

Diversity and uses of flowering plants distributed in both Vietnam and Malaysia

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Abstract

The paper assessed the diversity of species, genera, families and classes of the flowering plants (Magnoliophyta) distributed in both Vietnam and Malaysia. Main contents of the study are building a list of plant species and evaluation of the diversity of taxa of Magnoliophyta. The study has enumerated 1840 species, 876 genera, 162 families, 2 classes of Magnoliophyta, distributed in both Vietnam and Malaysia. Diversity of useful plants with 2 classes, 150 families, 689 genera, 1213 species. Medicinal plants with 869 species (2 classes, 133 families, 553 genera). Plants for timber with 127 species (1 class, 39 families, 87 genera). Ornamental plants with 156 species (2 classes, 31 families, 104 genera). Edible plants (edible fruits, seeds) with 103 species (2 classes, 37 families, 78 genera). Plants for essential oil with 13 species (2 classes, 8 families, 12 genera). Vegetables with 92 species (2 classes, 44 families, 76 genera). Dyed plants with 31 species (1 class, 12 families, 20 genera). Plants for fibre with 3 species (2 classes, 3 families, 3 genera). Plants for food of animal and human with 79 species (2 classes, 15 families, 56 genera). A model built for research and development of those species based on comprehensive cooperations and supports from agriculture, construction, cosmetic, fashion, forestry, food, ornamental and pharmaceutical organizations. The results provide a lot of valuable information, contributing to the development of cooperation of Vietnam and Malaysia on plant diversity research and orientation for application.

Keywords: Magnoliophyta; Vietnam; Malaysia; Diversity; Development

1. Introduction

Scientific cooperations between Vietnam and Malaysia have been increasingly developed in recent years, including research on biodiversity in general and plant diversity in particular. In order to facilitate the support of Vietnamese scientists to study plant diversity in Malaysia, as well as contribute to the development and application of useful plant species, while most plant taxonomists of Vietnam only know about Vietnamese plants, it is necessary to select a list of plant species that are distributed in both Vietnam and Malaysia. For that reason, we have studied on the diversity of taxon ranks of Magnoliophyta distributed in both Vietnam and Malaysia.

Objectives: Compare taxa of Magnoliophyta (also known as flowering plants) which are distributed in both Vietnam and Malaysia, contributing to the development of cooperation for the 2 countries on plant diversity research and orientation for application.

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2. Material and methods

2.1 The material studied

Specimens stored at the herbaria (HN herbarium of Institute of Ecology and Biological Resources (IEBR), Vietnam Academy of Science and Technology (VAST); VNM herbarium of Institute of Tropical Biology (ITB), VAST).

2.2 Research subjects

The plant taxa of the Magnoliophyta distributed in both Vietnam and Malaysia.

2.3 Research content

Building a list of plant species belonging to the Magnoliophyta distributed in both Vietnam and Malaysia; Evaluation of the diversity of taxon levels in the Magnoliophyta distributed in both Vietnam and Malaysia (species, genera, families, classes).

2.4 Research methods

- Establish list of species in both Vietnam and Malaysia based on references [1-51], investigations and study on specimens at the herbaria. Identify species based on the morphological comparison method. Scientific names of species and families according to the Checklist of plants in Vietnam (Nguyen TB, 2003, 2005) [1]. Names of 49 diseases according to Vo VC (2012) [26].
- Coding uses/diseases: C: Ornamental plant; Ed: Edible (fruit, seed); Es: Essential oil; G: Timber; Nh: Dye; S: Fibre; R: Vegetable; T: Medicinal plant; ThA: Food for animal.

