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བམ་ཚན་༢

A Pictorial Guide to
HIGH ALTITUDE PLANTS OF BHUTAN
Including Medicinal Flora

Part - II

Tshering Wangchuk

འབྲུག་གི་སྤོ་སྣན་དང་ས་ཁ་མཐོ་སའི་སྤོ་ཤིང་པར་རིགས་ལག་དེབ།

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Including Medicinal Floras

Part-II

Tshering Wangchuk





དུས་ནམ་ཅིག་གི་ཚེ་ངབཅས་རའི་རྒྱལ་ཁབ་ལུ་སྐྱབས་མ་བདེ་ཤ་རེ་འཐོན་ཏེ་ རོགས་ཕྱི་ཁའི་སྨན་ཚུ་ངབཅས་རའི་རྒྱལ་ཁབ་ནང་ལུ་བཏང་མ་བཏུབ་འདུ་ཤ་ཅིག་འབད་བ་ཅིན་ངབཅས་རའི་ནང་ཁའི་གསོ་བ་རིག་ཁའི་སྨན་གྱིས་འབྲུག་ཁའི་མི་སེར་གཅར་ལུ་ཞུབ་ཚུགས་འབད་དགོ། དེ་འབད་ནི་འདི་གིས་རྒྱལ་ཁབ་ནང་འཛོད་ལུ་ཡོད་ཁའི་སྨན་འདི་ཚུ་གི་དེ་ཐག་བདག་འཛིན་འབད་དེ་གོང་འཕེལ་བཏང་དགོས་ཁག་ཚེ།

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DEDICATION



This book is humbly dedicated to all those remarkable individuals who have walked the forests, mountains, valleys, and sacred landscapes of Bhutan with unwavering dedication to research, document, and conserve the extraordinary wealth of our flora and fauna.



འབྲུག་གི་སྨོ་སྨན་དང་ས་ཁ་མཐོ་སའི་སྨོ་ཤིང་པར་རིགས་ལག་དེབ། བམ་ཚན་༢ པ། དཔྱིད་ཟླ་༡༡པ། ༢༠༢༢

A Pictorial Guide to High Altitude Plants of Bhutan-Including Medicinal Floras Part-II-December 2022

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1. Rinchen Yangzom, NBC, MoAF
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The medicinal plants described in this guideline are intended solely for educational, research, and professional reference purposes. Readers should not independently collect, prepare, process, or use any medicinal plants for therapeutic purposes without the guidance of a qualified TM practitioner. The safe and effective use of medicinal plants requires accurate species identification, appropriate collection and processing, correct dosage, and careful consideration of the patient's condition. Many traditional formulations consist of multiple ingredients that work synergistically to enhance therapeutic efficacy and minimise potential adverse effects. The use of individual plants outside their traditional formulations may reduce effectiveness or pose health risks. Readers are therefore strongly advised against self-medication based on the information contained in this publication.

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དཔལ་ལྡན་འབྲུག་གཞུང་།
གསོལ་བཅུག་ལྷན་ཁང་།
ཐིམ་ཕུ།

ROYAL GOVERNMENT OF BHUTAN
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བློན་པོ།
MINISTER

FOREWORD

Since the formal integration of Traditional Medicine Services into Bhutan's National Healthcare System in 1968, Bhutan has demonstrated a steadfast commitment to preserving, promoting, and advancing its rich medical heritage as an integral component of the country's healthcare delivery system. Rooted in the profound principles of gSo-ba Rig-pa and guided by the national development philosophy of Gross National Happiness, TM has evolved into a scientifically informed, patient-centered, and culturally relevant healthcare system that complements modern medical services while safeguarding centuries-old knowledge and practices.

Over the past five decades, Traditional Medicine Services have achieved remarkable progress in expanding healthcare access, improving the quality of clinical services, strengthening pharmaceutical production, developing specialised human resources, enhancing infrastructure, promoting research and innovation, undertaking scientific validation of traditional therapies, and establishing robust institutional and regulatory frameworks.

Today, TM Services are delivered through a network of 84 TM Hospitals and Units strategically established across all twenty Dzongkhags, ensuring that safe, effective, accessible, and quality traditional healthcare services are available to communities throughout the country.

The continued expansion of TM services has, however, been accompanied by an increasing demand for medicinal resources. Bhutan's rich medicinal flora forms the cornerstone of the TM system. These invaluable natural resources are now facing mounting pressures from exploitation, habitat destruction, climate change, illegal collection and trading, and other anthropogenic influences. Such challenges threaten not only the survival of many medicinal plant species but also the long-term sustainability of the Traditional Medicine system that depends upon them.

Recognising the strategic importance of conserving these invaluable biological resources, the Department of Traditional Medicine Services has initiated a resource mapping programme to systematically document the diversity, distribution, density, and ecological characteristics of medicinal plant species. The programme seeks to establish a comprehensive national inventory of medicinal resources of Bhutan, which will provide an essential foundation for evidence-based conservation planning, sustainable

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collection, monitoring, and informed policy decisions that will safeguard these precious resources for future generations.

In this context, the publication of A Pictorial Guide to High-Altitude Plants of Bhutan is both timely and significant. This guide represents an important contribution towards the documentation of Bhutan's high-altitude plants, including medicinal flora. It will serve as a reference during resource mapping, biodiversity assessment, botanical surveys, conservation programmes, and research on high-altitude plants. By bringing together scientific classification and Sorig nomenclature, it will greatly facilitate the accurate identification of medicinal plant species.

Therefore, I would like to express my appreciation and commendation to Mr Tshering Wangchuk, Senior Programme Officer of the Sorig Research and Development Division, Department of Traditional Medicine Services, Ministry of Health, for his vision, dedication, and painstaking efforts in conceptualising and developing this invaluable publication. His commitment to documenting Bhutan's medicinal plant wealth reflects a deep sense of responsibility towards preserving our nation's natural heritage and strengthening the scientific foundation of the TM of Bhutan.

I am confident that this guideline will serve as an invaluable reference for researchers, forestry professionals, medicinal plant collectors, farmers, pharmaceutical personnel, Traditional Medicine practitioners, and all stakeholders engaged in the conservation and sustainable utilisation of Bhutan's medicinal plant resources. Through collective commitment and coordinated action, we can ensure the sustainable availability of high-quality medicinal raw materials while conserving Bhutan's exceptional biodiversity for future generations.

I hope that this publication will further strengthen the conservation, scientific management, and sustainable utilisation of Bhutan's medicinal plant resources, thereby supporting the continued growth and excellence of Traditional Medicine Services in Bhutan.

Dasho Dechen Wangmo
HEALTH MINISTER

PREFACE

Bhutan, the cradle of medicinal plants, is nestled within the southern slopes of the Eastern Himalayas and represents one of the most biologically significant region in the world owing to its exceptional ecological integrity, extensive forest cover, diverse ecosystems, remarkable altitudinal gradients, and a comprehensive network of protected areas interconnected through biological corridors. Situated within the Himalayan Biodiversity Hotspot, Bhutan's unique geographical position, complex topography, and climatic variability have created a remarkable diversity of habitats and ecological niches that support an extraordinary assemblage of flora and fauna. These ecosystems harbour numerous endemic, rare, endangered, and globally threatened species, making Bhutan a priority region for biodiversity conservation, ecological research, and sustainable natural resource management.

Bhutan's ecological diversity is reflected in its wide range of vegetation zones, extending from subtropical broadleaf forests in the southern foothills to temperate mixed forests, conifer forests, alpine meadows, and high Himalayan scree ecosystems. This pronounced ecological gradient provides suitable habitats for thousands of plant species, many of which possess significant medicinal, ecological, cultural, and economic value. Among these biological resources, medicinal plants occupy a particularly important position as they form the foundation of Bhutan's Traditional Medicine system and support the livelihoods of many rural communities.

Today, Bhutan's rich medicinal plant diversity remains indispensable for the production of essential traditional medicines and the delivery of quality Traditional Medicine services through 84 TM healthcare facilities established across the country. At the same time, these valuable biological resources contribute significantly to biodiversity conservation, scientific research, rural livelihoods, and the country's socio-economic development. Increasing anthropogenic pressures, unsustainable collection practices, illegal extraction, and uncontrolled trade of high-value medicinal species have emerged as significant conservation concerns, and safeguarding this invaluable natural heritage has become both a national responsibility and a global conservation priority.

Although Bhutan's natural ecosystems remain relatively intact and well preserved compared with many regions of the world, comprehensive scientific information regarding the species diversity, population density, spatial distribution, ecology, phenology, regeneration status, and conservation status of medicinal resources remains incomplete. Over the years, numerous botanical surveys, floristic inventories, herbarium

collections, ethnobotanical studies, and research initiatives have been undertaken by the Department of Traditional Medicine Services, Department of Forest and Park Services; Menjong Sorig Pharmaceuticals, National Biodiversity Centre, Ugyen Wangchuck Institute for Forestry Research and Training, and other governmental and research institutions.

Nevertheless, much of the available information remains fragmented, locality-specific, and dispersed across different institutions, limiting its application for national-level resource assessment, conservation prioritisation, policy formulation, and sustainable management planning. Furthermore, a considerable proportion of Bhutan's medicinal flora remains inadequately documented, particularly within remote alpine and sub-alpine ecosystems where field investigations are constrained by rugged terrain, extreme climatic conditions, short growing seasons, and limited accessibility.

The challenges associated with medicinal resource documentation are further intensified by rapidly changing environmental conditions. Climate change, habitat transformation, invasive species, and increasing human pressures are expected to influence species distribution patterns, phenological cycles, population dynamics, and ecosystem interactions. Therefore, systematic documentation, continuous monitoring, and periodic reassessment of medicinal plant resources have become crucial to understand emerging threats and develop adaptive conservation strategies.

Recognising these challenges and the urgent need for scientific documentation, the Department of Traditional Medicine Services, Ministry of Health, initiated the nationwide Resource Mapping Programme to systematically document the diversity, distribution patterns, density, ecological characteristics, phenology, and conservation status of medicinal flora and fauna to establish a comprehensive inventory of Bhutan's medicinal resources.

