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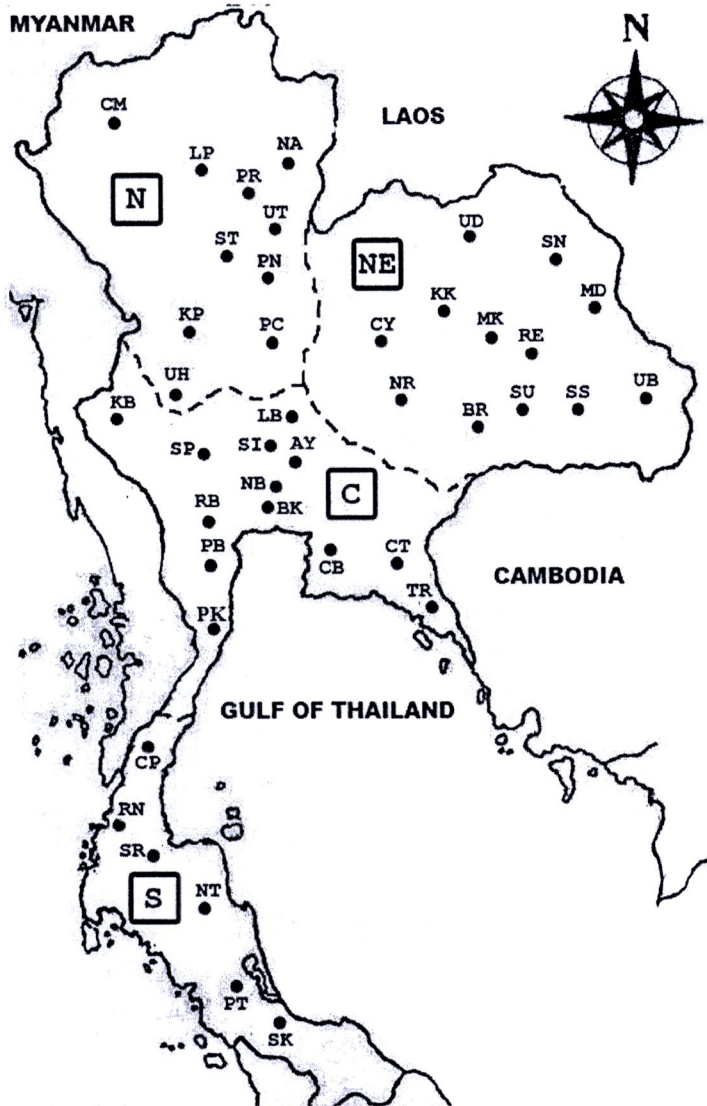
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APPENDICES

APPENDIX A

Sample collections

Collection sites of stingless bees used in this study



Abbreviations corresponding to table of sample locations; N = North, NE = Northeast, C = Central region and S = Peninsular Thailand

Sample locations and map abbreviation of stingless bee nests used in this study

Location	Region	Abbreviation
Ayutthaya	Central	AY
Bangkok	Central	BK
Chonburi	Central	CB
Chanthaburi	Central	CT
Kanchanaburi	Central	KB
Lopburi	Central	LB
Nonthaburi	Central	NB
Phetchaburi	Central	PB
Prachuap Khiri Khan	Central	PK
Ratchaburi	Central	RB
Singburi	Central	SI
Suphanburi	Central	SP
Trat	Central	TR
Chiang Mai	North	CM
Kamphaeng Phet	North	KP
Lampang	North	LP
Nan	North	NA
Phichit	North	PC
Phitsanulok	North	PN
Phrae	North	PR
Sukho Thai	North	ST
Uthai Thani	North	UH
Uttaradit	North	UT
Buriram	Northeast	BR
Chaiyaphum	Northeast	CY
Khon Kaen	Northeast	KK
Maha Sarakham	Northeast	MK
Mukdahan	Northeast	MD
Nakhon Ratchasima	Northeast	NR
Roi Et	Northeast	RE
Sakhon Nakhon	Northeast	SN
Sisaket	Northeast	SS
Surin	Northeast	SU
Ubon Rachathani	Northeast	UB
Udon Thani	Northeast	UD
Chumphon	Peninsular	CP
Nakhon Si Thammarat	Peninsular	NT
Phatthalung	Peninsular	PT
Ranong	Peninsular	RN
Songkhla	Peninsular	SK
Surat Thani	Peninsular	SR

Total of 159 *Tetragonilla collina* were used in this study

Code	Population	Province	Locality
COL 1C	Central	Ratchaburi	Muang district
COL 3C	Central	Kanchanaburi	Sai Yok district
COL 4C	Central	Kanchanaburi	Sai Yok district
COL 5C	Central	Kanchanaburi	Sai Yok district
COL 6C	Central	Kanchanaburi	Sai Yok district
COL 7C	Central	Kanchanaburi	Sai Yok district
COL 8C	Central	Kanchanaburi	Sai Yok district
COL 9C	Central	Kanchanaburi	Sai Yok district
COL 10C	Central	Kanchanaburi	Thong Pha Phum district
COL 11C	Central	Kanchanaburi	Thong Pha Phum district
COL 12C	Central	Kanchanaburi	Thong Pha Phum district
COL 13C	Central	Kanchanaburi	Thong Pha Phum district
COL 14C	Central	Kanchanaburi	Thong Pha Phum district
COL 15C	Central	Kanchanaburi	Thong Pha Phum district
COL 16C	Central	Kanchanaburi	Thong Pha Phum district
COL 17C	Central	Kanchanaburi	Thong Pha Phum district
COL 18C	Central	Kanchanaburi	Thong Pha Phum district
COL 19C	Central	Kanchanaburi	Thong Pha Phum district
COL 20C	Central	Kanchanaburi	Thong Pha Phum district
COL 21C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 22C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 23C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 24C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 25C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 26C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 27C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 28C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 29C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 30C	Central	Prechuap Khiri Khan	Bang Saphan Noi district
COL 31C	Central	Prechuap Khiri Khan	Bang Saphan district
COL 32C	Central	Prechuap Khiri Khan	Bang Saphan district
COL 33C	Central	Chanthaburi	Makham district
COL 34C	Central	Chanthaburi	Makham district
COL 2N	North	Nan	Pua district
COL 3N	North	Nan	Pua district
COL 5N	North	Phrae	Muang district
COL 6N	North	Phrae	Muang district
COL 7N	North	Phrae	Muang district
COL 8N	North	Phrae	Muang district