1: Tranquillizer; 2: Vaginitis; 3: Paralytic; 4: Obese; 5: Flu; 6: Eyesore; 7: Toothache; 8: Detoxify; 9: Syphilis; 10: Asthma; 12: Gonorrhoea; 13: Dysentery; 14: Galactopoietic; 15: Diuretic; 16: Mumps; 17: Snake bite; 18: Urolithiasis; 19: Malaria; 20: Rheumatism; 21: Diabetes; 22: Heart and blood pressure diseases; 23: Hemorrhoids; 24: Cancer; 25: Gastritis; 26: Hepatitis; 27: Keratitis; 28: Sore throat; 29: Encephalitis; 30: Nephritis; 31: Sinusitis; 32: Sterile; 33: Cirrhosis; 34: Brain hemorrhage; 35: Pimple; 36: Hemostatic; 37: Fracture; 38: Burned; 39: Pneumonia; 40: Bronchitis; 41: Hurt fall; 42: Irregular menstruation; 43: Kidney stone; 44: Measles; 45: Headache; 46: Inflammatory bowel; 47: Oedema; 48: Otitis; 49: Pertussis; 50: Scrofulous (Note: 11: a disease is not mentioned, therefore, there are 49 diseases / medical uses).

- Coding families, order of families according to the Checklist of plants in Vietnam (Nguyen TB, 2003, 2005) (appendix 1) [1].
- Investigations in Vietnam from 2007 to 2021 based on cooperation between Institute of Ecology and Biological Resources (IEBR) and Korea Research Institute of Bioscience and Biotechnology (KRIBB). Study on 11826 specimens of 3336 species collected from the investigations.
- Study on 19369 specimens of 5166 species stored at herbaria of Vietnam (HN, VNM).
- Application of Microsoft Access for data management and analysis.
- Based on the plant data of Magnoliophyta in Vietnam, statistic species distributed in Malaysia.
- Based on the plant data of Magnoliophyta in some neighboring countries, perform additional statistics of species also distributed in Vietnam and Malaysia.
- Compile a list of plant species belonging to Magnoliophyta distributed in both Vietnam and Malaysia. Collect data on their use values.
- Nomenclature correction according to Checklist of Plant Species of Vietnam, vol. 2, 3 (Nguyen TB (editor) et al., 2003, 2005) [1], <http://www.theplantlist.org> [49], <http://www.plantsoftheworldonline.org> [50], www.tropicos.org [51].
- Evaluation of the diversity of plant taxon levels and the uses for Magnoliophyta (species, genera, families, classes).
- Proposing some solutions for development.

3. Results and discussion

3.1 List of flowering plants distributed in both Vietnam and Malaysia (appendix 2)

Diversity of species, genera, families and classes of Magnoliophyta distributed in both Vietnam and Malaysia

The study has enumerated 1840 species, 876 genera, 162 families, 2 classes of Magnoliophyta, distributed in both Vietnam and Malaysia.

3.1.1 Diversity of classes (2 classes)

Magnoliopsida has 1222 species, accounting for 66.4% of the total species. Liliopsida has 618 species, accounting for 33.6% of the total species.

3.1.2 Diversity of families (162 families)

The 10 species-rich families are ORCHIDACEAE (208 species, 11.3%), CYPERACEAE (154 species, 8.4%), POACEAE (118 species, 6.4%), FABACEAE (107 species, 5.8%), EUPHORBIACEAE (93 species, 5.1%), RUBIACEAE (75 species, 4.1%), MORACEAE (71 species, 3.9%), ASTERACEAE (45 species, 2.4%), APOCYNACEAE (34 species, 1.8%), SCROPHULARIACEAE (33 species, 1.8%). The 11th family, MELIACEAE, also has 33 species, 1.8%. A total of 10 families includes 938 species, 51.0%.

3.1.3 Diversity of genera (876 genera)

The 10 genera with the highest number of species are *Ficus* (55 species, 2.99%), *Fimbristylis* (39 species, 2.12%), *Dendrobium* (27 species, 1.47%), *Cyperus* (23 species, 1.25%), *Bulbophyllum* (17 species, 0.92%), *Desmodium* (16 species, 0.87%), *Hedyotis* (15 species, 0.82%), *Aglaia* (13 species, 0.71%), *Carex* (13 species, 0.71%), *Syzygium* (13 species, 0.71%). The 11th genus, *Crotalaria*, also has 13 species (0.71%). A total of 10 genera including 231 species, accounting for 12.55%.