The information generated through this initiative is expected to provide a critical scientific baseline for biodiversity conservation, sustainable harvesting, ecological monitoring, resource assessment, in-situ and ex-situ conservation, climate change adaptation, and evidence-based decision-making. Furthermore, it is also expected to support the development of strategies and guidelines for the sustainable management of medicinal plants.

As an integral initiative, A Pictorial Guide to High-Altitude Plants of Bhutan has been developed to support field-based Sorig and botanical identification during resource mapping and the documentation of high-altitude plant. The guide presents 1,857 species of high-altitude plants,

including 501 medicinal flora, representing 124 plant families occurring between 2,000 and 5,900 metres above sea level.

The species included in this guide have been arranged according to the internationally accepted Angiosperm Phylogeny Group classification system, thereby harmonising contemporary botanical taxonomy with the Sorig nomenclature. This guide will provide a standardised reference for accurate species identification, minimise taxonomic ambiguity, and promote consistency in documenting medicinal plants among the TM fraternity, botanists, researchers, conservationists, and resource managers. The guide is organised into three volumes:

- Part I comprises 640 species belonging to 45 families (Acanthaceae–Ephedraceae), including 172 medicinal plant species.
- Part II comprises 667 species belonging to 45 families (Equisetaceae–Plantaginaceae), including 176 medicinal plant species.
- Part III comprises 550 species belonging to 34 families (Plumbaginaceae–Zingiberaceae), including 153 medicinal plant species.

This guide incorporates selected non-angiosperm taxa of medicinal importance that are routinely used in Traditional Medicine. These include lichens such as *Lobaria oregano* and *Thamnolia vermicularis*; bryophytes including *Macromitrium sulcatum*; lycophytes such as *Selaginella pulvinata* and *Selaginella tamariscina*; mosses including *Dicranum fulvum*, *Dicranum fuscescens*, *Dicranum majus*, and *Dicranum viride*; as well as medicinal lichens belonging to the genera *Peltigera* and *Pilophorus*.

Special emphasis has been placed on documenting endemic medicinal plant species of Bhutan, including *Allium rhabdotum*, *Bistorta griersonii*, *Buddleja bhutanica*, *Ceropegia dorjei*, *Cotoneaster bumthangensis*, *Delphinium muscosum*, *Lobelia nubigena*, *Meconopsis bhutanica*, *Meconopsis superba*, *Primula chasmophila*, *Rhododendron bhutanense*, *Rhododendron kesangiae*, *Saxifraga thiantha*, *Silene birgittae*, and *Sorbus longii*. These taxa, many of which possess restricted geographic distributions and narrow ecological amplitudes, constitute an important component of Bhutan's botanical endemism and medicinal plant diversity. Their inclusion underscores the need for systematic documentation, ecological assessment, and long-term conservation, as endemic species are inherently more susceptible to habitat degradation, climate change, stochastic environmental events, and anthropogenic disturbances due to their limited distribution and often small population sizes.

This guide also highlights several high-value medicinal species that are subject to increasing harvesting pressure owing to their established

therapeutic importance, high commercial demand, and limited natural regeneration. These include *Aconitum laciniatum*, *Daphne bholua*, *Delphinium drepanocentrum*, *Gentiana urnula*, *Gymnadenia orchidis*, *Nardostachys jatamansi*, *Onosma hookeri*, *Ophiocordyceps sinensis*, *Panax pseudoginseng*, and *Picrorhiza scrophulariiflora*. Many of these taxa are ecologically vulnerable because of their restricted distribution, slow growth rates, specialised habitat requirements, and susceptibility to overexploitation. Their inclusion in this guide aims to enhance awareness of their conservation significance and provide baseline information to support resource monitoring, conservation assessment, sustainable harvesting protocols, and evidence-based management strategies.

Every effort has been made to incorporate the maximum possible number of high-altitude plant species based on available botanical literature, herbarium records, field surveys, taxonomic databases, ecological observations, and TM documentation. However, considering Bhutan's exceptional floristic richness and the continuous discovery of previously undocumented taxa, this guide should be regarded as an evolving scientific reference rather than an exhaustive inventory.

It is sincerely hoped that this pictorial guide will serve as an important scientific resource for strengthening medicinal resource mapping, taxonomic documentation, and biodiversity assessment in Bhutan and reducing taxonomic ambiguity. Furthermore, this publication is anticipated to contribute significantly to the expanding body of scientific knowledge on Bhutan's rich floral diversity by providing a consolidated reference for researchers, botanists, taxonomists, ecologists, conservation practitioners, Traditional Medicine professionals, and students.

The conservation of medicinal plants is fundamental not only to the continued sustainability of raditional Medicine system, but also to the preservation of the country's biodiversity, ecological integrity, cultural heritage, and ecosystem resilience. Through collective efforts, Bhutan's medicinal plant heritage can be conserved and sustainably managed to support the health, well-being, and ecological security of present and future generations.

ABBREVIATIONS

CPO	Chief Program Officer
DEO	District Education Officer
DISVI	Disarmo e Sviluppo (Non-profit Italian NGO)
DoTMS	Department of Traditional Medicine Services
FoTM	Faculty of Traditional Medicine
FYP	Five Year Plan
HAMP	High Altitude Medicinal Plants
JKSNR	Jigme Khesar Strict Nature Reserve
JSWNP	Jigme Singye Wangchuck National Park
KGUMSB	Khesar Gyalpo University of Medical Sciences of Bhutan
Masl	Meter above sea level
MoAF	Ministry of Agriculture and Forest
MoH	Ministry of Health
MP	Medicinal Plants
MR	Medicinal Resources
MSPCL	Menjongsorig Pharmaceutical Corporation Limited
MSPD	Medical Supply and Procurement Division
NBC	National Biodiversity Centre
NCD	Nature Conservation Division
NHCS	National Health Care System
NTMH	National Traditional Medicine Hospital
R&D	Research and Development
SR&DD	Sorig Research and Development Division
TK	Traditional Knowledge
TM	Traditional Medicine
TMR	Traditional Medicine Resources
TMS	Traditional Medicine Service
WCNP	Wangchuk Centennial National Park
WHO	World Health Organisation

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The completion of this guideline is a humble reflection of the collective wisdom, dedication, and unwavering commitment of many individuals who have contributed to the conservation, documentation, and advancement of Traditional Medicine. This work stands on the shoulders of the remarkable efforts of earlier researchers, botanists, and countless plant enthusiasts who devoted their lives to exploring and documenting the diverse flora and fauna of Bhutan.

With extraordinary courage and perseverance, these pioneers traversed some of the most challenging landscapes of our country, from the harsh and rugged alpine mountains to the dense and impenetrable subtropical forests, often enduring difficult weather conditions, geographical barriers, and countless hardships. Their passion and sacrifices have gifted us with invaluable knowledge and laid the foundation for comprehensive works such as the Flora of Bhutan, which continues to serve as an important reference for generations. I offer my deepest respect and heartfelt appreciation to these unsung heroes whose dedication has preserved the natural treasures of our nation for the benefit of present and future generations.

I extend my humble gratitude to Her Excellency Dasho Dechen Wangmo, the Hon'ble Health Minister, for her invaluable support, encouragement, and approval that made this initiative possible. Her visionary leadership and words of wisdom have been a source of inspiration and motivation throughout this journey.

I also express my sincere appreciation to Dasho Pemba Wangchuk, Acting Secretary, Ministry of Health, for his continued guidance, leadership, and encouragement to pursue excellence and deliver work that reflects our shared commitment towards strengthening Bhutan's Traditional Medicine system.

I would like to express my profound gratitude to the following esteemed peer reviewers for their invaluable contributions, critical assessment, and insightful recommendations. Their expertise, thoughtful observations, and constructive feedback have significantly enhanced the scientific accuracy, technical quality, and overall value of this guideline. Beyond improving this publication, their contributions have enriched our collective learning and professional growth. I remain deeply grateful for their time, patience, and commitment.

1. Rinchen Yangzom, Principal Biodiversity Officer, NBC, MoAF
2. Ngawang Gyeltshen, Taxonomist, NCD, DoFPS, MoAF

I am also profoundly indebted to the following plant enthusiasts, TM professionals, researchers, and intellectuals who generously shared their knowledge, experience, and valuable insights at various stages of developing this guideline. Their dedication and willingness to contribute have been instrumental in shaping this work. Their passion for research and documenting medicinal plants serves as an inspiration to all of us.

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5. Jambay Dorji, Research Officer, SR&DD, DoTMS, MoH
6. Yeshi Tshomo, Research Assistant, SR&DD, DoTMS, MoH

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I extend my deepest gratitude to the World Health Organisation Country Office, Thimphu, Bhutan, for its generous financial support and continued encouragement. Without this valuable assistance and partnership, the successful completion and publication of this guideline would not have been possible.

Finally, I would like to express my sincere appreciation to all future readers, practitioners, researchers, and well-wishers who engage with this guideline. Your continued interest, observations, and constructive suggestions will help us identify areas for improvement and ensure that this document remains relevant, accurate, and useful for generations to come. Every comment and contribution will be regarded as a valuable opportunity to further strengthen and enrich Bhutan's Traditional Medicine knowledge system.

With profound gratitude and respect, I acknowledge every individual who has contributed, directly or indirectly, to the realisation of this important work.

INTRODUCTION



The conservation and sustainable utilisation of medicinal resources represent an ongoing journey that requires continuous scientific inquiry, responsible management, and collective commitment. Bhutan, recognised as one of the world's biodiversity hotspots, possesses an extraordinary wealth of medicinal plant diversity that has supported the country's traditional healthcare system for centuries. These natural resources are not merely biological entities; they represent a living heritage deeply intertwined with Bhutanese culture, indigenous knowledge systems, rural livelihoods, and the holistic health philosophy of the country.

The systematic documentation and scientific exploration of Bhutan's medicinal plant resources began with the first botanical expedition conducted under the DISVI Project from 1988 to 1993. The expedition covered the rich alpine ecosystems of Lingzhi, Phajoding, Dochula, and the surrounding regions of Trongsa Dzongkhag, marking a historic milestone in the advancement of medicinal plant research in Bhutan. This pioneering initiative represented the first significant step towards understanding, identifying, documenting, and conserving the country's valuable medicinal flora.