Code	Population	Province	Locality
COL 9N	North	Uttaradit	Laplae district
COL 10N	North	Uttaradit	Laplae district
COL 11N	North	Uthai Thani	Nong Chang district,
COL 12N	North	Uthai Thani	Nong Chang district,
COL 14N	North	Uthai Thani	Nong Chang district,
COL 17N	North	Uthai Thani	Lan Sak district
COL 19N	North	Uthai Thani	Lan Sak district
COL 21N	North	Uthai Thani	Lan Sak district
COL 23N	North	Uthai Thani	Lan Sak district
COL 24N	North	Uthai Thani	Lan Sak district
COL 26N	North	Kamphaeng Phet	Muang district
COL 27N	North	Kamphaeng Phet	Muang district
COL 28N	North	Kamphaeng Phet	Muang district
COL 30N	North	Chiang Mai	San Sai district
COL 31N	North	Phichit	Muang district
COL 32N	North	Phichit	Muang district
COL 33N	North	Phichit	Pho Thale district
COL 34N	North	Phichit	Pho Thale district
COL 35N	North	Phichit	Pho Thale district
COL 1NE	Northeast	Khon Kaen	Nong Song Hong district
COL 2NE	Northeast	Khon Kaen	Phra Yuen district
COL 3NE	Northeast	Khon Kaen	Phra Yuen district
COL 6NE	Northeast	Khon Kaen	Phra Yuen district
COL 7NE	Northeast	Khon Kaen	Phra Yuen district
COL 9NE	Northeast	Khon Kaen	Phra Yuen district
COL 10NE	Northeast	Khon Kaen	Phra Yuen district
COL 12NE	Northeast	Khon Kaen	Phra Yuen district
COL 13NE	Northeast	Maha Sarakham	Wapi Pathum district
COL 14NE	Northeast	Maha Sarakham	Wapi Pathum district
COL 15NE	Northeast	Maha Sarakham	Wapi Pathum district
COL 16NE	Northeast	Maha Sarakham	Wapi Pathum district
COL 17NE	Northeast	Roi Et	Muang district
COL 19NE	Northeast	Roi Et	Chaturakphak Phiman district
COL 20NE	Northeast	Sisaket	Kanthararom district
COL 22NE	Northeast	Sisaket	Kanthararom district
COL 26NE	Northeast	Sisaket	Kanthararom district
COL 29NE	Northeast	Sisaket	Kanthararom district
COL 30NE	Northeast	Sisaket	Kanthararom district
COL 31NE	Northeast	Sisaket	Kanthararom district
COL 35NE	Northeast	Surin	Tha Tum district
COL 39NE	Northeast	Surin	Tha Tum district

Code	Population	Province	Locality
COL 43NE	Northeast	Buriram	Nang Rong district
COL 44NE	Northeast	Buriram	Nang Rong district
COL 46NE	Northeast	Buriram	Nang Rong district
COL 48NE	Northeast	Buriram	Nang Rong district
COL 49NE	Northeast	Buriram	Nang Rong district
COL 50NE	Northeast	Sakhon Nakhon	Phanna Nikhom district
COL 51NE	Northeast	Sakhon Nakhon	Phanna Nikhom district
COL 52NE	Northeast	Sakhon Nakhon	Phanna Nikhom district
COL 55NE	Northeast	Sakhon Nakhon	Phanna Nikhom district
COL 56NE	Northeast	Chaiyaphum	Phu Khiao district
COL 57NE	Northeast	Chaiyaphum	Kaeng Khro district
COL 58NE	Northeast	Chaiyaphum	Kaeng Khro district
COL 59NE	Northeast	Udon Thani	Kut Chap district
COL 61NE	Northeast	Udon Thani	Kut Chap district
COL 63NE	Northeast	Ubon Rachathani	Phibun Mangsahan district
COL 64NE	Northeast	Ubon Rachathani	Phibun Mangsahan district
COL 65NE	Northeast	Ubon Rachathani	Phibun Mangsahan district
COL 66NE	Northeast	Ubon Rachathani	Phibun Mangsahan district
COL 69NE	Northeast	Mukdahan	Loeng Nok Tha district
COL 70NE	Northeast	Ubon Rachathani	Sirinthon district
COL 71NE	Northeast	Khon Kaen	Muang district
COL 2S	Peninsular	Chumphon	Sawi district
COL 3S	Peninsular	Chumphon	Sawi district
COL 5S	Peninsular	Surat Thani	Kanchanadit district
COL 6S	Peninsular	Surat Thani	Chaiya district
COL 7S	Peninsular	Surat Thani	Chaiya district
COL 11S	Peninsular	Surat Thani	Tha Chang district
COL 14S	Peninsular	Ranong	Muang district
COL 15S	Peninsular	Ranong	Muang district
COL 16S	Peninsular	Ranong	Muang district
COL 17S	Peninsular	Ranong	Muang district
COL 18S	Peninsular	Chumphon	Muang district
COL 19S	Peninsular	Chumphon	Muang district
COL 20S	Peninsular	Chumphon	Muang district
COL 21S	Peninsular	Chumphon	Lang Suan district
COL 22S	Peninsular	Chumphon	Lang Suan district
COL 23S	Peninsular	Chumphon	Lang Suan district
COL 24S	Peninsular	Chumphon	Lang Suan district
COL 25S	Peninsular	Chumphon	Lang Suan district
COL 26S	Peninsular	Chumphon	Lang Suan district
COL 27S	Peninsular	Chumphon	Thung Tako district

