

LAO PEOPLE'S DEMOCRATIC REPUBLIC SELECTED PLANTS of XIENG KHOANG PROVINCE

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Photos by: D. D. Soejarto and Joshua M. Henkin

Produced with support from the Program Project Grant P01-CA125066 (2007-2019) from the National Cancer Institute, National Institutes of Health, Bethesda, Maryland, U.S.A.; the Ohio State University, Columbus Ohio; the University of Illinois at Chicago and the Field Museum, Chicago, USA.

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Road sign marking the Xieng Khoang Medicinal Biodiversity Preserve.



Panoramic view of the montane forest near the MBP (cleared agricultural area in the foreground).



Closer view of the preserve's submontane forest.

The following images represent voucher herbarium specimens preserved at the Herbarium of the Institute of Traditional Medicine (ITM) in Vientiane, Laos, and at the J. D. Searle Herbarium of the Field Museum of Natural History (Chicago, USA). They were collected as part of a project in the discovery of anticancer agents from plants. Collections were made in the submontane forest of northeastern Laos (1000-1200 m above sea level; and a GPS reading of 19°43' N; 103°35' E) in the province of Xieng Khoang, about 65 km from Xieng Khoang capital city of Phonsavanh, specifically, within the protected forest designated by the Ministry of Health as “Medicinal Biodiversity Preserve” (MBP). Sporadic collections were also made along the roadsides in the protected area and in the edges of forest and in semi-open forest bordering the more intact forest cover. Part of the collections was made during the dry season (May), and part during the beginning of the dry season (December).

The field research was conducted under a collaborative agreement between the University of Illinois at Chicago and the Institute of Traditional Medicine of the Ministry of Health of Laos.



1

ສັນ ແກ່ນ, ຊ້າ ສັນ, ສົ້ມ ເບົ້າ (San Ken, Xa San, Som Bao)



Saurauia napaulensis 14988



ACTINIDIACEAE



2

ກຳ ມັນ, ໄມ ກຳ ຕາຍ, ກຳ ມ ປູ ບົກ (Kam Man, Mai Kam Tay, Kam Pou Bok)



Viburnum sambucinum 14967



ADOXACEAE

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3 ເຄືອ ຫັນ ແດງ (Kheua Han Deng) *Deeringia amaranthoides* JMH 060
AMARANTHACEAE

4 ສົ້ມ ພົດ (Som phod) *Rhus chinensis* 14928
ANACARDIACEAE



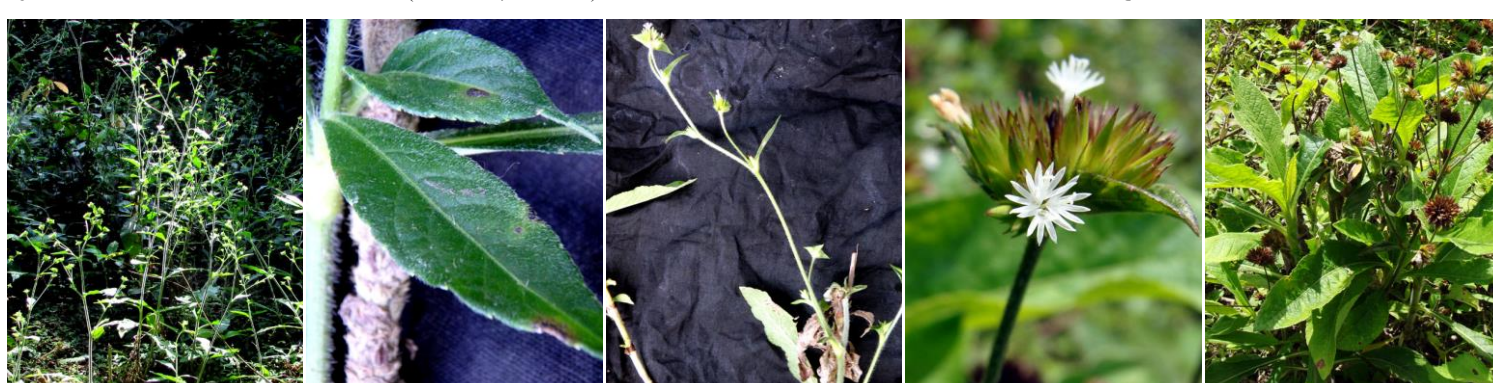
5 ເຄືອ ເອ້ນ ອ່ອນ (Kheua En Onh) *Cryptolepis dubia* 14971