Beyond documenting the plant species, the expedition highlighted the ecological, cultural and socio-economic importance of medicinal resources and recognised their essential contribution to the livelihoods of rural communities. The availability of these resources has enabled the provision of quality TM services through the nationwide network of 84 TM facilities, currently serving communities across the country and contributing significantly to the promotion of holistic health and well-being.

Following the integration of Traditional Medicine services into Bhutan's National Health Care System on 28th June 1968, the demand for medicinal resources has continued to increase substantially. Approximately 150–950 medicinal species and resources are utilised in the preparation of essential traditional medicines, herbal formulations, health supplements, and other therapeutic products. These resources are persistently collected from ecologically sensitive and exploited regions such as Lingshi Drungkhag and Langthel Gewog.

However, decades of continuous collection, coupled with increasing demands for raw materials, climate variability, habitat disturbance, and expanding commercial interest, have placed significant pressure on Bhutan's medicinal plant ecosystems. Several high-altitude and low-altitude medicinal species are now facing increasing threats due to unsustainable harvesting practices, habitat degradation, and reduced

natural regeneration capacity. The slow growth cycle, restricted geographic distribution, and specific ecological requirements of many medicinal plants further increase their vulnerability to depletion.

The conservation challenge is further intensified by the extensive use of medicinal resources among local healers and commercial stakeholders. Records maintained by the Department of Traditional Medicine Services, Ministry of Health, indicate the presence of more than 2,060 local healers involved in traditional healing practices, while the National Biodiversity Centre, Ministry of Agriculture and Forests, has documented 789 traditional knowledge holders associated with the use of biological resources. Appropriate scientific management frameworks are required to ensure sustainable resource utilisation by these local healers.

Furthermore, increasing demand from private pharmaceutical companies, herbal product manufacturers, and other commercial users has contributed to intensified harvesting pressure, including over-collection, unsustainable extraction, and risks associated with illicit trade. These challenges are compounded by limited enforcement mechanisms, inadequate monitoring systems, and gaps in the implementation of conservation strategies, policies, and regulatory frameworks.

Although Bhutan has not yet experienced large-scale extinction of medicinal plant species, evidence of localised and population-level declines is increasingly apparent. Several species have demonstrated reduced regeneration, declining population density, and restricted distribution within their natural habitats. Such ecological changes serve as early warning indicators of potential future biodiversity loss if appropriate interventions are not implemented.

In view of these emerging challenges, the conservation, sustainable collection, cultivation, and scientific documentation of medicinal plants have become more critical than ever. Protecting Bhutan's medicinal plant heritage requires an integrated approach combining traditional ecological knowledge, modern scientific research, biodiversity conservation principles, sustainable resource management practices, and effective policy implementation.

This guideline therefore serves as an important step towards strengthening the scientific foundation for the documentation of medicinal plants. By promoting responsible collection practices, enhancing documentation, encouraging cultivation and regeneration initiatives, and fostering collaboration among researchers, policymakers, and local communities, Bhutan can safeguard its invaluable medicinal resources for present and future generations while continuing to support the health and well-being of humanity.

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དེཁ་པ་དཔེ་ཐོག་ལྷས་པ་ལཁ་ལེན་དཀའ། མ་སྦྱངས་སྨན་ཆུལ་ཐོཁས་པས་ནད་པ་བསྐྱཁ།
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EQUISETACEAE Horsetail Family



Equisetum arvense L.



Equisetum ramosissimum Desf.

EQUISETACEAE



Equisetum ramosissimum Desf.

ERICACEAE Heath or Blueberry Family



Agapetes serpens (Wight) Sleumer

ERICACEAE



Agapetes smithiana Sleum.



Arctostaphylos alpinus (L.) Spreng.

ERICACEAE



Cassiope fastigiata (Wall.) D. Don



Cassiope selaginoides Hook. f. & Thoms

ERICACEAE



Cassiope wardii C. Marquand



Diplarche multiflora J. D. Hooker & Thomson

ERICACEAE



Diplycosia semi-infera C.B.Cl.



Enkianthus deflexus (Griff.) C.K. Schneid.

ERICACEAE



Gaultheria fragrantissima Wall.



Gaultheria griffithiana Wight.

ERICACEAE



Gaultheria pyroloides Miquel.



Gaultheria trichophylla Royle

ERICACEAE



Lyonia ovalifolia (Wall.) Dude



Lyonia villosa (C. B. Cl.) Handel-Mazzetti

ERICACEAE



Monotropa hypopitys L.



Monotropa uniflora L.

ERICACEAE



Pieris formosa (Wall.) D. Don



Pieris japonica (Thunb.) G. Don

ERICACEAE



Pylora corbieri H. Lev.



Rhododendron aeruginosum Hook.f.

ERICACEAE



Rhododendron aganniphum I. B. Balfour



གསོ་རིག་ཨིང་ » བ་ལུ་དཀར་པོ། (དཔལ། བལ་བུ། དྲུང་ཤིང། སྐུར་དཀར།)

Rhododendron anthopogon D.Don

ERICACEAE



Rhododendron arboreum Sm.



Rhododendron anthopogon subsp. *hypenanthum* (Balf.f.) Cullen

ERICACEAE



Rhododendron arboretum Smith



Rhododendron arboreum subsp. *delavayi* (Franch.) D.F.Chamb.

ERICACEAE



Rhododendron arboreum var. *roseum* Lindl.



Rhododendron argipeplum Balfour f. & Cooper

ERICACEAE



Rhododendron baileyi I. B. Balfour



Rhododendron barbatum G.Don

ERICACEAE



Rhododendron bhutanese D.G. Long & Bowes Lyon



Rhododendron calostrotum Balf. f. & Ward

ERICACEAE



Rhododendron camelliiflorum Hook.f.



Rhododendron campanulatum D.Don

ERICACEAE



Rhododendron campanulata ssp. *aeruginosum* (Hook. fil.) D.F. Chamb



Rhododendron campylocarpum Hook.f.

ERICACEAE



Rhododendron campylogynum Franch



Rhododendron camtschaticum Pall.

ERICACEAE



Rhododendron cephalanthum Franchet



Rhododendron chamaethomsonii (Tagg) Cowan & Davidian

ERICACEAE



Rhododendron ciliatum Hook.f.



Rhododendron cinnabarinum Hook. Fil.

ERICACEAE



Rhododendron cinnabarinum subsp. *xanthocodon* Hook.f.



Rhododendron dalhousiae Hook.f.

ERICACEAE



Rhododendron decorum Franchet



Rhododendron edgeworthii Hook.f.

ERICACEAE



Rhododendron falconeri Hook.f.



Rhododendron flinckii Davidian

ERICACEAE



Rhododendron fragariflorum F. K. Ward



Rhododendron fulgens Hook.f.

ERICACEAE



Rhododendron fulvum Balf.f. & W.W.Sm.



Rhododendron glaucophyllum Rehder

ERICACEAE



Rhododendron glaucophyllum subsp. *tubiformе* (Co. & Davi.) D.G.Long



Rhododendron grande Wight.

ERICACEAE



Rhododendron griffithianum Wight.



Rhododendron hodgsonii Hook.f.

ERICACEAE



Rhododendron kendrickii Nuttall



Rhododendron kesangiae DG Long &Rushfort

ERICACEAE



Rhododendron keysii Nutt.



Rhododendron lanatum Hook.f.

ERICACEAE



Rhododendron lapponicum (L.) Wahlenb



Rhododendron lepidostylum Balf. f. & Forr

ERICACEAE



Rhododendron lepidotum var. *chloranthum* Wall.



Rhododendron lepidotum Wall.

ERICACEAE



Rhododendron leptocarpum Nuttall



Rhododendron lindleyi Moore

ERICACEAE



Rhododendron lowndesii Davidian



Rhododendron maddenii Hook.f.

ERICACEAE



Rhododendron mekongense var. *rubrolineatum* Franchet



Rhododendron mekongense Franchet

ERICACEAE



Rhododendron neriiflorum Franchet



Rhododendron nitidulum var. *nitidulum* R. & E. H. Wilson

ERICACEAE



Rhododendron nivale Hook. f.



Rhododendron niveum Hook.f.

ERICACEAE



Rhododendron papillatum Balfour f. & Cooper.



Rhododendron pendulum Hook.f.

ERICACEAE



Rhododendron phaeochrysum Balf.f. & W.W.Sm.



Rhododendron pogonophyllum Cowan & Davidian

ERICACEAE



Rhododendron primuliflorum Bureau & Franchet



Rhododendron pumilum Hook. f.

ERICACEAE



Rhododendron recurvoides Tagg & K.-Ward



Rhododendron rupicola W. W. Smith

ERICACEAE



Rhododendron rupicola var. *chryseum* (I. B. Balf. & K. W) M. N. Phil.



Rhododendron setosum D.Don

ERICACEAE



Rhododendron succothii Davidian



Rhododendron telmateium I. B. Balfour & W. W. Smith

ERICACEAE



Rhododendron thomsonii Hook. fil.



Rhododendron triflorum Hook. f.

ERICACEAE



Rhododendron tsariense Cowan



Rhododendron virgatum Hook.f.

ERICACEAE



Rhododendron wallichii Hook. fil.



Rhododendron wardii W.W.Sm.

ERICACEAE



Rhododendron wightii Hook. fil.



Vaccinium nummularia Clarke

ERICACEAE



Vaccinium sikkimense C.B.Cl.

EUPHORBIACEAE Spurge Family



Euphorbia bupleuroides Diels

EUPHORBIACEAE



གསོ་རིག་མིང་ » དུར་ཁྲིད། (ཐ་མ། ཏེ་ཝི་ཏ། རྩལ་ལྡན། དུ་མ་ཀ།)

Euphorbia griffithii J. D. Hooker



Euphorbia helioscopia L.

EUPHORBIACEAE



Euphorbia stracheyi Boiss



Euphorbia wallichii Hook.f.