Code	Population	Province	Locality
COL 28S	Peninsular	Chumphon	Sawi district
COL 29S	Peninsular	Chumphon	Sawi district
COL 30S	Peninsular	Chumphon	Sawi district
COL 31S	Peninsular	Chumphon	Sawi district
COL 32S	Peninsular	Chumphon	Muang district
COL 33S	Peninsular	Chumphon	Muang district
COL 34S	Peninsular	Chumphon	Muang district
COL 35S	Peninsular	Chumphon	Phato district
COL 36S	Peninsular	Ranong	Muang district
COL 37S	Peninsular	Ranong	Muang district
COL 38S	Peninsular	Ranong	Kra Buri district
COL 39S	Peninsular	Chumphon	Muang district
COL 40S	Peninsular	Chumphon	Muang district
COL 41S	Peninsular	Chumphon	Tha Sae district
COL 42S	Peninsular	Surat Thani	Chaiya district
COL 43S	Peninsular	Surat Thani	Chaiya district
COL 44S	Peninsular	Surat Thani	Chaiya district
COL 45S	Peninsular	Surat Thani	Kanchanadit district
COL 47S	Peninsular	Surat Thani	Phun Phin district
COL 48S	Peninsular	Surat Thani	Phun Phin district
COL 49S	Peninsular	Surat Thani	Khiri Rat Nikhom district
COL 50S	Peninsular	Surat Thani	Khiri Rat Nikhom district
COL 52S	Peninsular	Surat Thani	Vibhavadi district
COL 53S	Peninsular	Surat Thani	Vibhavadi district
COL 54S	Peninsular	Surat Thani	Vibhavadi district
COL 55S	Peninsular	Surat Thani	Vibhavadi district
COL 56S	Peninsular	Surat Thani	Vibhavadi district
COL 57S	Peninsular	Surat Thani	Vibhavadi district
COL 58S	Peninsular	Surat Thani	Tha Chana district
COL 59S	Peninsular	Nakhon Si Thammarat	Sichon district
COL 60S	Peninsular	Nakhon Si Thammarat	Sichon district
COL 61S	Peninsular	Nakhon Si Thammarat	Muang district
COL 62S	Peninsular	Nakhon Si Thammarat	Muang district
COL 63S	Peninsular	Nakhon Si Thammarat	Muang district
COL 64S	Peninsular	Nakhon Si Thammarat	Thung Song district
COL 66S	Peninsular	Nakhon Si Thammarat	Thung Song district
COL 67S	Peninsular	Nakhon Si Thammarat	Thung Song district
COL 68S	Peninsular	Nakhon Si Thammarat	Thung Yai district

Total of 106 other stingless bees were used in this study

Code	Species	Population	Province	Locality
API05C	<i>Tetrigona apicalis</i>	Central	Ratchaburi	Chom Bueng district
API06C	<i>Tetrigona apicalis</i>	Central	Ratchaburi	Chom Bueng district
API07C	<i>Tetrigona apicalis</i>	Central	Ratchaburi	Chom Bueng district
API08C	<i>Tetrigona apicalis</i>	Central	Ratchaburi	Suan Phueng district
API02N	<i>Tetrigona apicalis</i>	North	Chiang Mai	Hang Dong district
API03N	<i>Tetrigona apicalis</i>	North	Chiang Mai	Muang district
API15N	<i>Tetrigona apicalis</i>	North	Kamphaeng Phet	Muang district
API16N	<i>Tetrigona apicalis</i>	North	Kamphaeng Phet	Muang district
API01S	<i>Tetrigona apicalis</i>	Peninsular	Nakhon Si Thammarat	Chang Klang district
API10S	<i>Tetrigona apicalis</i>	Peninsular	Chumphon	Sawi district
API12S	<i>Tetrigona apicalis</i>	Peninsular	Chumphon	Muang district
API13S	<i>Tetrigona apicalis</i>	Peninsular	Chumphon	Muang district
CAN01S	<i>Lophotrigona canifrons</i>	Peninsular	Surat Thani	Chaiya district
DOI14N	<i>Lepidatrigona doipaensis</i>	North	Chiang Mai	Mae Rim district
FIM01N	<i>Homotrigona fimbriata</i>	North	Chiang Mai	Muang district
FIM02NE	<i>Homotrigona fimbriata</i>	Northeast	Sisaket	Muang district
FIM04NE	<i>Homotrigona fimbriata</i>	Northeast	Ubon Rachathani	Phibun Mangsahan district
FUS02C	<i>Tetragonula fuscobalteata</i>	Central	Kanchanaburi	Sai Yok district
FUS05C	<i>Tetragonula fuscobalteata</i>	Central	Kanchanaburi	Sai Yok district
FUS08C	<i>Tetragonula fuscobalteata</i>	Central	Kanchanaburi	Sai Yok district
FUS01N	<i>Tetragonula fuscobalteata</i>	North	Uttaradit	Laplae district
FUS11N	<i>Tetragonula fuscobalteata</i>	North	Chiang Mai	Mae Rim district
FUS15N	<i>Tetragonula fuscobalteata</i>	North	Phrae	Wang Chin district
ITM01S	<i>Heterotrigona itama</i>	Peninsular	Songkhla	Hat Yai district
ITM03S	<i>Heterotrigona itama</i>	Peninsular	Surat Thani	Singhanakhon district
ITM04S	<i>Heterotrigona itama</i>	Peninsular	Surat Thani	Chaiya district
ITM05S	<i>Heterotrigona itama</i>	Peninsular	Surat Thani	Chaiya district
L003N	<i>Tetragonula laeviceps</i>	North	Phitsanulok	Muang district
L004N	<i>Tetragonula laeviceps</i>	North	Phitsanulok	Muang district
L006N	<i>Tetragonula laeviceps</i>	North	Phichit	Muang district
L007N	<i>Tetragonula laeviceps</i>	North	Phichit	Muang district
L008N	<i>Tetragonula laeviceps</i>	North	Phichit	Muang district
L019N	<i>Tetragonula laeviceps</i>	North	Phrae	Wang Chin district
MELA01N	<i>Tetrigona melanoleuca</i>	North	Chiang Mai	Muang district
MEL01S	<i>Tetragonula melina</i>	Peninsular	Surat Thani	Kanchanadit district
MIN02N	<i>Tetragonula minor</i>	North	Nan	Pua district
MIN04N	<i>Tetragonula minor</i>	North	Uttaradit	Laplae district
MIN07N	<i>Tetragonula minor</i>	North	Uttaradit	Laplae district
MIN08N	<i>Tetragonula minor</i>	North	Uttaradit	Laplae district
MIN10NE	<i>Tetragonula minor</i>	Northeast	Ubon Rachathani	Muang district
MIN11NE	<i>Tetragonula minor</i>	Northeast	Ubon Rachathani	Muang district