APOCYNACEAE



6 ໄຂ່ ມົດ, ນົມ ສາວ (Khai Mod, Nom Sao) *Ilex rotunda* 14918

AQUIFOLIACEAE



8 ຂີ່ ໄປ ນົກ ຊຸ້ມ (Khee Phai Nok Khoum) *Elephantopus mollis* 14991

ASTERACEAE

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7 ຫາດ ເຫຼອງ, ໂກ ຍິດ ຕັງ (Nat Louang, Kor Yeud Tang)

Inula cappa JMH 062

ASTERACEAE



9 ດອກ ບົວ ຕອງ, ດອກ ຕາ ເວ້ນ ຫູ ດອກ ຕາ ເວ້ນ ນ້ອຍ (Dok Bua Tong, Dok Ta Ven Nou, Dok Ta Ven Noy)

Tithonia diversifolia JMH 063

ASTERACEAE



10 ຈ່າງ ຈິດ, ປິດ ເຍ້ຍ (Chang Chued, Pit Pey)

Vernonia arborea JMH 030

ASTERACEAE



11 ຫ້າຍ ເກັດ ຫອຍ, ຜັກ ລົມ ຜົວ (Nha Ket Hoy, Phak Leum Phua)

Lobelia nummularia 14964

CAMPANULACEAE

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12 ປໍ ຫູ (Por Hou)

Trema orientalis 14983

CANNABACEAE

13 ກຳ ລັງ ມ້າ ກຳ (Kham Lang Mar Kam) *Chloranthus spicatus* 15004 CHLORANTHACEAE



13 *Chloranthus spicatus* 15004 CHLORANTHACEAE

CHLORANTHACEAE

14 ສັງ ສາ (Sang Sa)

Disporum calcaratum JMH 054

COLCHICACEAE



15 ເຄືອ ໝາ ວີ້ (Kheua Ma Vor)

Rourea minor JMH 023

CONNARACEAE

16 *Alangium kurzii* 14962 CORNACEAE



16 ຊ້າ ຍານ, ຊ້າ ມອນ (Xa Nhan, Xa Mon)

Alangium kurzii 14962

CORNACEAE

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17 ກົກ ຄໍ ແຫບ, ໂກ ແອບ (Kok Khor Hep, Koh Aep)

EBENACEAE



Diospyros hayatae JMH 055



18 ກໍ່ ມ້າ ຕິດ (Kor Ma Did)

JMH 064



Baliospermum calycinum
EUPHORBIACEAE



18 *Baliospermum calycinum*
EUPHORBIACEAE



19 ປໍ່ ຂີ່ ເທົ່າ, ກໍ່ ຕັ້ງ ກົບ (Por Khee Thao, Kor Tang Kob)



Mallotus macrostachyus 14980



EUPHORBIACEAE



20 ໄລ້ ພິດ (Lai Phit)



Senna hirsuta JMH 007



21 ເຄືອ ຫັນ ຂາວ (Kheua Hen Khao)

JMH 024



Acacia pennata
FABACEAE-MIMOSOIDEAE



22 *Derris robusta*
FABACEAE-PAPIL.



22 ເຄືອ ອອ້ຍ ສາມ ສວນ (Kheua Oy Sam Suan)

Derris robusta 14977 FABACEAE-PAPILIONOIDEAE



23 ຫໍ່ຍາ ຫນອນ ຫໍ່ຍາຍ (Nha Non Nay)

FABACEAE-PAPILIONOIDEAE



Tadehagi triquetrum 14992

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24 ກໍ່ຕາ ແລ່ນ (Kor Ta Len)

Lithocarpus toumorangensis 14981
FAGACEAE

25 *Rhynchosotechum ellipticum* 14998
GESNERIACEAE



26 ກົກ ເໝົ້າ ນ້ຳ, ໜາດ ດົງ (Kok Mao Nam, Nat Dong)