FABACEAE Pea or Bean Family



Acacia mearnsii De Wild.



Albizia julibrissin Durazz.

FABACEAE



Astragalus acaulis Barker



Astragalus bhotanensis Baker

FABACEAE



Astragalus chlorostachys Lindl



Astragalus griersonii Podlech

FABACEAE



Astragalus heydei var. *hendersonii* (Baker) H.Ohba



Astragalus lapponicus Wahlenb.

FABACEAE



Astragalus paroensis Podlech



Astragalus stipulatus D.Don.

FABACEAE



Astragalus strictus Grah.



Astragalus tongolensis Ulbr.

FABACEAE



Astragalus floridulus Podlech



Campylotropis speciosa Schindl.

FABACEAE



Caragana jubata (Pallas) Poiret



Caragana pygmaea (L.) DC.

FABACEAE



Caragana tibetica (Maxim) Kom.



Caragana versicolor Bentham

FABACEAE



Chesneya cuneata (Bent.) Ali.



Chesneya macrantha H.C.Fu.

FABACEAE



Chesneya nubigena (D. Don) Ali.



Chesneya parviflora Jaub. & Spach

FABACEAE



Chesneya polystichoides (Hand.-Mazz.) Ali.



Chesneya purpurea P.C.Li



Chesneya yunnanensis (Yakovlev) Zi G. Qian.

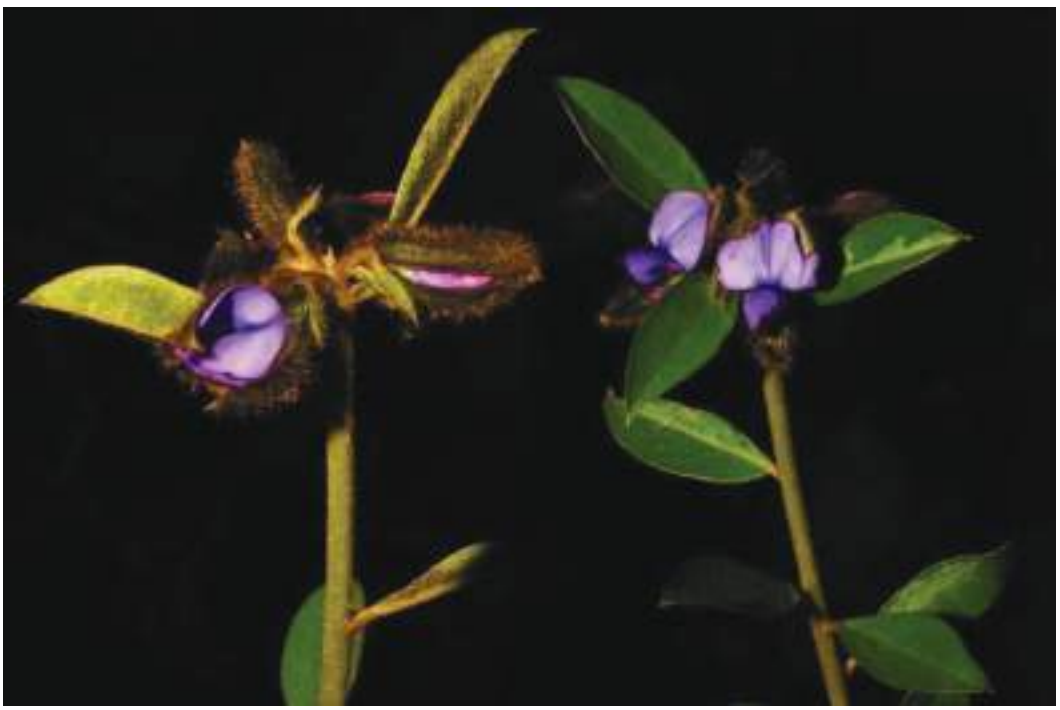


Cochlianthus gracilis Benth.

FABACEAE



Crotalaria calycina Schrank



Crotalaria occulta Bentham

FABACEAE



Crotalaria sessiliflora Linn.



Desmodium heterocarpon (L.) DC.

FABACEAE



Desmodium microphyllum (Thunb.) DC.



Erythrina arborescens Roxb.

FABACEAE



Gueldenstaedtia himalaica Baker



Hedysarum alpinum L.

FABACEAE



Hedysarum inundatum Turcz.



Hedysarum sikkimense Baker

FABACEAE

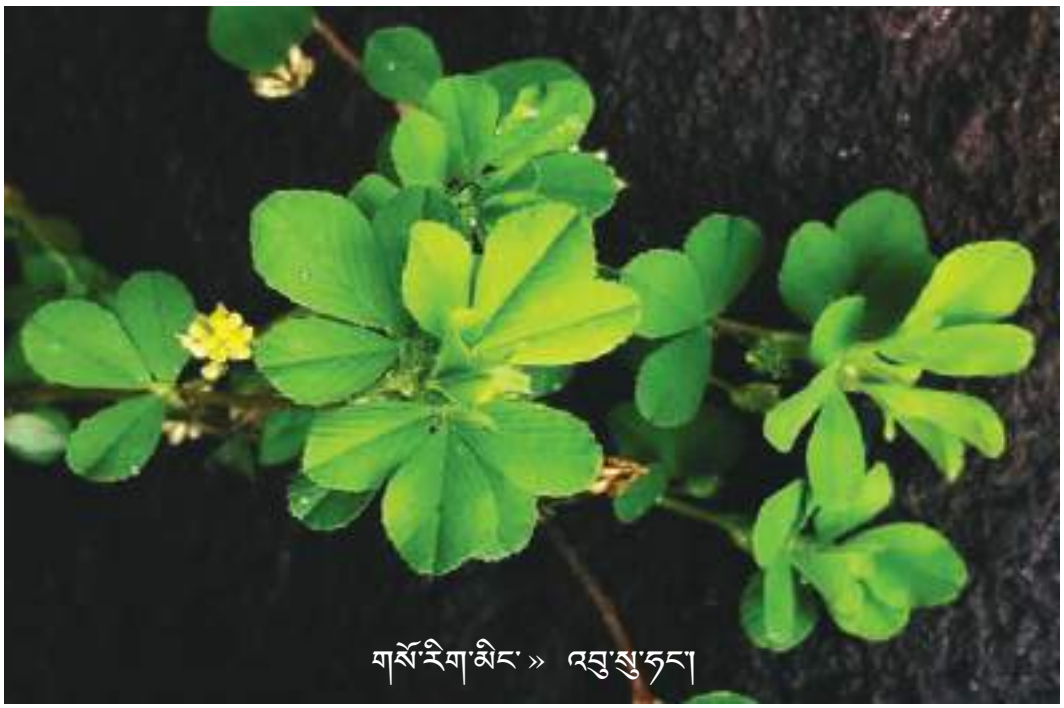


Lupinus polyphyllus Lindl.



Medicago falcata L.

FABACEAE



གསོ་རིག་མིང་ » འབུ་སུ་ཉད།

Medicago lupulina L.



གསོ་རིག་མིང་ » དུག་སྣད། (གཅི་མདངས་མེད་པའི་རྒྱལ་པོ། སྤྲ་རྒྱག་པ། འཐོམ་རྫ།)

Oxytropis campestris (L.) DC.

FABACEAE



Oxytropis hypoglottoides (Baker) Ali.



Oxytropis kansuensis Bunge

FABACEAE



Oxytropis lapponica (Wahlenb.) J.Gay



Oxytropis microphylla (Pallas) Cand.

FABACEAE



Oxytropis ochrocephala Bunge



Oxytropis subpodooba P.C.Li

FABACEAE



Parochetus communis D. Don



Piptanthus nepalensis (Hook.) D.Don

FABACEAE



Pisum sativum L.



Robinia pseudoacacia L.

FABACEAE



Shuteria ferruginea (Bentham) Baker



Smithia ciliata Royle

FABACEAE



Sophora viciifolia Hance



Teramnus labialis (L.f.) Spreng.

FABACEAE



Thermopsis barbata Benth.



Tibetia himalaica (Baker) H.P.Tsui

FABACEAE



Trifolium pratense L.



Trifolium repens L.

FABACEAE



Uraria lagopodioides (L.) DC.



Wisteria sinensis (Sims) DC.

FAGACEAE Oak and Beech Family



Castanopsis indica (Lindl.) A.DC.



Castanopsis tribuloides A.DC.

FAGACEAE



Quercus acutissima Carruth.



Quercus glauca Thunb.

FAGACEAE



Quercus griffithii Miq.



Quercus lamellosa Sm.

FAGACEAE



Quercus lanata Sm.



Quercus oxyodon Miq.

FAGACEAE



Quercus semecarpifolia Smith

GENTIANACEAE Gentian Family



Crawfurdia campanulacea Wall. & Griff.

GENTIANACEAE



Crawfurdia speciosa Wall.



Gentiana acaulis L.

GENTIANACEAE



Gentiana albicalyx Burkill



Gentiana algida Pall.

GENTIANACEAE



Gentiana bryoides Burkill



Gentiana capitata D.Don



Gentiana carinata Griseb.



Gentiana clausa Raf.

GENTIANACEAE



Gentiana clusii E.P.Perrier & Songeon



Gentiana crassicaulis Burkill

GENTIANACEAE



Gentiana crassuloides Bureau & Franchet



Gentiana cruciate L.

GENTIANACEAE



Gentiana depressa D.Don



Gentiana doxiongshangensis T.N.Ho.



Gentiana elwesii C.B.Cl.



Gentiana gilvostriata Marqu.

GENTIANACEAE



Gentiana infelix C.B.Cl.



Gentiana karelinii Griseb.



Gentiana lacerulata H. Smith



Gentiana leucomelaena Kusnezow

GENTIANACEAE



Gentiana loureirii (G.Don) Griseb.



Gentiana lutea L.

GENTIANACEAE



Gentiana maeulchanensis Franchet



Gentiana marginata Griseb.

GENTIANACEAE



Gentiana nubigena Edgew.



Gentiana nyalamensis T.N.Ho.



Gentiana obconica T.N.Ho.