Code	Species	Population	Province	Locality
MIN14NE	<i>Tetragonula minor</i>	Northeast	Sisaket	Huai Thap Than district
MIN01S	<i>Tetragonula minor</i>	Peninsular	Songkhla	Muang district
PAG003E	<i>Tetragonula pagdeni</i>	Central	Trat	Khao Saming district
PAG004E	<i>Tetragonula pagdeni</i>	Central	Trat	Bo Rai district
PAG009E	<i>Tetragonula pagdeni</i>	Central	Chanthaburi	Khlung district
PAG010E	<i>Tetragonula pagdeni</i>	Central	Chanthaburi	Khlung district
PAG012E	<i>Tetragonula pagdeni</i>	Central	Chanthaburi	Makham district
PAG015E	<i>Tetragonula pagdeni</i>	Central	Chonburi	Muang district
PAG016E	<i>Tetragonula pagdeni</i>	Central	Chonburi	Sriracha district
PAG001C	<i>Tetragonula pagdeni</i>	Central	Nonthaburi	Pak Kret district
PAG003C	<i>Tetragonula pagdeni</i>	Central	Nonthaburi	Pak Kret district
PAG005C	<i>Tetragonula pagdeni</i>	Central	Lopburi	Muang district
PAG007C	<i>Tetragonula pagdeni</i>	Central	Lopburi	Muang district
PAG010C	<i>Tetragonula pagdeni</i>	Central	Suphanburi	Muang district
PAG013C	<i>Tetragonula pagdeni</i>	Central	Singburi	Muang district
PAG014C	<i>Tetragonula pagdeni</i>	Central	Singburi	Muang district
PAG015C	<i>Tetragonula pagdeni</i>	Central	Nakhon Nayok	Banna district
PAG016C	<i>Tetragonula pagdeni</i>	Central	Bangkok	Pathumwan district
PAG017C	<i>Tetragonula pagdeni</i>	Central	Bangkok	Pathumwan district
PAG022C	<i>Tetragonula pagdeni</i>	Central	Bangkok	Chatuchak district
PAG023C	<i>Tetragonula pagdeni</i>	Central	Bangkok	Chatuchak district
PAG025C	<i>Tetragonula pagdeni</i>	Central	Phetchaburi	Banlad district
PAG026C	<i>Tetragonula pagdeni</i>	Central	Phetchaburi	Banlad district
PAG027C	<i>Tetragonula pagdeni</i>	Central	Phetchaburi	Banlad district
PAG029C	<i>Tetragonula pagdeni</i>	Central	Prachuap Khiri Khan	Muang district
PAG030C	<i>Tetragonula pagdeni</i>	Central	Prachuap Khiri Khan	Muang district
PAG032C	<i>Tetragonula pagdeni</i>	Central	Prachuap Khiri Khan	Kui Buri district
PAG038C	<i>Tetragonula pagdeni</i>	Central	Prachuap Khiri Khan	Sila Loi district
PAG049C	<i>Tetragonula pagdeni</i>	Central	Ayutthaya	Muang district
PAG053C	<i>Tetragonula pagdeni</i>	Central	Kanchanaburi	Sangklaburi district
PAG056C	<i>Tetragonula pagdeni</i>	Central	Kanchanaburi	Sai Yok district
PAG057C	<i>Tetragonula pagdeni</i>	Central	Kanchanaburi	Sai Yok district
PAG059C	<i>Tetragonula pagdeni</i>	Central	Kanchanaburi	Muang district
PAG069C	<i>Tetragonula pagdeni</i>	Central	Prachuap Khiri Khan	Bang Saphan district
PAG01N	<i>Tetragonula pagdeni</i>	North	Chiang Mai	Hang Dong district
PAG02N	<i>Tetragonula pagdeni</i>	North	Chiang Mai	Hang Dong district
PAG03N	<i>Tetragonula pagdeni</i>	North	Chiang Mai	Hang Dong district
PAG04N	<i>Tetragonula pagdeni</i>	North	Chiang Mai	San Sai district
PAG024N	<i>Tetragonula pagdeni</i>	North	Nan	Muang district
PAG027N	<i>Tetragonula pagdeni</i>	North	Sukho Thai	Muang district
PAG028N	<i>Tetragonula pagdeni</i>	North	Sukho Thai	Muang district
PAG031N	<i>Tetragonula pagdeni</i>	North	Sukho Thai	Sri Sum Rong district
PAG002NE	<i>Tetragonula pagdeni</i>	Northeast	Ubon Rachathani	Muang district

