring finger,” “Laev Aav” means “button for shirt,” “Phlaok” means “scrotum,” “Toeu” means “dwarf,” and “Phka” means “flower” in Khmer. Among *C. annuum* accessions, “Mates Dai Neang” was the most observed in the present survey, same as that in the previous surveys.

“Mates Laev Aav,” “Mates Toeu,” and “Mates Phka” are ornamental species. In the surveys conducted in 2014, 2015, and 2016, we could not find any ornamental *Capsicum* pepper (Matsunaga et al. 2015; Tanaka et al. 2016; Sugita et al. 2017), however, in the last and the present surveys, we found some ornamental *Capsicum* accessions (Matsunaga et al. 2018), suggesting that the cultivation of ornamental chili pepper is increasing in Cambodia.
Forty-nine accessions identified as *C. frutescens* included 28 accessions of “Mates Ach Sath” (Photo 14), 18 of “Mates Sor” (Photo 15), two of “Mates Chongol Miek,” and one of “Mates Kuiteav.” “Ach Sath” means “bird dropping,” “Sor” means “white or light color,” “Chongol Miek” means “point the sky,” and “Kuiteav” means “noodle” in Khmer. “Mates Ach Sath” and “Mates Sor” were the most observed *C. frutescens* in the present survey, same as in the previous surveys.

In the previous four surveys, we observed *C. frutescens* in most markets that we visited. However, in this survey, we could not find *C. frutescens* in several markets. This could be because, recently, the price of exported fruits of *C. frutescens* has become higher than that of the domestic ones, in Cambodia, and hence, farmers might prefer to export their fruits instead of selling them in domestic markets.

We could also collect 11 eggplant accessions including eight accessions of “Trop Sruoy” (Photo 16), two of “Trop Veng” (Photo 17), and one of “Trop Khar” (Photo 18). “Trop” means “eggplant,” “Sruoy” means “brittle,” “Veng” means “long,” and “Khar” means “revolting” in Khmer. “Trop Sruoy” was the most observed in the present survey, same as in the previous surveys.

We could collect 75 accessions in the present survey. The traits of these accessions will be evaluated in Cambodia and Japan, and valuable breeding materials may be found in these genetic resources.

**Acknowledgments**

This work was supported by a grant (PGRAsia Project phase 2) from the Ministry of Agriculture, Forestry, and Fisheries of Japan.

**References**


2018年カンボジア中央部および中西部における
ナス科野菜遺伝資源の共同探索

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和文摘要
農業・食品産業技術総合研究機構（NARO）とカンボジア農業開発研究所（CARDI）は、カンボジア国内における野菜類を中心とした遺伝資源を探索するため、PGRAsia（Plant Genetic Resources in Asia）プロジェクトのもと、2014年から共同研究を実施している。本プロジェクトの一環として、2014年、2015年、2016年および2017年の11月に、それぞれカンボジアの西部、東部、北部および南部地域において、4回のナス科作物の探索を実施した。2018年11月に我々は、カンボジア中央部および中西部地域のKampong Cham, Kampong Thom, Preah Vihear, Kampong Chnang, Kamdal, PursatおよびBattambang州において、5回目の探索を実施した。本探索において、15点のCapsicum annuum, 49点のCapsicum frutescensおよび11点のSolanum melongenaからなる合計75点のトウガラシおよびナスを農家、市場およびミニマートで収集した。収集した種子は2等分し、半分はCARDIで保存し、残りの半分はSMTA（Standard Material Transfer Agreement）によりNAROのジーンバンクに移送した。
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<th>Passport No.</th>
<th>JP No.</th>
<th>JP Name</th>
<th>Date</th>
<th>Genus &amp; Species</th>
<th>Province/State</th>
<th>District</th>
<th>Commune</th>
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<th>North latitude / East longitude</th>
<th>Altitude (m)</th>
<th>Source</th>
<th>Status</th>
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<td>Mates Sor</td>
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<td>ornamental, from Thailand</td>
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</table>
Photo 1. Typical vegetable market. This is a part of Kampong Thom market.

Photo 2. Roadside vegetable market. This is a part of Pursat market.

Photo 3. Interviewing a farmer in Kampong Thom Province.

Photo 4. Interviewing a farmer in Pursat market.

Photo 5. Chili pepper (Capsicum sp.) field in the east side of the Mekong River in Kampong Cham Province.

Photo 6. Ornamental Capsicum plants, “Mates Laev Aav” (No. 6, Capsicum annuum), decorated in front of a mini mart in Kampong Cham Province.
Photo 7. A farmer’s shop in Kampong Thom Province.


Photo 9. A mango (*Mangifera indica*) field in Kampong Chnang Province.

Photo 10. Ornamental *Capsicum* plants, “Mates Phka” (No. 61, *C. annuum*), in Pursat Province.


Photo 12. Fruits of “Mates Dai Neang” (No. 22, *Capsicum frutescens*) in Kampong Thom Province.
Photo 13. A plant of “Mates Phlaok” (No. 34: left, C. annuum) in Kandal Province.

Photo 14. Fruits of “Mates Ach Sath” (No. 70, C. frutescens) in Battambang Province.

Photo 15. Fruits of “Mates Sor” (No. 65, C. frutescens) in Pursat Province.