3.1.4 Diversity of useful plants (2 classes, 150 families, 689 genera, 1213 species)

Diversity of classes

There are 2 classes. Magnoliopsida has 918 species, Liliopsida has 295 species.

Diversity of families

Among 150 families of useful plants, the 10 families with the highest number of species are FABACEAE (97 species), ORCHIDACEAE (85 species), EUPHORBIACEAE (64 species), POACEAE (60 species), POACEAE (60 species), CYPERACEAE (58 species), RUBIACEAE (52 species), MORACEAE (49 species), ASTERACEAE (43 species), APOCYNACEAE (27 species), VERBENACEAE (26 species). Each of the remaining families has less than 26 species.

Diversity of genera

Among 689 useful genera, the 10 genera with the highest number of species are *Ficus* 36 species, *Dendrobium* 16 species, *Desmodium* 14 species, *Fimbristylis* 12 species, *Crotalaria* 12 species, *Cyperus* 10 species, *Citrus* 9 species, *Hedyotis* 9 species, *Syzygium* 9 species, *Symplocos* 8 species. Each of the other genera has less than 8 species.

Diverse in use value

- Medicinal plants 869 species (2 classes, 133 families, 553 genera).

10 families with the highest number of species: FABACEAE 81 species, EUPHORBIACEAE 51 species, RUBIACEAE 41 species, ASTERACEAE 37 species, ORCHIDACEAE 33 species, CYPERACEAE 32 species, MORACEAE 30 species, POACEAE 27 species, APOCYNACEAE 26 species, VERBENACEAE 25 species. Each of the other families has less than 25 species.

10 genera with the highest number of species: *Ficus* 20 species, *Crotalaria* 12 species, *Desmodium* 12 species, *Hedyotis* 9 species, *Citrus* 8 species, *Lindernia* 7 species, *Alpinia* 6 species, *Ardisia* 6 species, *Clerodendrum* 6 species, *Dendrobium* 6 species. Each of the 2 genera *Fimbristylis* and *Phyllanthus* has 6 species. Each of the remaining genera has less than 6 species.

- Plants for timber 127 species (1 class, 39 families, 87 genera).

10 families with the highest number of species: EUPHORBIACEAE 23 species, MELIACEAE 10 species, DIPTEROCARPACEAE 9 species, LAURACEAE 8 species, RHIZOPHORACEAE 7 species, MIMOSACEAE 6 species,

CAESALPINIACEAE 5 species, FABACEAE 5 species, SYMPLOCACEAE 5 species, APOCYNACEAE 4 species (MYRTACEAE). Each of the other families has less than 4 species.

10 genera with the highest number of species: *Symplocos* 5 species, *Aglaia* 4 species, *Bruguiera* 4 species, *Cinnamomum* 4 species, *Syzygium* 4 species, *Albizia* 3 species, *Alstonia* 3 species, *Aporosa* 3 species, *Bridelia* 3 species, *Dillenia* 3 species. 4 genera also have 3 species: *Dysoxylum*, *Elaeocarpus*, *Shorea*, *Vatica*. Each of the other genera has less than 3 species.

- Ornamental plants 156 species (2 classes, 31 families, 104 genera).

10 families with the highest number of species: ORCHIDACEAE 70 species, FABACEAE 9 species, MORACEAE 9 species, ARECACEAE 7 species, CAESALPINIACEAE 7 species, ASTERACEAE 6 species, LILIACEAE 5 species, ACANTHACEAE 4 species, VERBENACEAE 4 species, ZINGIBERACEAE 4 species. Each of the other families has less than 4 species.

10 genera with the highest number of species: *Dendrobium* 15 species, *Ficus* 7 species, *Coelogyne* 6 species, *Bulbophyllum* 4 species, *Cymbidium* 4 species, *Clerodendrum* 3 species, *Erythrina* 3 species, *Ixora* 3 species, *Spathoglottis* 3 species, *Alpinia* 2 species. The other 12 genera also have 2 species: *Alpinia*, *Calanthe*, *Cassia*, *Dracaena*, *Eria*, *Eulophia*, *Habenaria*, *Nervilia*, *Phaius*, *Pholidota*, *Plectranthus*, *Plumbago*, *Saraca*. Each of the remaining genera has 1 species.