Code	Species	Population	Province	Locality
PAG014NE	<i>Tetragonula pagdeni</i>	Northeast	Surin	Kra Pho district
PAG019NE	<i>Tetragonula pagdeni</i>	Northeast	Khon Kaen	Nong Wag district
PAG023NE	<i>Tetragonula pagdeni</i>	Northeast	Roi Et	Chaturakphak Phiman district
PAG026NE	<i>Tetragonula pagdeni</i>	Northeast	Surin	Kra Pho district
PAG028S	<i>Tetragonula pagdeni</i>	Peninsular	Chumphon	Muang district
PAG034S	<i>Tetragonula pagdeni</i>	Peninsular	Chumphon	Tha Sae district
PAG035S	<i>Tetragonula pagdeni</i>	Peninsular	Chumphon	Muang district
PAG039S	<i>Tetragonula pagdeni</i>	Peninsular	Surat Thani	Muang district
PAG077S	<i>Tetragonula pagdeni</i>	Peninsular	Surat Thani	Tha Chang district
PAG092S	<i>Tetragonula pagdeni</i>	Peninsular	Chumphon	Thung Tako district
TER01N	<i>Lepidatrigona terminata</i>	North	Uttaradit	Laplae district
TER09C	<i>Lepidatrigona terminata</i>	Central	Ratchaburi	Chom Bueng district
TER11N	<i>Lepidatrigona terminata</i>	North	Lampang	Some Ngam district
TER13N	<i>Lepidatrigona terminata</i>	North	Lampang	Some Ngam district
TER02NE	<i>Lepidatrigona terminata</i>	Northeast	Roi Et	Chaturakphak Phiman district
TER04NE	<i>Lepidatrigona terminata</i>	Northeast	Roi Et	Chaturakphak Phiman district
TER06NE	<i>Lepidatrigona terminata</i>	Northeast	Ubon Rachathani	Muang district
THO04C	<i>Geniotrigona thoracica</i>	Central	Ratchaburi	Muang district
THO01S	<i>Geniotrigona thoracica</i>	Peninsular	Songkhla	Hat Yai district
THO02S	<i>Geniotrigona thoracica</i>	Peninsular	Surat Thani	Chaiya district
Lfur02NE	<i>Lisotrigona furva</i>	Northeast	Nakhon Ratchasima	Chaloem Phra Kiat district
Lfur03C	<i>Lisotrigona furva</i>	Central	Ratchaburi	Suan Phueng district

APPENDIX B

TE-AFLP and SSCP Haplotypes

Forty- seven TE-AFLP patterns for the primer pair *Xba*I-CC/*Bam*HI-C

Sample	Population	Haplotype Code	Haplotype
COL 1C	Central	29	0110110101h
COL 3C	Central	9	0010010100h
COL 5C	Central	44	1110110001h
COL 6C	Central	40	1110010001h
COL 8C	Central	45	1110110101h
COL 10C	Central	4	0000010001h
COL 13C	Central	22	0110010001h
COL 14C	Central	27	0110110001h
COL 16C	Central	40	1110010001h
COL 20C	Central	35	1010010001h
COL 21C	Central	9	0010010100h
COL 24C	Central	7	0010000001h
COL 26C	Central	39	1110000001h
COL 27C	Central	35	1010010001h
COL 28C	Central	3	0000010000h
COL 30C	Central	34	1010010000h
COL 31C	Central	33	1000010101h
COL 32C	Central	38	1100010101h
COL 33C	Central	20	0110000010h
COL 34C	Central	16	0100000100h
COL 2N	North	43	1110100000h
COL 3N	North	24	0110100000h
COL 5N	North	24	0110100000h
COL 8N	North	47	1111100010h
COL 9N	North	22	0110010001h
COL 10N	North	46	1111100000h
COL 11N	North	27	0110110001h
COL 12N	North	26	0110100100h
COL 14N	North	24	0110100000h
COL 23N	North	30	0110110111h
COL 24N	North	17	0100010001h
COL 26N	North	12	0010100000h
COL 27N	North	31	0111100000h
COL 30N	North	15	0010110001h
COL 31N	North	21	0110000100h
COL 32N	North	21	0110000100h

Sample	Population	Haplotype Code	Haplotype
COL 33N	North	26	0110100100h
COL 34N	North	21	0110000100h
COL 1NE	Northeast	25	0110100010h
COL 2NE	Northeast	13	0010100010h
COL 10NE	Northeast	22	0110010001h
COL 13NE	Northeast	11	0010011100h
COL 14NE	Northeast	26	0110100100h
COL 17NE	Northeast	24	0110100000h
COL 19NE	Northeast	27	0110110001h
COL 20NE	Northeast	15	0010110001h
COL 31NE	Northeast	22	0110010001h
COL 35NE	Northeast	25	0110100010h
COL 43NE	Northeast	31	0111100000h
COL 49NE	Northeast	6	0000010110h
COL 51NE	Northeast	24	0110100000h
COL 52NE	Northeast	28	0110110011h
COL 56NE	Northeast	19	0110000000h
COL 58NE	Northeast	24	0110100000h
COL 59NE	Northeast	27	0110110001h
COL 61NE	Northeast	14	0010100100h
COL 64NE	Northeast	14	0010100100h
COL 65NE	Northeast	8	0010000100h
COL 69NE	Northeast	2	0000000100h
COL 70NE	Northeast	23	0110010101h
COL 71NE	Northeast	10	0010010101h
COL 5S	Peninsular	42	1110011100h
COL 11S	Peninsular	18	0100010100h
COL 16S	Peninsular	8	0010000100h
COL 17S	Peninsular	9	0010010100h
COL 18S	Peninsular	38	1100010101h
COL 22S	Peninsular	8	0010000100h
COL 26S	Peninsular	4	0000010001h
COL 27S	Peninsular	32	1000010100h
COL 28S	Peninsular	32	1000010100h
COL 30S	Peninsular	35	1010010001h
COL 32S	Peninsular	36	1010010101h
COL 35S	Peninsular	41	1110010101h
COL 36S	Peninsular	5	0000010101h
COL 37S	Peninsular	37	1100010001h
COL 38S	Peninsular	37	1100010001h
COL 39S	Peninsular	35	1010010001h
COL 40S	Peninsular	37	1100010001h
COL 41S	Peninsular	41	1110010101h