GESNERIACEAE

Rhynchosotechum ellipticum 14998

26 ຫອ້ມ ດົງ, ບັ້ງ ເລັ່ນ (Hom Dong, Bong Len)

Dichroa febrifuga 14972

HYDRANGEACEAE



27 ກະ ດອ້ຍ ປາ ມອ້ມ (Ka Doy Pa Mom)

Itea macrophylla JMH 048

ITEACEAE



28 ພ່າວ ຊຽວ, ຫາງ ອັ້ນ (Phao Kheo, Hang Onh)

Engelhardia roxburghiana JMH 027
JUGLANDACEAE

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29 ພ່າວ ນາ ຊີ້, ພ່າວ ຮວງ (Phao Na Xee, Phao Huang)

Engelhardia spicata JMH 065

JUGLANDACEAE



30 ຜ້າ ຮ້າຍ, ກົກ ເປືອກ ຜ້າ (Pha Hay, Kok Peuk Pha)

Callicarpa macrophylla 14969

LAMIACEAE



31 ຝາ ນົກ, ກົກ ໝາກ ປັດ, ກົກ ປິດ ເປຍ (Pha Nok, Kok Mak Pat, Kok Pit Pia)

Callicarpa rubella 14986

LAMIACEAE



32 ພວງ ພີ່ ຂາວ (Phuong Phee Khao)

Clerodendrum chinense 14955

LAMIACEAE

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33 ລົມ ໄຟ, ໜາດ ຫອມ (Lom Phai, Nat Hom) *Elsholtzia blanda* JMH 013

LAMIACEAE

34 ໜາດ ຂາວ (Nat Khao) *Pogostemon nelsonii* JMH 056

LAMIACEAE



34 *Pogostemon nelsonii*
LAMIACEAE

35 ເຄືອ ໂມກ (Kheua Mok)

Premna sp. 15001

LAMIACEAE



36 ຕັບ ຕົ້າ, ຈອນ ເນົາ, ພາຍ ສະ ເພົາ (Tab Tao, Chon Nao, Phai Sa Phao)

Rothea serrata JMH 029

LAMIACEAE



37 ກົກ ຂີ່ ເຫຼັງນ (Kok Khee Ngen)

Vitex quinata 14989

LAMIACEAE

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38

ກໍ່ເມືອກ, ໝີ່ເມືອກ (Kor Meuak, Mee Meuak)

Actinodaphne rehderiana 14968

LAURACEAE



39

ສີໄຄ ຕົ້ນ, ໝາກ ຊາງ (Si Khai Ton, Mak Xang)

LAURACEAE

Litsea cubeba 14982

40

ໝີ່ໄຫ້, ໝີ່ດົງ, (Mee Tho, Mee Dong)

Litsea glutinosa 14956

LAURACEAE



40

Litsea glutinosa 14956
LAURACEAE

41

ກົງ ສະ ເດັ້ນ, ຫ້ອມ ດິນ (Kong Sa Den, Hom Din)

LINDERNIACEAE

Torenia asiatica 15003

42

Reevesia pubescens
MALVACEAE



42

ສະຝ້າຍ, ກົກ ຍາບ (Sa Phay, Kok Nyap)
Reevesia pubescens JMH 021
MALVACEAE

43

ສົ້ມ ບອ້ງ (Som Pong)

Medinilla septentrionalis JMH 001
MELASTOMATACEAE

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44 ເບັນ ອ້າ, ເອັນ ອ້າ, ໝາກ ຂີ້ ຄານ, ໝາກ ກາງ (Ben Ar, En Ar, Mak Khee Khan, Mak Kang)

Melastoma imbricatum 14957

MELASTOMATACEAE



45 ໝາ ນ້ອຍ, ເຄືອ ສະ ໝາດ ເປາະ (Ma Noy, Kheua Sa Nat Por)
Cissampelos pareira JMH 009 MENISPERMACEAE

46 ເຄືອ ທອນ, ຊ້າ ພີ້ ນ້ອຍ (Kheua Thon, Xa Mor Noy)
Pericampylus glaucus 14987 MENISPERMACEAE