- Edible plants (edible fruits, seeds) 103 species (2 classes, 37 families, 78 genera).

10 families with the highest number of species: MORACEAE 16 species, EUPHORBIACEAE 8 species, MYRTACEAE 7 species, SAPINDACEAE 7 species, RUBIACEAE 6 species, RUTACEAE 6 species, FLACOURTIACEAE 5 species, ANACARDIACEAE 4 species, SAPOTACEAE 4 species, VERBENACEAE 4 species. Each of the other families has less than 4 species.

10 genera with many species: *Ficus* 5 species, *Syzygium* 5 species, *Artocarpus* 4 species, *Flacourtia* 3 species, *Nephelium* 3 species, *Alpinia* 2 species, *Antidesma* 2 species, *Canthium* 2 species, *Chrysophyllum* 2 species, *Citrus* 2 species. Each of the 5 other genera also has 2 species: *Clausena*, *Mangifera*, *Morus*, *Rubus*, *Streblus*. Each of the remaining genera has 1 species.

- Plants for essential oil 13 species (2 classes, 8 families, 12 genera).

5 families with the highest number of species are ASTERACEAE, CYPERACEAE, LAURACEAE, MELIACEAE, ZINGIBERACEAE. Each of the 3 families has 1 species: LAMIACEAE, MYRTACEAE, POACEAE.

12 genera, of which *Cinnamomum* has 2 species, Each of the remaining 11 genera has 1 species.

- Vegetables 92 species (2 classes, 44 families, 76 genera).

10 families with the highest number of species: ASTERACEAE 21 species, EUPHORBIACEAE 8 species, MORACEAE 6 species, CUCURBITACEAE 5 species, SCROPHULARIACEAE 4 species, APOCYNACEAE 3 species, ARACEAE 3 species, APIACEAE 2 species, CAESALPINIACEAE 2 species, FABACEAE 2 species. 2 other families with 2 species are MIMOSACEAE, RUBIACEAE. Each of the remaining families has 1 species.

10 genera with the highest number of species: *Ficus* 6 species, 2 genera with 3 species, *Blumea*, *Limnophila*. 7 genera with 2 species are *Acacia*, *Artemisia*, *Claoxylon*, *Gymnopetalum*, *Phyllanthus*, *Rauvolfia*, *Zehneria*. Each of the remaining genera has 1 species.

- Dyed plants 31 species (1 class, 12 families, 20 genera).

12 families: RHIZOPHORACEAE 8 species, MIMOSACEAE 5 species, CAESALPINIACEAE 4 species, 2 genera with 3 species are COMBRETACEAE, EUPHORBIACEAE, FABACEAE 2 species. Each of the other families has 1 species.

12 genera: *Bruguiera* 4 species, *Albizia* 3 species, *Terminalia* 3 species, 4 genera with 2 species are *Caesalpinia*, *Ceriops*, *Excoecaria*, *Rhizophora*. Each of the remaining genera has 1 species.

- Plants for fibre 3 species (2 classes, 3 families, 3 genera).

Each of the 3 families has 1 species: MORACEAE, PANDANACEAE, STERCULIACEAE.

Each of the 3 genera with 1 species: *Ficus*, *Pandanus*, *Sterculia*.

- Plants for food of animal and human with 79 species (2 classes, 15 families, 56 genera).

15 families: POACEAE 25 species, FABACEAE 20 species, CYPERACEAE 18 species, 4 families have 2 species ASTERACEAE, COMMELINACEAE, MIMOSACEAE, MORACEAE. Each of the other families has 1 species.

56 genera: *Cyperus* has 6 species, 2 genera have 5 species *Desmodium*, *Fimbristylis*. 10 genera have 2 species *Albizia*, *Capillipedium*, *Cyrtococcum*, *Dendrocalamus*, *Indigofera*, *Panicum*, *Pueraria*, *Sesbania*, *Setaria*, *Sporobolus*. Each of the other genera has 1 species.