Sample	Population	Haplotype Code	Haplotype
COL 42S	Peninsular	35	1010010001h
COL 43S	Peninsular	40	1110010001h
COL 45S	Peninsular	1	0000000000h
COL 47S	Peninsular	1	0000000000h
COL 48S	Peninsular	36	1010010101h
COL 49S	Peninsular	36	1010010101h
COL 50S	Peninsular	36	1010010101h
COL 52S	Peninsular	35	1010010001h
COL 53S	Peninsular	34	1010010000h
COL 55S	Peninsular	34	1010010000h
COL 57S	Peninsular	37	1100010001h
COL 58S	Peninsular	37	1100010001h
COL 59S	Peninsular	40	1110010001h
COL 60S	Peninsular	38	1100010101h
COL 61S	Peninsular	38	1100010101h
COL 62S	Peninsular	41	1110010101h
COL 66S	Peninsular	40	1110010001h
COL 67S	Peninsular	40	1110010001h
COL 68S	Peninsular	38	1100010101h

Seventy-nine TE-AFLP patterns for the primer pair *Xba*I-CT/*Bam*HI-C

Sample	Population	Haplotype Code	Haplotype
COL 1C	Central	55	0101000000000000111h
COL 3C	Central	28	00011011000000010101h
COL 5C	Central	20	00010001000110011101h
COL 6C	Central	18	00010001000000010101h
COL 8C	Central	21	00010001010001010101h
COL 10C	Central	63	01010001100000010101h
COL 13C	Central	23	00010011000000010001h
COL 14C	Central	16	00010000100000011101h
COL 16C	Central	22	00010010000110011101h
COL 20C	Central	6	00010000000000010101h
COL 21C	Central	70	0111000000000000100h
COL 24C	Central	56	01010000000000001001h
COL 26C	Central	64	01010010000000001001h
COL 27C	Central	77	11010001010110011001h
COL 28C	Central	54	01000101001000001001h
COL 30C	Central	57	01010000000000001101h
COL 31C	Central	65	01010010000000101101h
COL 32C	Central	78	11010010000000101101h
COL 33C	Central	30	00100000000000110000h
COL 34C	Central	32	00100000001000110000h
COL 2N	North	11	00010000000000110101h
COL 3N	North	11	00010000000000110101h
COL 5N	North	21	00010001010001010101h
COL 8N	North	45	00110000010001010011h
COL 9N	North	14	00010000010001010101h
COL 10N	North	15	00010000010001110101h
COL 11N	North	59	01010000000000010101h
COL 12N	North	6	00010000000000010101h
COL 14N	North	7	00010000000000010110h
COL 23N	North	46	00110000010001110101h
COL 24N	North	43	00110000000000110101h
COL 26N	North	41	00110000000000010101h
COL 27N	North	19	00010001000000110101h
COL 30N	North	18	00010001000000010101h
COL 31N	North	15	00010000010001110101h
COL 32N	North	11	00010000000000110101h
COL 33N	North	44	00110000010001010001h
COL 34N	North	11	00010000000000110101h
COL 1NE	Northeast	42	00110000000000110001h
COL 2NE	Northeast	34	00100000010001010001h
COL 10NE	Northeast	40	00110000000000010001h

Sample	Population	Haplotype Code	Haplotype
COL 13NE	Northeast	69	01101000000000110001h
COL 14NE	Northeast	35	00100001000000010001h
COL 17NE	Northeast	36	00100001000000110001h
COL 19NE	Northeast	49	00110001000000110001h
COL 20NE	Northeast	58	0101000000000010001h
COL 31NE	Northeast	37	00100011000000010001h
COL 35NE	Northeast	50	00110011000000010101h
COL 43NE	Northeast	38	00100011000000110001h
COL 49NE	Northeast	68	01100001000000111001h
COL 51NE	Northeast	35	00100001000000010001h
COL 52NE	Northeast	47	00110001000000010001h
COL 56NE	Northeast	31	00100000000000110001h
COL 58NE	Northeast	29	0010000000000010001h
COL 59NE	Northeast	29	0010000000000010001h
COL 61NE	Northeast	33	00100000010000010001h
COL 64NE	Northeast	40	0011000000000010001h
COL 65NE	Northeast	29	0010000000000010001h
COL 69NE	Northeast	29	0010000000000010001h
COL 70NE	Northeast	39	0011000000000010000h
COL 71NE	Northeast	29	0010000000000010001h
COL 5S	Peninsular	8	0001000000000011001h
COL 11S	Peninsular	27	0001010100000001001h
COL 16S	Peninsular	57	0101000000000001101h
COL 17S	Peninsular	67	01010100010000101000h
COL 18S	Peninsular	71	0111000000110011001h
COL 22S	Peninsular	75	1101000010000001110h
COL 26S	Peninsular	48	00110001000000011101h
COL 27S	Peninsular	79	11110100001000011000h
COL 28S	Peninsular	4	00000010100000010000h
COL 30S	Peninsular	76	11010000110110111101h
COL 32S	Peninsular	17	00010000110110111101h
COL 35S	Peninsular	61	01010000001110111101h
COL 36S	Peninsular	62	01010000010110111001h
COL 37S	Peninsular	12	00010000000110111001h
COL 38S	Peninsular	73	10010000000110011001h
COL 39S	Peninsular	5	00010000000000001001h
COL 40S	Peninsular	13	00010000000110111101h
COL 41S	Peninsular	74	11010000000000001001h
COL 42S	Peninsular	5	00010000000000001001h
COL 43S	Peninsular	9	00010000000000101001h
COL 45S	Peninsular	11	00010000000000110101h
COL 47S	Peninsular	66	01010100000110111001h
COL 48S	Peninsular	9	00010000000000101001h