Gentiana oreodoxa Harry Smith

GENTIANACEAE



Gentiana ornata Griseb.



Gentiana pedicellata (D.Don) Griseb.



Gentiana phyllocalyx C. B. Clarke



Gentiana prolata Balf.f.

GENTIANACEAE



གསོ་རིག་མིང་ » ཀྱི་ལྷེ་དཀར་པོ། (ཧ་ཡ་ན། བྱ་དཀར་ཅན།)

Gentiana robusta King.fil.



Gentiana rubicunda Franchet



*Gentiana stipitata (*Edgew.*)*



Gentiana septemfida Pall.

GENTIANACEAE



Gentiana syringea T.N.Ho.



Gentiana thunbergii (G. Don) Grisebach



Gentiana tibetica Hook. fil.



Gentiana tubiflora Griseb

GENTIANACEAE



Gentiana urnula Harry smith



Gentiana veitchiorum Hemsley



Gentiana venusta (G. Don) Griseb.



Gentiana vernayi C. Marquand

GENTIANACEAE



Gentiana wardii W. W. Smith



Gentianella azurea (Bunge) Holub.



Gentianella paludosa (Hook.) H. Sm.



Halenia elliptica D. Don

GENTIANACEAE



Lomatogonium carinthiacum (Wulfen) A.Braun



Lomatogonium cordifolium (Franch.) T.N.Ho.

GENTIANACEAE



Lomatogonium macranthum (Diels & Gilg) Fern.



Lomatogonium sikkimense (Burkill) Harry Sm.

GENTIANACEAE



Lomatogonium stapfii (Burkill) Harry Smith



Lomatogonium rotatum (L.) Fern.

GENTIANACEAE



Megacodon stylophorus (C.B.Cl.) H. Smith



Swertia angustifolia D.Don.

GENTIANACEAE



Swertia bimaculata (Siebold & Zucc.) Hook. f.



Swertia cuneata D. Don



Swertia cordata C.B. Cl.



Swertia corymbosa (Griseb.) Fielding & Gardner

GENTIANACEAE



Swertia crossoloma H.Sm.



Swertia grandiflora H.Sm.



Swertia hookeri C. B. Cl.



Swertia multicaulis D. Don

GENTIANACEAE



Swertia multicaulis var. *petiolata* D. Don



Swertia nervosa C.B.Cl.



Swertia paniculata Wall.



Swertia petiolata D.Don

GENTIANACEAE



Swertia racemosa C.B.Cl.



Swertia speciosa D. Don.



Swertia staintonii H.Sm.



Swertia teres (G.Don) J.Shah. Zoom

GENTIANACEAE



Swertia wardii C. Marquand



Tripterospermum japonicum (Siebold & Zucc.) Maxim.

GERANIACEAE Geranium Family



Geranium bicknellii Britton



Geranium delavayi Franch

GENTIANACEAE



Geranium donianum Sweet



Geranium lambertii Sw.



གསོ་རིག་མིང་ » ལི་ག་དུབ། (བི་ཇ་ར། ཨ་སྣན་ས་དེ། ཀོ་པི་ཉིངཡ་ན།)

Geranium nakaoanum H. Hara



Geranium nepalense Sw.

GENTIANACEAE



Geranium pratense L.



Geranium pylzowianum Maxim

GERANIACEAE



Geranium polyanthes Edgew. & Hook.f.



Geranium procurrens Yeo.

GENTIANACEAE



Geranium refractum Edgew. & Hook. f.



Geranium wallichianum D. Don.

GESNERIACEAE Gesneriad Family



Corallodiscus cooperi (Craib) B.L. Burtt



Corallodiscus flabellata B. L. Burtt

GESNERIACEAE



Corallodiscus kingianus (Craib) B. L



Corallodiscus lanuginosus (R. Brown) B. L. Burtt

GESNERIACEAE



Didymocarpus aromaticus Wall.



Didymocarpus bhutanicus W. T. Wang

GESNERIACEAE



Didymocarpus oblongus Wall.



Aeschynanthus parviflorus (D.Don) Spreng.

GESNERIACEAE



Aeschynanthus sikkimensis (C.B.Clarke) Stapf.

GROSSULARIACEAE Gooseberry Family



Ribes alpestre Deca.

GROSSULARIACEAE



Ribes glaciale Wall.



Ribes griffithii Hook. f. & Thomson

GROSSULARIACEAE



Ribes himalense Decne



Ribes laciniatum J. D. Hooker & Thomson

GROSSULARIACEAE



Ribes orientale Desfont.



Ribes uva-crispa L.

HYDRANGEACEAE Hydrangea Family



Deutzia corymbosa R. Br.



Deutzia bhutanensis Zaik.

HYDRANGEACEAE



Deutzia purpurascens Kalmii.



Hydrangea aspera Buch. D.Don.

HYDRANGEACEAE



Hydrangea heteromalla D. Don.



Hydrangea stylosa J. D. Hooker & Thomson

HYDRANGEACEAE



Philadelphus tomentosus G. Don

HYPERICACEAE Hypericum Family



Hypericum choisianum Robson.



Hypericum elodeoides Choisy



Hypericum himalaicum N. Robson

HYPERICACEAE



Hypericum hookerianum Wight & Arnott



Hypericum uralum Buch. D.Don

ICMADOPHILACEAE Lichenized Fungi Family



Thamnolia vermicularis (Sw.) Schaer.

IRIDACEAE Iris Family



Iris bulleyana Dykes

IRIDACEAE



Iris chrysographes Dykes



Iris clarkei Hook.f.

IRIDACEAE



Iris decora Wall.



Iris dolichosiphon Noltie

IRIDACEAE



གསོ་རིག་མིང་ » ཀོ་ཐ། (མ་ནིང་གྲེ་མ། ཨ་ཅ་བ་ལོ། ཀོ་ཐ་ཚེ་བ།)

Iris goniocarpa Baker



གསོ་རིག་མིང་ » གྲོས་མ་གེ་སར། (གྲོས་མ་ཐོ།)

Iris hookeriana Foster

IRIDACEAE



Iris kemaonensis D.Don.



Iris ruthenica var. *nana* Maxim.

IRIDACEAE



Iris storrington Maxim.



Iris tectorum Maxim.

IRIDACEAE



Iris germanica L.

JUGLANDACEAE Walnut Family



Juglans regia L.

JUNCACEAE Rush Family



Juncus amplifolius A. Camus



Juncus benghalensis Kunth

JUNCACEAE



Juncus thomsnii Buchenau

JUNCAGINACEAE Arrowgrass Family



Triglochin maritima L.

JUNCAGINACEAE



Triglochin palustris L.

LAMIACEAE Mint or Sage Family



Ajuga bracteosa Wall.

LAMIACEAE



Ajuga decumbens Thunb.



Ajuga integrifolia D.Don

LAMIACEAE



Ajuga lobata D.Don



Ajuga ovalifolia Bureau & Franchet



Alajja rhomboidea (Bentham) Ikonnikov



Clinopodium polycephalum (Vaniot) P. S. Hsu

LAMIACEAE



Clinopodium umbrosum (M.Bieb.) K.Koch



Colquhounia coccinea Wall.



Dracocephalum bullatum D. Wall.



Dracocephalum tanguiticum Maxim

LAMIACEAE



Elsholtzia ciliata (Thunberg) Hylander



Elsholtzia cristata (Thunb.) Hyl.

LAMIACEAE



Elsholtzia eriostachya Benth



Elsholtzia densa Benth

LAMIACEAE



Elsholtzia fruticosa (D. Don) Rehder



Elsholtzia griffithii Hook. f.



Elsholtzia splendens F.Maek.



Elsholtzia strobilifera (Benth.) Benth.

LAMIACEAE



Eriophyton wallichii Benth.



Galeopsis bifida Boenn.

LAMIACEAE



Isodon rugosus Wall.



Lamiophlomis rotata (J. D. Hooker) Kudô

LAMIACEAE



Leucas ciliata Benth



Mentha spicata L.



Nepeta connate Benth.



Notochaete hamosa Bentham

LAMIACEAE



Origanum vulgare L.



Phlomis bracteosa Benth



Phlomis breviflora Benth.



Phlomis macrophylla Wall.

LAMIACEAE



Phlomoides rotata (Hook.f.) Mathiesen



Phlomoides tibetica Kamelin & Makhm.



Phlomoides tuberosa (L.) Moench



Phlomoides umbrosa (Turcz.) Kamelin & Makhu

LAMIACEAE



Prunella vulgaris L.



Rabdosia rugosa (Benth.) H.Hara



Salvia campanulata Bentham



Salvia castanea Diels.

LAMIACEAE



གསོ་རིག་མིང་ » འཇིབ་རྩེ་སེར་པོ། (འཇིབ་རྩེ་དཀར་ཐོག། མཇོ་མོ་ནུ་མ། ཨ་ན་ཏ་ནུ།)

Salvia nubicola Sweet



Salvia plectranthoides Griff.



Salvia roborowskii Maxim.



Siphocranion macranthum (Hook.f.) C.Y.Wu.

LAMIACEAE



Stachys byzantine K.Koch



Stachys melissifolia Bentham

LAMIACEAE



Stachys scaberula Vatke



Scutellaria grossa Wall.

LARDIZABALACEAE Lardizabala Family



Holboellia latifolia Wall.

LAURACEAE Laurel Family



Litsea sericea (Nees) Hook.f.

LENTIBULARIACEAE Bladderwort Family



Pinguicula alpina Linn.



Utricularia brachiata Oliver

LILIACEAE Lily Family



Asparagus filicinus D.Don



Cardiocrinum giganteum (Wall.) Makino

LILIACEAE



Disporum calcaratum D.Don.



Disporum cantoniense (Lou.) Merrill

LILIACEAE



Fritillaria cirrhosa D.Don



Fritillaria delavayi Franch

LILIACEAE



Fritillaria unibracteata P. K. Hsiao & K. C. Hsia



Lilium davidii Elwes

LILIACEAE



Lilium leucanthum (Baker) Baker



Lilium nanum Klotzsch

LILIACEAE



Lilium parryi S.Watson



གསོ་རིག་མིང་ » རྒྱ་ཨ་འབྲ་སེར་པོ།

Lloydia flavonutans (H.Hara) Zarrei & Wilkin

LILIACEAE



Lloydia longiscapa Hook.