3.2 Proposing some solutions for development (figure 1)

Although the proposals are theoretically, but if the cooperations and comprehensive support from many agencies are achieved, the development of the plants will bring positive results. However, in our opinion, it is necessary to have a group that understands plants, obtains the results of this study, and connects cooperations, supports of agencies to uses of plants.

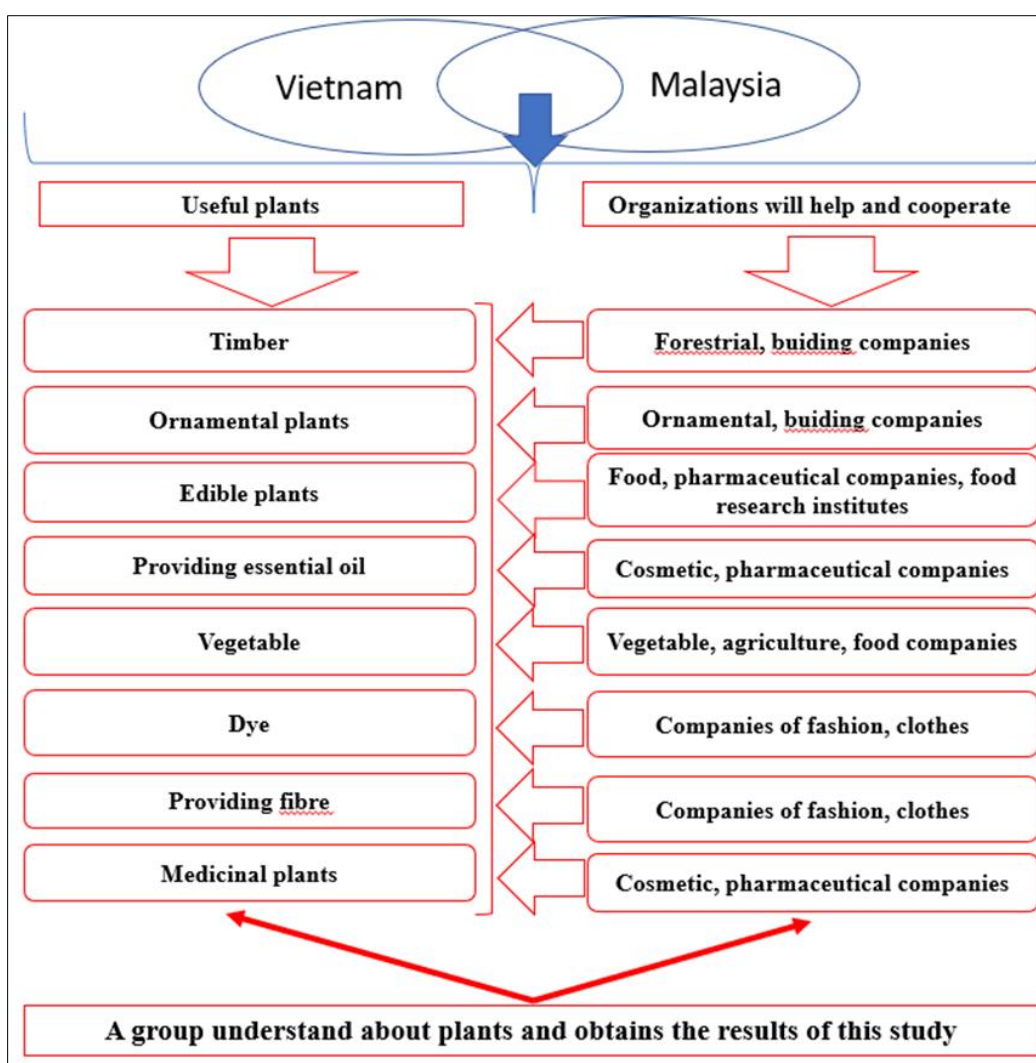


Figure 1 Cooperations and comprehensive supports from many organizations

Appendixes

Appendix 1. Coding families, order of families according to the Checklist of plants in Vietnam (Nguyen TB, 2003, 2005) [1]. Families coded from 1 to 219 belong to Magnoliopsida, families coded from 220 to 265 belong to Liliopsida.