Sample	Population	Haplotype Code	Haplotype
COL 49S	Peninsular	5	0001000000000001001h
COL 50S	Peninsular	10	00010000000000110001h
COL 52S	Peninsular	72	10010000000000110001h
COL 53S	Peninsular	26	00010100100000110101h
COL 55S	Peninsular	25	00010100000110111101h
COL 57S	Peninsular	60	01010000000110111001h
COL 58S	Peninsular	60	01010000000110111001h
COL 59S	Peninsular	1	0000000000000101001h
COL 60S	Peninsular	51	01000000000110111101h
COL 61S	Peninsular	3	00000000100000101001h
COL 62S	Peninsular	24	00010100000000101101h
COL 66S	Peninsular	53	01000100000110111101h
COL 67S	Peninsular	52	01000000100000101001h
COL 68S	Peninsular	2	00000000000110111101h

Seventeen SSCP haplotypes for 16S rRNA gene

Sample	Population	Haplotype Code	Haplotype
COL 1C	Central	15	00100000010000000000000000000h
COL 3C	Central	17	11000000000000000000000000000h
COL 4C	Central	17	11000000000000000000000000000h
COL 5C	Central	17	11000000000000000000000000000h
COL 6C	Central	17	11000000000000000000000000000h
COL 7C	Central	17	11000000000000000000000000000h
COL 8C	Central	17	11000000000000000000000000000h
COL 9C	Central	17	11000000000000000000000000000h
COL 10C	Central	17	11000000000000000000000000000h
COL 11C	Central	17	11000000000000000000000000000h
COL 12C	Central	15	00100000010000000000000000000h
COL 13C	Central	15	00100000010000000000000000000h
COL 14C	Central	17	11000000000000000000000000000h
COL 15C	Central	17	11000000000000000000000000000h
COL 16C	Central	17	11000000000000000000000000000h
COL 17C	Central	17	11000000000000000000000000000h
COL 18C	Central	17	11000000000000000000000000000h
COL 19C	Central	17	11000000000000000000000000000h
COL 20C	Central	17	11000000000000000000000000000h
COL 2N	North	14	00011000000000000000000000000h
COL 3N	North	14	00011000000000000000000000000h
COL 5N	North	11	00001001000000000000000000000h
COL 8N	North	11	00001001000000000000000000000h
COL 9N	North	13	00010010000000000000000000000h
COL 10N	North	13	00010010000000000000000000000h
COL 11N	North	13	00010010000000000000000000000h
COL 12N	North	12	00001001000000000000000000000h
COL 14N	North	12	00001001000000000000000000000h
COL 17N	North	12	00001001000000000000000000000h
COL 32N	North	16	10001000000000000000000000000h
COL 1NE	Northeast	8	00000000000001100000000000000h
COL 2NE	Northeast	9	00000000000110000000000000000h
COL 3NE	Northeast	9	00000000000110000000000000000h
COL 9NE	Northeast	9	00000000000110000000000000000h
COL 10NE	Northeast	9	00000000000110000000000000000h
COL 13NE	Northeast	7	00000000000000110000000000000h
COL 14NE	Northeast	7	00000000000000110000000000000h
COL 17NE	Northeast	3	000000000000000000000000110000h
COL 19NE	Northeast	7	00000000000000110000000000000h
COL 20NE	Northeast	8	00000000000001100000000000000h
COL 22NE	Northeast	8	00000000000001100000000000000h