Lloydia serotina (L.) Ker Gawl.



Lloydia tibetica Oliver



Lloydia yunnanensis Franchet

LILIACEAE



Maianthemum oleraceum (Baker) LaFrankie



Maianthemum purpureum (Wall.) LaFrankie

LILIACEAE



Notholirion bulbuliferum (H. Limpricht) Stearn



Notholirion macrophyllum (D.Don) Boiss.

LILIACEAE



Polygonatum cirrhifolium (Wall.) Royle



Polygonatum hookeri Baker

LILIACEAE



Polygonatum nervulosum Baker



གསོ་དིག་ཚིང་ » ལུག་མཉེ།

Polygonatum verticillatum (L.) All.

LILIACEAE



Polygonatum zanlanscianense Pampanini



Streptopus amplexifolius (L.) DC.

LILIACEAE



Streptopus simplex D.Don

LINACEAE Flax Family



Anisadenia pubescens Griffith

LOBARIACEAE Lung wort or Lungmoss Family



Lobaria oregano (Tuck.) Müll. Arg.



Lobaria pulmonaria (L.) Hoffm.

LOBARIACEAE



Lobaria scrobiculata (Scop.) P.Gaertn.



Lunularia cruciata L.

LYCOPODIACEAE Club-Moss Family



Lycopodium japonicum Thunb. ex Murray

MAGNOLIACEAE Magnolia Family



Magnolia campbellii Hook. f. & Thoms

MAGNOLIACEAE



Magnolia delavayi Franch



Magnolia globosa Hook.f. & Thomson

MALVACEAE Mallow Family



Alcea rosea L.



Malva sylverstris L.

MALVACEAE



Hibiscus syriacus L.



Malva arborea (L.) Webb & Berthel.

MAZACEAE Mazus Family



གསོ་རིག་མིང་ » པ་ཡག། (པ་ཡག་རྩ་པ། བྱ་རོག་ནོར་བུ། ཁོ་ཡག་པ། གཡག་སྐྱིང་)

Lancea tibetica J. D. Hooker & Thomson



Mazus reptans N.E.Br.

MAZACEAE



Mazus surculosus D.Don

MELANTHIACEAE Death camas Family



Paris polyphylla Sm.

MELANTHIACEAE



Trillium govanianum Wall.



Trillium undulatum Willd

MYRSINACEAE Myrsine Family



Ardisia macrocarpa Wall.

MYRTACEAE Myrtle Family



Melaleuca citrina (Curtis) Dum.

NARTHECIACEAE Asphodel Family



Aletris glabra Bureau & Franch



གསོ་རིག་མིང་ » འདམ་བུ་ག་རྣ། (ལྷང་ཁོ་ཆེག་སྐྱེ། རྩ་མངར།)

Aletris pauciflora (Klotzsch) Hand. Mazz

NARTHECIACEAE



Aletris pauciflora var. *khasiana* (J. D. Hook.) F. T. Wang & Tang

ONAGRACEAE Willow herb or Evening primrose Family



Epilobium amurense Hausskn

ONAGRACEAE



Epilobium angustifolium L.



Epilobium latifolium Linn.

ONAGRACEAE



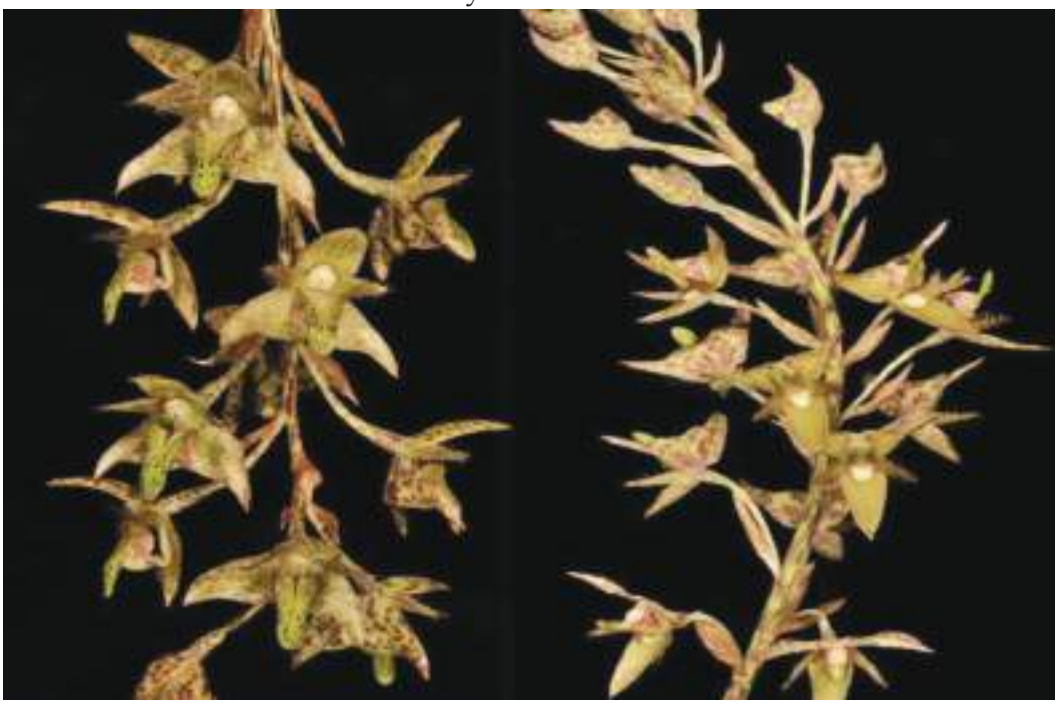
Oenothera biennis L.

OPHIOCORDYCIPITACEAE Parasitic fungi Family



Ophiocordyceps sinensis (Berk.) G.H.Sung, J.M.S, Hywel-Jones & Spatafo.

ORCHIDACEAE Orchid Family



Acrochaene punctata Lindl.



Anthogonium gracile Lindl.



Bhutanthera albovirens Renz.



Bhutanthera himalayana Renz.

ORCHIDACEAE



Bletilla ochracea Schltr.



Bulbophyllum bicolor Lindl.

ORCHIDACEAE



Bulbophyllum cylindraceum Wall.



Bulbophyllum elatum (Hook.f.) J.J.Sm.

ORCHIDACEAE



Bulbophyllum emarginatum (Finet) J. J. Smith, Bull



Bulbophyllum gamblei (Hook.f.) Hook.f.

ORCHIDACEAE



Bulbophyllum griffithii (Lindl.) Rchb. f.



Bulbophyllum guttulatum (J. D. Hooker) N. P. Bal.

ORCHIDACEAE



Bulbophyllum helenae J.J. Sm.



Bulbophyllum muscicola Rchb.f.

ORCHIDACEAE



Bulbophyllum reptans (Lindl.) Lindl.



Bulbophyllum retusiusculum Reichb.f.

ORCHIDACEAE



Bulbophyllum rolfei (Kuntze) Seidenf.



Bulbophyllum secundum Hook.f.

ORCHIDACEAE



Bulbophyllum shweliense W.W. Sm.



Bulbophyllum striatum (Griff.) Rchb.f.

ORCHIDACEAE



Bulbophyllum thomsonii Hook. f.



Bulbophyllum umbellatum Lindl.

ORCHIDACEAE



Calanthe arcuata Rolfe



Calanthe biloba Lind.

ORCHIDACEAE



Calanthe chloroleuca Lindl.



Calanthe griffithii Lindl.

ORCHIDACEAE



Calanthe plantaginea Lindl.



Cephalanthera damasonium (Mill.) Druce

ORCHIDACEAE



Clintonia udensis Trautv. *&* C.A.Mey



Coeloglossum viride (L.) Hartm

ORCHIDACEAE



Coelogyne barbata Griff.



Coelogyne corymbosa Lindl.

ORCHIDACEAE



Coelogyne cristata Lindl.



Coelogyne fimbriata Lindl.



Coelogyne fuscescens Lindl.



Coelogyne nitida Lindl.

ORCHIDACEAE



Coelogyne occultata Hook.f.



Cymbidium erythraeum Lindl.

ORCHIDACEAE



Cymbidium dayanum Rchb.



གསོ་རིག་མིང་ » ཨོ་ལ་ཚལ་མཆོག།

Cymbidium hookerianum H. G. Reich.

ORCHIDACEAE



Cymbidium iridioides D. Don



Cymbidium longifolium D.Don

ORCHIDACEAE



Cypripedium calceolus L.



Cypripedium cordigerum D.Don

ORCHIDACEAE



Cypripedium farreri W.W.Sm.



Cypripedium himalaicum Rolfe

ORCHIDACEAE



གསོ་རིག་མིང་ » ཞུ་བྱུག་པ། (ལྷུམ་བུ་བྱང་ཆུབ། ཀུ་ཤ་ས་ལ།)

Cypripedium tibeticum Kingex Rolfe



Cypripedium yunnanense Franchet

ORCHIDACEAE



Dactylorhiza hatagirea (D.Don) Soó



Dendrobium candidum Wall.

ORCHIDACEAE



Dendrobium chrysanthum Lindley



Dendrobium falconeri Hook

ORCHIDACEAE



Dendrobium hookerianum Lindl.



Dendrobium longicornu Lindl.

ORCHIDACEAE



Dendrobium nobile Lindl.



Dendrobium porphyrochilum Lindl.

ORCHIDACEAE



Epipactis helleborine (Linn.) Crantz



Epipactis mairei Schl.

ORCHIDACEAE



Eria coronaria (Lindl.) Rchb.



Eria graminifolia Lindl.

ORCHIDACEAE



Eria javanica (Sw.) Blume



Eria lasiopetala (Willd.) Ormerod



Eria spicata (D.Don) Hand.-Mazz.



Galearis Huanglongense L.