1: MAGNOLIACEAE. 2: ANNONACEAE. 5: HERNANDIACEAE. 6: CHLORANTHACEAE. 8: LAURACEAE. 9: SAURURACEAE. 10: PIPERACEAE. 11: ARISTOLOCHACEAE. 14: NYMPHAEACEAE. 16: CERATOPHYLLACEAE. 17: ILLICACEAE. 19: NELUMBONACEAE. 21: SARGENTODOXACEAE. 22: MENISPERMACEAE. 23: RANUNCULACEAE. 24: BERBERIDACEAE. 25: PAPAVERACEAE. 26: FUMARIACEAE. 28: ALTINGIACEAE. 29: PLATANACEAE. 31: ULMACEAE. 32: MORACEAE. 33: CANNABACEAE. 34: URTICACEAE. 35: CASUARINACEAE. 36: FAGACEAE. 37: BETULACEAE. 40: JUGLANDACEAE. 42: NYCTAGINACEAE. 43: MOLLUGINACEAE. 47: PORTULACEAE. 48: BASELLACEAE. 49: CARYOPHYLLACEAE. 50: AMARANTHACEAE. 51: CHENOPODIACEAE. 52: POLYGONACEAE. 54: DILLENIACEAE. 57: DIPTEROCARPACEAE. 59: THEACEAE. 62: CLUSIACEAE. 63: HYPERICACEAE. 64: ELATINACEAE. 65: FLACOURTIACEAE. 67: VIOLACEAE. 70: PASSIFLORACEAE. 72: CARICACEAE. 73: CUCURBITACEAE. 75: BEGONIACEAE. 76: CAPPARACEAE. 78: BRASSICACEAE. 80: SALICACEAE. 87: STYRACACEAE. 88: SYMPLOCACEAE. 89: EBENACEAE. 90: SAPOTACEAE. 91: MYRSINACEAE. 92: PRIMULACEAE. 94: TILIACEAE. 95: STERCULIACEAE. 96: BOMBACACEAE. 97: MALVACEAE. 100: EUPHORBIACEAE. 102: THYMELEACEAE. 105: ITEACEAE. 106: HYDRANGEACEAE. 109: CRASSULACEAE. 111: ROSACEAE. 113: MIMOSACEAE. 114: CAESALPINIACEAE. 115: FABACEAE. 116: CONNARACEAE. 120: LYTHRACEAE. 123: RHIZOPHORACEAE. 125: COMBRETACEAE. 126: MYRTACEAE. 127: MELASTOMACEAE. 128: ONAGRACEAE. 131: HALORAGACEAE. 132: ANACARDIACEAE. 133: SIMAROUBACEAE. 134: RUTACEAE. 135: MELIACEAE. 136: STAPHYLEACEAE. 138: SAPINDACEAE. 139: HIPPOCASTANACEAE. 141: SABIACEAE. 143: LINACEAE. 148: OXALIDACEAE. 151: BALSAMINACEAE. 152: POLYGALACEAE. 156: AUCUBACEAE. 157: ALANGIACEAE. 161: ARALIACEAE. 162: APIACEAE. 163: AQUIFOLIACEAE. 164: ICACINACEAE. 166: CELASTRACEAE. 168: RHAMNACEAE. 169: VITACEAE. 170: LEEACEAE. 171: OLEACEAE. 174: OPILIACEAE. 175: ERYTHROPALACEAE. 176: CARDIOPTERIDACEAE. 179: LORANTHACEAE. 182: ELAEAGNACEAE. 183: PROTEACEAE. 184: CAPRIFOLIACEAE. 185: VALERIANACEAE. 187: LOGANIACEAE. 189: APOCYNACEAE. 190: ASCLEPIADACEAE. 191: GENTINIACEAE. 192: MENYANTHACEAE. 193: RUBIACEAE. 195: CONVULVACEAE. 196: CUSCUTACEAE. 197: HYDROPHYLLACEAE. 198: BORAGINACEAE. 199: SOLANACEAE. 200: BUDDLEJACEAE. 201: SCROPHULARIACEAE. 202: BIGNONIACEAE. 203: PEDALIACEAE. 205: GESNERIACEAE. 207: LENTIBULARIACEAE. 209: ACANTHACEAE. 211: VERBENACEAE. 212: LAMIACEAE. 213: CALLITRICHACEAE. 214: CAMPANULACEAE. 219: ASTERACEAE. 221: ALISMACEAE. 229: CONVALLARIACEAE. 229: LILIACEAE. 230: HYPOXIDACEAE. 232: SMILACACEAE. 233: STEMONACEAE. 234: DIOSCOREACEAE. 235: TACCACEAE. 238: IRIDACEAE. 244: COSTACEAE. 245: ZINGIBERACEAE. 246: CANNACEAE. 247: MARANTACEAE. 248: ORCHIDACEAE. 249: JUNCACEAE. 250: CYPERACEAE. 251: BROMELIACEAE. 252: COMMELINACEAE. 259: POACEAE. 260: ARECACEAE. 261: ARACEAE. 262: LEMNACEAE. 265: TYPHACEAE.