Sample	Population	Haplotype Code	Haplotype
COL 26NE	Northeast	4	0000000000000000000011000000h
COL 31NE	Northeast	8	0000000000000011000000000000h
COL 43NE	Northeast	6	00000000000000000000110000000000h
COL 44NE	Northeast	6	00000000000000000000110000000000h
COL 49NE	Northeast	6	00000000000000000000110000000000h
COL 51NE	Northeast	7	00000000000000000000110000000000h
COL 52NE	Northeast	3	0000000000000000000000000000110000h
COL 56NE	Northeast	5	00000000000000000000001100000000h
COL 61NE	Northeast	7	00000000000000000000110000000000h
COL 64NE	Northeast	4	000000000000000000000011000000h
COL 65NE	Northeast	4	000000000000000000000011000000h
COL 69NE	Northeast	7	00000000000000000000110000000000h
COL 70NE	Northeast	10	000000000011000000000000000000h
COL 71NE	Northeast	9	000000000000110000000000000000h
COL 5S	Peninsular	2	000000000000000000000000000001100h
COL 11S	Peninsular	2	000000000000000000000000000001100h
COL 16S	Peninsular	1	00000000000000000000000000000011h
COL 17S	Peninsular	1	00000000000000000000000000000011h
COL 36S	Peninsular	1	00000000000000000000000000000011h
COL 37S	Peninsular	1	00000000000000000000000000000011h
COL 38S	Peninsular	1	00000000000000000000000000000011h
COL 42S	Peninsular	2	000000000000000000000000000001100h
COL 43S	Peninsular	2	000000000000000000000000000001100h
COL 45S	Peninsular	2	000000000000000000000000000001100h
COL 47S	Peninsular	2	000000000000000000000000000001100h
COL 48S	Peninsular	2	000000000000000000000000000001100h
COL 49S	Peninsular	2	000000000000000000000000000001100h
COL 50S	Peninsular	2	000000000000000000000000000001100h
COL 52S	Peninsular	2	000000000000000000000000000001100h
COL 53S	Peninsular	2	000000000000000000000000000001100h
COL 55S	Peninsular	2	000000000000000000000000000001100h
COL 56S	Peninsular	2	000000000000000000000000000001100h
COL 57S	Peninsular	2	000000000000000000000000000001100h
COL 58S	Peninsular	2	000000000000000000000000000001100h
COL 59S	Peninsular	2	000000000000000000000000000001100h
COL 60S	Peninsular	2	000000000000000000000000000001100h
COL 61S	Peninsular	2	000000000000000000000000000001100h
COL 62S	Peninsular	2	000000000000000000000000000001100h
COL 67S	Peninsular	2	000000000000000000000000000001100h
COL 21C	Prachuap Khiri Khan	17	110000000000000000000000000000h
COL 22C	Prachuap Khiri Khan	17	110000000000000000000000000000h
COL 23C	Prachuap Khiri Khan	17	110000000000000000000000000000h
COL 24C	Prachuap Khiri Khan	17	110000000000000000000000000000h

Sample	Population	Haplotype Code	Haplotype
COL 51NE	Northeast	7	00000000000000000000100000001000000h
COL 52NE	Northeast	8	00000000000000000000100000001000000h
COL 56NE	Northeast	19	00000000100000000000000000000000h
COL 61NE	Northeast	17	000000000001000010000000000000000h
COL 64NE	Northeast	28	00010000000010000000000000000000h
COL 65NE	Northeast	28	00010000000010000000000000000000h
COL 69NE	Northeast	8	00000000000000000000100000001000000h
COL 70NE	Northeast	20	00000000101000000000000000000000h
COL 71NE	Northeast	8	00000000000000000000100000001000000h
COL 5S	Peninsular	4	000000000000000000001000000010000h
COL 11S	Peninsular	5	000000000000000000001000001000000h
COL 16S	Peninsular	3	00000000000000000000100000001000h
COL 17S	Peninsular	3	00000000000000000000100000001000h
COL 36S	Peninsular	6	000000000000000000001000010000000h
COL 37S	Peninsular	3	00000000000000000000100000001000h
COL 38S	Peninsular	3	00000000000000000000100000001000h
COL 42S	Peninsular	6	000000000000000000001000010000000h
COL 43S	Peninsular	6	000000000000000000001000010000000h
COL 47S	Peninsular	5	000000000000000000001000001000000h
COL 48S	Peninsular	5	000000000000000000001000001000000h
COL 49S	Peninsular	5	000000000000000000001000001000000h
COL 50S	Peninsular	5	000000000000000000001000001000000h
COL 52S	Peninsular	5	000000000000000000001000001000000h
COL 53S	Peninsular	5	000000000000000000001000001000000h
COL 55S	Peninsular	5	000000000000000000001000001000000h
COL 56S	Peninsular	5	000000000000000000001000001000000h
COL 57S	Peninsular	5	000000000000000000001000001000000h
COL 59S	Peninsular	6	000000000000000000001000010000000h
COL 60S	Peninsular	6	000000000000000000001000010000000h
COL 61S	Peninsular	15	0000000000010000000000000010000000h
COL 62S	Peninsular	6	000000000000000000001000010000000h
COL 67S	Peninsular	6	000000000000000000001000010000000h
COL 21C	Prachuap Khiri Khan	32	01001000000000000000000000000000h
COL 24C	Prachuap Khiri Khan	32	01001000000000000000000000000000h
COL 25C	Prachuap Khiri Khan	32	01001000000000000000000000000000h
COL 27C	Prachuap Khiri Khan	32	01001000000000000000000000000000h
COL 28C	Prachuap Khiri Khan	32	01001000000000000000000000000000h
COL 29C	Prachuap Khiri Khan	32	01001000000000000000000000000000h
COL 31C	Prachuap Khiri Khan	26	00010000000000100000000000000000h
COL 32C	Prachuap Khiri Khan	26	00010000000000100000000000000000h
COL 18S	Chumphon	14	00000000000100000000000000001000000h
COL 20S	Chumphon	14	00000000000100000000000000001000000h
COL 22S	Chumphon	22	000000100000000000000000000010000h

Sample	Population	Haplotype Code	Haplotype
COL 26S	Chumphon	22	00000001000000000000000000000000010000h
COL 27S	Chumphon	9	000000000000000000000000010000000001000000h
COL 28S	Chumphon	10	000000000000000000000000010000010000000000h
COL 30S	Chumphon	16	000000000000010000000000000100000000000h
COL 32S	Chumphon	12	0000000000000000000000000100000010000000000h
COL 39S	Chumphon	18	000000000010000000100000000000000000000h
COL 40S	Chumphon	24	000010000100000000000000000000000000000h
COL 41S	Chumphon	6	00000000000000000000000000010000100000000h

BIOGRAPHY

Miss Montalee Theeraapisakkun was born on Sep 20, 1982 in Bangkok, Thailand. She graduated with a Bachelor of Science degree in Biochemistry, Faculty of Science, Chulalongkorn University in 2004. She has further studied for the Doctor of Philosophy (Ph.D.) degree in Biochemistry, Faculty of Science, Chulalongkorn University since 2004.