47 ກົກ ກະ ດອຍ (Kok Ka Doy) *Ficus subincisa* 14970 MORACEAE

48 ໝາມ ແທ່ງ, ໝາມ ເຂ (Nam Theng, Nam Khe) *Maclura tricuspidata* JMH 044 MORACEAE



48 ໝາມ ແທ່ງ, ໝາມ ເຂ (Nam Theng, Nam Khe) *Maclura tricuspidata* JMH 044 MORACEAE

49 ກໍ່ ຫັດ, ຂີ້ ແບ້ (Kor Hat, Khee Bair) *Ligustrum sinense* 14959 OLEACEAE

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50 ໝາກ ໄໝ່ (Mak Fay)

Baccaurea multiflora 14953

PHYLLANTHACEAE



51 ຊີ້ ມິດ ນ້ອຍ, ກໍ່ ຫົບ ຮັດ (Khee Mote Noy, Kor Heub Hat)

Glochidion eriocarpum 14999

PHYLLANTHACEAE



52 ກົກ ເຂົ້າ ສານ, ຫວ້າ ຊີ້ ມົກ (Kok Khao San, Va Khee Nok)

Pittosporum napaulense JMH 038

PITTOSPORACEAE



53 ສົ້ມ ໂກຍ, ແພວ ນໍ້າ (Som Kouy, Pheo Nam)

Persicaria chinense JMH 047

POLYGONACEAE

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54 ຕາ ກວາງ (Tar Kuang)

Ardisia crenata 14993

PRIMULACEAE



55 ເຄືອ ຂີ້ ມ້ອນ, ສົ້ມ ເລີ (Kheua Khi Mon, Som Leu)

Embelia ribes 14976

PRIMULACEAE

56 ຄັບ (Khub)

Maesa sinensis 14958

PRIMULACEAE



56 *Maesa sinensis* 14958

PRIMULACEAE

57 ເຄືອ ໂມກ ຂົນ, ເຄືອ ເຂົ້າ ສານ (Kheua Mok Khon, Kheua Khao San)

RANUNCULACEAE

Clematis leschenaultiana JM010



58 ເຄືອ ເຂົ້າ ສານ (Kheua Khao San)

JMH 016

Clematis subumbellata

RANUNCULACEAE

59

ເຄືອ ໝາກ ທຸ່ມ ໄຂ່ ປູ, ມະ ຮູ ນ້ອຍ (Kheua Mark Thoum Khai Pou, Ma Hou Noy)

Rubus alceifolius 14960

ROSACEAE

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60 ເຄືອ ມະ ຮູ ໃຫ່ຍ, ພາກ ທຸ່ມ ໃຫ່ຍ (Kheua Ma Hou Nhai, Mak Thoum Nhai)

Rubus pluribracteatus 14963

ROSACEAE



61 ເຄືອ ຕັງ ເບືອ (Kheua Tang Beua) *Mussaenda cambodiana* 14979
RUBIACEAE

62 ເຄືອ ຕົດ ພາ (Kheua Tod Ma) *Paederia foetida* 14978
RUBIACEAE



62 *Paederia foetida* 14978
RUBIACEAE

63 ເຄືອ ລີ້ນ ພາ ໄນ (Kheua Line Ma Nai)

Rubia argyi 14961

RUBIACEAE



64 ເຄືອ ຂໍ ເບັດ, ເຄືອ ພາມ ເລັບ ຮຸ້ງ (Kheua Khor Bet, Kheua Nam Leb Houng)

Uncaria sessilifructus JMH 031

RUBIACEAE

SELECTED PLANTS of XIENG KHOANG PROVINCE

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Photos by: D. D. Soejarto and Joshua M. Henkin

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65

ກົກ ກາວ ນ້ອຍ, ຟານ ປ່ອຍ (Kok Kao Noy, Phan Poy)

Wendlandia laotica JMH 025

RUBIACEAE



66

ຂົມ ລະ ຫວານ ຈໍ້ ນ້ອຍ (Khom La Van Chor Noy)
Euodia simplicifolia 14974

RUTACEAE

67

ສະ ມັດ ຂາວ, ກໍ່ ອ້າຍ ກ່ານ (Sa Mat Khao, Kor Ay Kan)