ORCHIDACEAE



Galearis spathulata (Lindley) P. F. Hunt, Kew Bull.



Galeola lindleyana (Hook.f. & J.W.Thomson) H.G.Reichb

ORCHIDACEAE



Gastrochilus affinis (King & Pantl.) Schltr.



Gastrochilus pseudodistichus (King & Pantl.) Schltr.

ORCHIDACEAE



གསོ་རིག་མིང་ » སྒྲན་སྦྲིབ་ཟྲེ་ལྷེ། (སྒྲན་སྦྲིབ་ཟྲེ་ལྷེ་ལག་པ།)

Goodyera fusca (Lindl.) Hook.f.



Goodyera oblongifolia Raf.

ORCHIDACEAE



Goodyera repens (Linn.) R. Brown



Gymnadenia orchidis Lindl.

ORCHIDACEAE



Hemipilia cordifolia Lindl.



Herminium duthiei Hook.f.

ORCHIDACEAE



Herminium josephi Rchb.f.



Herminium lanceum Vuijk

ORCHIDACEAE



Herminium macrophyllum (D.Don) Dandy



Herminium pygmaeum Renz

ORCHIDACEAE



Malaxis muscifera (Lindl.) Kuntze



Oreocharis nana Schltr.

ORCHIDACEAE



Oreorchis erythrochrysea Handel-Mazzetti



Peristylus fallax Lind.



Phaius delavayi (Finet) P. J. Cribb & Perner



Phaius magniflorus Z.H.Tsi & S.C.Chen

ORCHIDACEAE



Phaius mishmensis Rchb. f.



Phaius tankervilleae (Banks) Blume

ORCHIDACEAE



Phalaenopsis taenialis Lindl.



Pholidota missionariorum Gagnep.

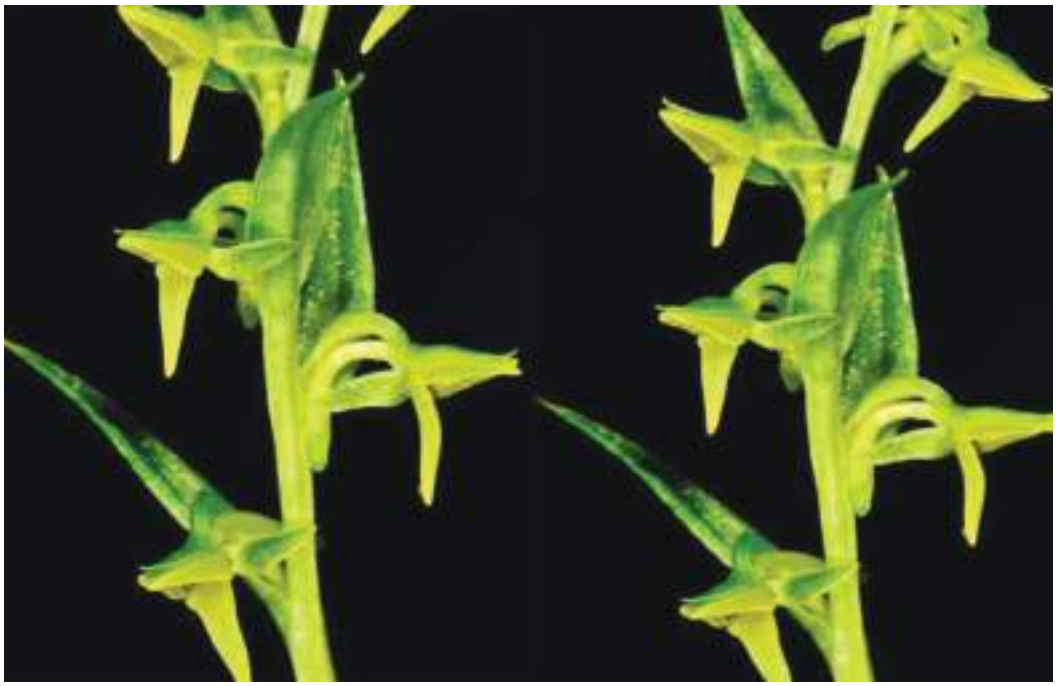
ORCHIDACEAE



Pholidota pallida Lindl.



Pholidota protracta J. D. Hooker



Platanthera exelliana Soo.



Platanthera fuscescens (L.) Kraenzl.

ORCHIDACEAE



Platanthera latilabris Lindl.



Pleione formosana Hayata

ORCHIDACEAE



Pleione hookeriana (Lindl.) Rollisson



Pleione humilis (Sm.) D. Don.

ORCHIDACEAE



Pleione maculata (Lindl.) Lindl.



Pleione praecox (J.E. Sm.) D.Don.



Pleione saxicola S.C.Chen



Ponerorchis brevicalcarata (Finet) Soó

ORCHIDACEAE



Ponerorchis chusua (D.Don) Soó.



Ponerorchis cucullata (L.) X.H.Jin, Schuit. & W.T.Jin

ORCHIDACEAE



Ponerorchis graminifolia Rchb.f.



Ponerorchis schlechteri Perner & Y.B.Luo

ORCHIDACEAE



Satyrium nepalense var. *cilictum* (Lindl.) Hook.f.

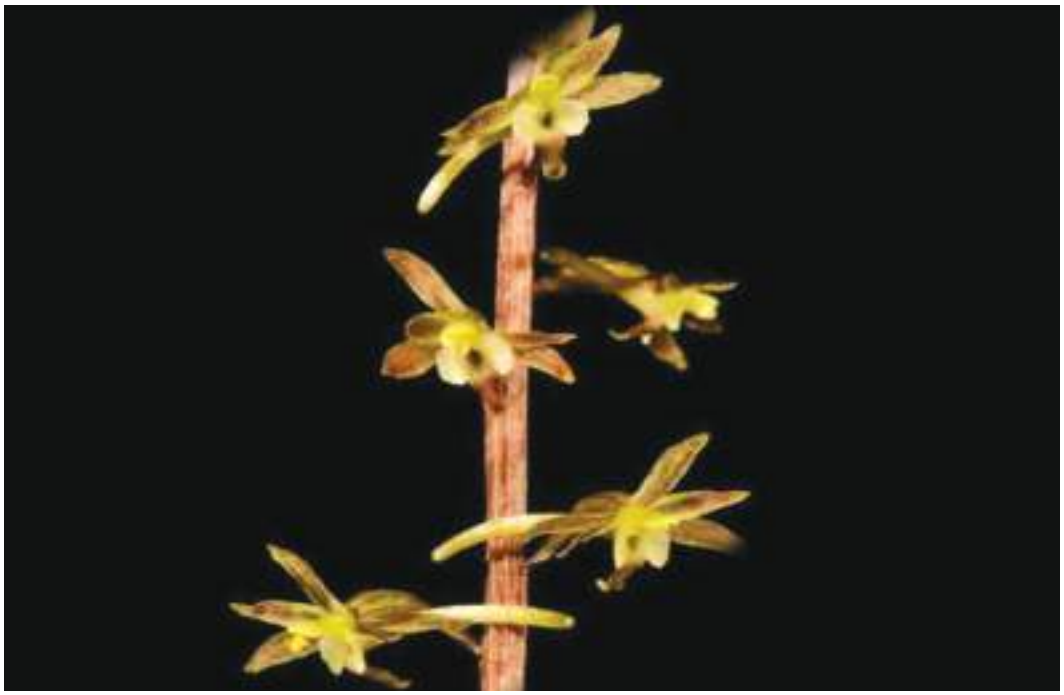


Spiranthes sinensis (Pers.) Ames

ORCHIDACEAE



Thrixspermum japonicum (Miq.) Rchb.f.



Tipularia josephi Lindl.

ORCHIDACEAE



Vandopsis undulata Lin. J.J.

OROBANCHACEAE Broomrape Family



Alectra avensis (Benth.) Merr.



Boschniakia glabra C.A.Mey



Boschniakia himalaica Hook. fil. & Thomson

OROBANCHACEAE



Boschniakia rossica (Cham. & Schltdl.) B.Fedtsch.



Lindenbergia muraria (D.Don) Brühl.



Orobanche alba Steph.



Pedicularis anserantha T.Yamaz.

OROBANCHACEAE



Pedicularis bella C. Marquand & Airy Shaw



Pedicularis bicornuta Klotzsch



Pedicularis bifida (Buch.-Ham.) Pennell



Pedicularis cheilanthifolia Schrenk

OROBANCHACEAE



Pedicularis chenocephala Diels.



Pedicularis clarkei Hook. fil.

OROBANCHACEAE



Pedicularis confertiflora Tsoong



Pedicularis corymbifera H. P. Yang

OROBANCHACEAE



Pedicularis cranolopha Maxim.



Pedicularis cryptantha Marquand & Shaw



Pedicularis decorissima Diels



Pedicularis diffusa Prain

OROBANCHACEAE



Pedicularis elwesii Hook.f.



Pedicularis fletcheri P.C.Tsoong

OROBANCHACEAE



Pedicularis flexuosa Hook. Fill.



Pedicularis furfuracea Bentham

OROBANCHACEAE



Pedicularis gracilis Tsoong



Pedicularis griniformis T.Yamaz.



Pedicularis groenlandica Retz.



Pedicularis hookeriana Benn

OROBANCHACEAE



Pedicularis hicksii Tsoong



Pedicularis inconspicua Tsoong

OROBANCHACEAE



Pedicularis integrifolia Hook.f.



Pedicularis lachnoglossa Hook. fil.

OROBANCHACEAE



Pedicularis longiflora Rudolph



Pedicularis megalantha D. Don

OROBANCHACEAE



Pedicularis megalochila H.L.Li.



Pedicularis microloba R.R.Mill

OROBANCHACEAE



Pedicularis mollis Benth.



Pedicularis monbeigiana Bonati, Bull.

OROBANCHACEAE



Peducularis oederi Hornemann



Pedicularis oliveriana Prain

OROBANCHACEAE



Pedicularis pantlingii Prain



Pedicularis pectinata Benth.

OROBANCHACEAE



Pedicularis prainiana Maxim.



Pedicularis przewalskii Maxim.