Appendix 2. Data of flowering plants in both Vietnam and Malaysia for each species are "Coded family-Scientific name-Coded Use (present or absent)- Coded Medical value (present or absent) /"

115-Abrus precatorius- T 35 / 115-Abrus pulchellus- T 15 20 26 / 113-Acacia concinna- T Ed R / 113-Acacia donnaiensis- / 113-Acacia pennata- T R 17 / 113-Acacia pluricapitata- T 17 / 100-Acalypha grandis- T / 100-Acalypha lanceolata- T / 100-Acalypha siamensis- T 15 / 248-Acampe rigida- C 17 37 41 / 161-Acanthopanax lasiogyne- T / 161-Acanthopanax trifoliatus- T 2 18 20 32 35 41 46 / 248-Acanthophippium striatum- / 209-Acanthus ebracteatus- T / 252-Aclisia secundiflora- / 126-Acmena acuminatissima- Ed / 248-Acriopsis indica- / 248-Acriopsis javanica- / 212-Acrocephalus indicus- T Ed 15 / 259-Acroceras zizanioides- / 113-Adenantha microsperma- G T C Nh 13 / 113-Adenantha pavonina- G T 20 / 70-Adenia cordifolia- / 70-Adenia parviflora- T / 70-Adenia penangiana- / 248-Adenoncos vesiculosa- / 201-Adenosma caeruleum- T 3 17 20 26 / 201-Adenosma hirsutum- / 201-Adenosma indiana- T 46 / 201-Adenosma javanicum- / 219-Adenostemma lavenia- T R 17 / 59-Adinandra hainanensis- T / 59-Adinandra integerrima- T / 91-Aegiceras corniculatum- T / 206-Aeginetia indica- T 17 21 28 35 / 248-Aerides odorata- T C 17 / 205-Aeschynanthus longicaulis- C / 115-Aeschynomene indica- T / 115-Aganope thyrsoflora- T / 189-Aganosma acuminata- T / 116-Agelaea macrophylla- T 20 / 219-Ageratum conyzoides- T ThA 31 / 135-Aglaiia argentea- G / 135-Aglaiia crassinervia- / 135-Aglaiia elaeagnoidea- G T / 135-Aglaiia hiernii- / 135-Aglaiia lawii- G / 135-Aglaiia leptantha- / 135-Aglaiia macrocarpa- / 135-Aglaiia odorata- T C Es 10 41 / 135-Aglaiia odoratissima- / 135-Aglaiia oligophylla- G / 135-Aglaiia rufinervis- / 135-Aglaiia silvestris- T Ed 17 / 135-Aglaiia tomentosa- / 261-Aglaonema brevispathum- / 261-Aglaonema marantifolium- / 100-Agrostistachys indica- / 133-Ailanthus triphysa- G T 2 13 / 157-Alangium ridleyi- / 113-Albizia chinensis- G T Nh 17 / 113-Albizia corniculata- T C 17 / 113-Albizia lebbekoides- G T Nh 17 / 113-Albizia lucidior- ThA / 113-Albizia procera- G T Nh ThA 17 / 100-Alchornea rugosa- T / 201-Alectra arvensis- T 26 41 / 100-Aleurites moluccana- G T / 229-Allium odorum- T R 2 / 138-Allophylus cobbe- T / 259-Alloteropsis semialata- / 261-Alocasia evrardii- / 261-Alocasia indica- / 261-Alocasia longiloba- T R / 245-