RUTACEAE

Micromelum falcatum 14954



67

Micromelum falcatum 14954

RUTACEAE

68

ກົກ ຂີ້ ຫຸດ ນ້ອຍ, ໄມ້ ກະ ດູກ (Kok Khee Houd Noy, Mai Ka Douk)

Casearia graveolens JMH 037

SALICACEAE



68

Casearia graveolens
SALICACEAE

69

Casearia cf. membranacea 14941

SALICACEAE

LAO PEOPLE'S DEMOCRATIC REPUBLIC

SELECTED PLANTS of XIENG KHOANG PROVINCE 15

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70

Guioa diplopetala 14975
SAPINDACEAE



71

ດອກ ຟອນ, ໝາດ ນໍ້າ (Dok Fon, Nat Nam)
SCROPHULARIACEAE



Buddleja asiatica JMH 055



72

ເຂືອງ ໂທນ ໃບ ນ້ອຍ (Kheuang Thon Bai Noy)



Smilax glabra JMH 033



SMILACACEAE



73

ກົກ ໜັງ ລອກ, ເໝືອດ ນ້ອຍ (Kok Nang Lok, Meuat Noy)



Symplocos lancifolia 14996

SYMPLOCACEAE



74 *Anneslea fragrans*
THEACEAE [=PENTAPHYL.]



74

ແກ້ມ ອັນ (Kem Onh)
Anneslea fragrans JMH 061
THEACEAE [=PENTAPHYLACACEAE]



75

ຫາງ ລີ (Hang Li)

THEACEAE [=PENTAPHYLACACEAE]



Eurya laotica JMH 039

SELECTED PLANTS of XIENG KHOANG PROVINCE

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76 ຄາຍ ໄຊ້, ໝີ່ ຄາຍ (Khai Xo, Mee Khai)

Schima wallichii JMH 022

THEACEAE



77 ກໍ່ ກໍ່າ ເຫຼືອງ (Kor Ka Leuang)

Wikstroemia meyeniana JMH 026

78 *Debregeasia longifolia* URTICACEAE

THYMELAEACEAE



78 ຊ້າ ປານ ໂບ ຍາວ (Xa Pan Bai Nhao)

Debregeasia longifolia JMH 032

URTICACEAE



79 ຊ້າ ປານ ໄຫ່ຍ (Xa Pan Nhai)

Oreocnide integrifolia JMH 058

URTICACEAE

LAO PEOPLE'S DEMOCRATIC REPUBLIC

SELECTED PLANTS of XIENG KHOANG PROVINCE 17

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80 ເຄືອ ຫູນ, ເຄືອ ປົກ ຕໍ່, ເຄືອ ເມືອກ (Kheua Houn, Kheua Pok Tor, Kheua Meuak)

Cayratia cf. oligocarpa 14990

VITACEAE



81 ກໍ່ ຂັງ ຂຶ້, ຕ້າງ ໄກ່ ຂາວ (Kor Khang Khor, Tang Kai Khao)
VITACEAE

Leea aequata 14995

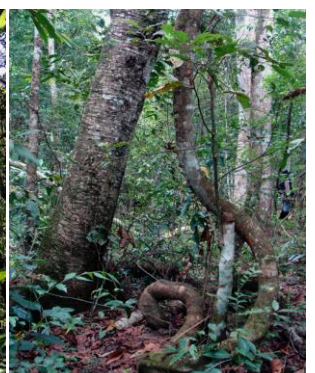
82 ເຄືອ ໄຂ່ ເຕົ້າ (Kheua Khai Tao)
Tetrastigma erubescens 15000 VITACEAE



82 ເຄືອ ໄຂ່ ເຕົ້າ (Kheua Khai Tao)

Tetrastigma erubescens 15000

VITACEAE



Xieng Khoang province in Laos (Wikipedia map)

A view of the secondary forest along roadside

Forest on the slopes of the hills in the MBP

Interior view of the forest (in April-May)

Interior view of the forest (in April-May)