OROBANCHACEAE



Pedicularis pyramidata Royle Benth.



Pedicularis rhinanthoides (Bonati) Tsoong



Pedicularis rosea Wulfen



Pedicularis rostratocapitata Crantz.

OROBANCHACEAE



Pedicularis roylei (Prain) T. Yamazaki



Pedicularis scullyana Maxim.

OROBANCHACEAE



Pedicularis sanguilimbata R.R.Mill.



Pedicularis siphonantha D.Don

OROBANCHACEAE



Pedicularis siphonantha var. *siphonantha* D.Don



Pedicularis sylvatica L.



Pedicularis torta Maxim.



Pedicularis trichoglossa Hooker, Fl.

OROBANCHACEAE



Pedicularis variegata H.L. Li



Pedicularis verticillata L.

OROBANCHACEAE



Pedicularis wallichiana Steud.



Phtheirospermum tenuisectum Bureau & Franch

ORTHOTRICHACEAE Mosses Family



Macromitrium sulcatum Bridel

OXALIDACEAE Wood-Sorrel Family



Oxalis corniculata L.

OXALIDACEAE



Oxalis griffithii Edgew. & Hook.f.



Oxalis latifolia Kunth

OXALIDACEAE



Oxalis leucolepis Diels.

PAEONIACEAE Peony Family



Paeonia delavayi Franchet



Paeonia delavayi var. *lutea* Franch.



Paeonia veitchii Lynch

PAPAVERACEAE Poppy Family



Corydalis alpestris C. A. Meyer



Corydalis aurantiaca Ludlow & Stearn

PAPAVERACEAE



Corydalis calliantha D.G. Long.



Corydalis cashmeriana Royle.

PAPAVERACEAE



Corydalis casimiriana Duthie & Prain.



Corydalis chaerophylla DC.

PAPAVERACEAE



Corydalis crispa Prain



Corydalis curviflora subsp. *rosthornii* (Fedde) C. Y. Wu.

PAPAVERACEAE



Corydalis densispica C. Y. Wu



Corydalis dubia Prain

PAPAVERACEAE



Corydalis ecristata (Prain) D.G. Long



Corydalis flaccida Hook.f. & Thomson

PAPAVERACEAE



Corydalis flexuosa Franch



Corydalis hamata Franchet

PAPAVERACEAE



Corydalis juncea Wall



Corydalis kingdonis Airy Shaw, Bull.

PAPAVERACEAE



Corydalis lathyroides Prain.



Corydalis latiflora Hook. Fil. & Thomson

PAPAVERACEAE



Corydalis leptocarpa J. D. Hooker & Thomson



Corydalis linearioides Maxim

PAPAVERACEAE



Corydalis polygalina Hook. Fil. & Thomson



Corydalis meifolia Wall.

PAPAVERACEAE



Corydalis napuligera C.Y.Wu



Corydalis pachycentra Franchet

PAPAVERACEAE



Corydalis pseudodensispica Z.Y.Su & Lidén



Corydalis solida (L.) Clairv.

PAPAVERACEAE



Corydalis thyrsiflora Prain



Dicentra lichiangensis Fedde.

PAPAVERACEAE



Dicentra scandens D.Don



Dicentra spectabilis (L.) Fuku.

PAPAVERACEAE



Eschscholzia californica Cham



Hypecoum leptocarpum Hook. F. Thoms

PAPAVERACEAE



Meconopsis bella Prai

ENDEMIC: Paro and Thimphu



Meconopsis bhutanica T.Yoshida & Grey-Wilson

PAPAVERACEAE



Meconopsis concinna Prain



Meconopsis delavayi (Franchet) Prain

PAPAVERACEAE



Meconopsis grandis Prain



Meconopsis henrici Bureau & Franchet

PAPAVERACEAE



Meconopsis horridula Grey-Wilson



Meconopsis impedita Prain

PAPAVERACEAE



Meconopsis integrifolia (Maxim.) Franchet



Meconopsis lancifolia (Franchet) Prain

PAPAVERACEAE



Meconopsis paniculata Grey-Wilson



Meconopsis prattii Prain

PAPAVERACEAE



Meconopsis primulina Prain



Meconopsis punicea Maxim.

PAPAVERACEAE



Meconopsis racemosa Maxim.



Meconopsis sherriffii G.Taylor

PAPAVERACEAE



Meconopsis simplicifolia (D. Don) Walpers



Meconopsis sinuata Prain

PAPAVERACEAE



Meconopsis speciosa Prain



Meconopsis superba Prain

PAPAVERACEAE

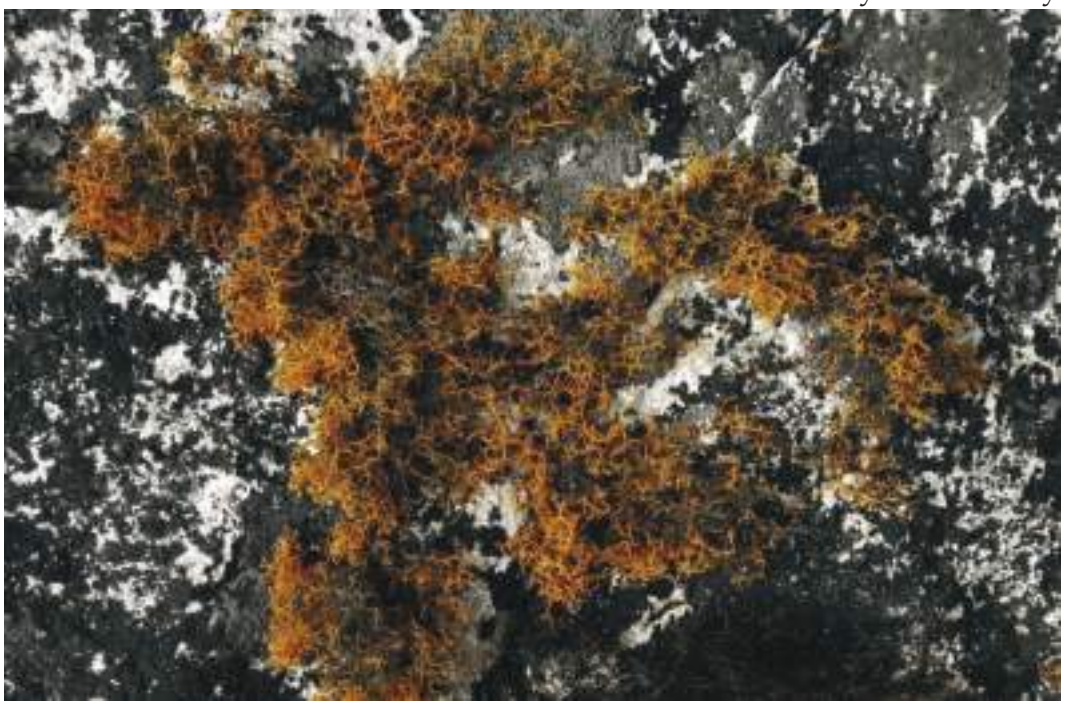


Papaver rhoeas L.



*Pseudofumaria alba (*Mill.*)* Lidén

PARMELIACEAE Lecanoromycetes Family



Cetraria islandica (L.) Ach.



Dolichousnea longissima (Ach.)

PASSIFLORACEAE Passion-flower Family



Passiflora caerulea L.

PELTIGERACEAE Lichen Family



Peltigera aphthosa (L.) Willd.



Peltigera horizontalis (Huds.) Baumg.



Peltigera lepidophora (Vainio) Bitter.

PELTIGERACEAE



Peltigera malacea (Ach.) Fun.



Peltigera polydactylon (Neck.) Hoffm.

PHRYMACEAE Lopseed Family



Erythranthe moschata (Lindl.) G.L. Nesom



Erythranthe nepalensis (Benth.) G.L.Nesom

PHRYMACEAE



Erythranthe tenella (Bunge) G.L.Nesom

PHYTOLACCACEAE Pokeweed Family



Phytolaca acinosa Roxb.

PHYTOLACCACEAE



Phytolacca polyandra Batalin

PINACEAE Pine Family



Abies densa Franch

PINACEAE



Cedrus deodara (Roxb.) G.Don



Larix griffithiana Carriere.

PINACEAE



Larix marschlinsii L.



Picea brachytyla (Franch.) E.Pritz.

PINACEAE



Picea spinulosa (Griff.) A.Henry



Pinus bhutanica Grierson.

PINACEAE



Pinus roxburghii Sargent.



Pinus wallichiana A.B. Jackson.

PINACEAE



Taxus baccata Linn.



Tsuga dumosa (D. Don) Eichler

PLANTAGINACEAE Plantain Family



Callitriche palustris Linn.



Callitriche stagnalis Scop.

PLANTAGINACEAE



Caltha palustris Lindl.



Caltha scaposa J. D. Hooker & Thomson

PLANTAGINACEAE



Caltha sinogracilis f. *rubriflora* (Bru. et Lau.) W. T. Wang.



Lagotis brachystachya Maxim.

PLANTAGINACEAE



Lagotis cashmeriana Royle Benth.



Lagotis clarkei Hook.f.



Lagotis crassifolia Prain



Lagotis globosa (Kurz) Hook. fil.

PLANTAGINACEAE



Lagotis integra W. W. Smith



Lagotis kunavurensis Rupr.

PLANTAGINACEAE



Lagotis minor (Willd.) Standl.



Linaria vulgaris Mill.

PLANTAGINACEAE



Neopicrorhiza scrophulariiflora Pennell. D.Y.Hong



Neopicrorhiza minima R.R. Mill.

PLANTAGINACEAE



Plantago erosa Wall.



Plantago depressa Willd.

PLANTAGINACEAE



Plantago lanceolate L.



Veronica alpina L.

PLANTAGINACEAE



Veronica cana Bentham



Veronica cephaloides Pennell

PLANTAGINACEAE



Veronica ciliate Fisch



Veronica himalensis D. Do



Veronica javanica Blume



Veronica lanuginosa Hook. fil.

PLANTAGINACEAE



Veronica persica Poir.



Veronica serpyllifolia L.

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