Alpinia chinensis- T 20 42 / 245-*Alpinia conchigera*- T 20 45 / 245-*Alpinia galanga*- T Ed 7 8 13 / 245-*Alpinia latilabris*- / 245-*Alpinia malaccensis*- T C Ed / 245-*Alpinia mutica*- T / 245-*Alpinia pinnanensis*- T C / 189-*Alstonia angustifolia*- G T / 189-*Alstonia macrophylla*-G T / 189-*Alstonia spathulata*-G T / 28-*Altingia excelsa*- T 10 19 / 115-*Alysicarpus bupleurifolius*- ThA / 252-*Amischotolype mollissima*- / 245-*Amomum aculeatum*- / 245-*Amomum biflorum*- T Es / 245-*Amomum lappaceum*- T / 245-*Amomum testaceum*- T / 169-*Ampelocissus barbata*- / 169-*Ampelocissus polythyrsa*- T 20 / 261-*Anadendrum angustifolium*- / 261-*Anadendrum latifolium*- C / 261-*Anadendrum montanum*- T R 17 19 / 58-*Ancistrocladus tectorius*- T / 209-*Andrographis paniculata*- T 8 11 13 28 35 / 212-*Anisochilus pallidus*- T 17 20 43 / 189-*Anodendron manubriatum*- T / 248-*Anoetochilus brevistylus*- / 248-*Anoetochilus setaceus*- T C 20 25 41 / 2-*Anomianthus dulcis*- T Ed / 32-*Antiaris toxicaria*- T Ed 13 / 100-*Antidesma acidum*- T / 100-*Antidesma bunius*- T Ed / 100-*Antidesma ghaesembilla*- T Ed R / 100-*Antidesma montanum*- T / 100-*Antidesma thwaitesianum*- G T / 100-*Antidesma velutinosum*- / 135-*Aphanamixis grandiflora*- T 17 / 135-*Aphanamixis polystachya*- T 20 / 248-*Aphyllorchis montana*- / 259-*Apluda mutica*- T ThA 17 / 259-*Apocopis courtallumensis*- / 100-*Aporosa dioica*-G T Ed / 100-*Aporosa planchoniana*-G / 100-*Aporosa tetrapleura*-G / 100-*Aporosa wallichii*- / 248-*Apostasia nuda*- / 248-*Apostasia odorata*- / 248-*Apostasia wallichii*- / 248-*Appendicula cornuta*- T C 17 / 248-*Appendicula reflexa*- / 102-*Aquilaria malaccensis*- T 17 / 248-*Arachnis hookeriana*- / 248-*Arachnis maingayi*- C / 161-*Aralia armata*- T R 17 19 20 26 28 30 35 47 / 161-*Aralidium pinnatifidum*- T / 113-*Archidendron clypearia*-G T Nh / 91-*Ardisia andamanica*- / 91-*Ardisia chinensis*- / 91-*Ardisia colorata*- T 12 / 91-*Ardisia crenata*- T Ed 37 41 / 91-*Ardisia crispa*- T R 7 13 35 / 91-*Ardisia elegans*- T 41 / 91-*Ardisia elliptica*- / 91-*Ardisia insularis*- / 91-*Ardisia quinquegona*- T 7 / 91-*Ardisia solanacea*- T 13 / 91-*Ardisia villosa*- T 41 / 260-*Areca triandra*- T C / 260-*Arenga pinnata*- T C 15 / 193-*Argostemma verticillatum*- / 198-*Argusia argentea*- T 17 / 195-*Argyreia lanceolata*- / 195-*Argyreia malabarica*- T / 259-*Aristida chinensis*- / 259-*Aristida cumingiana*- / 201-*Artanema longifolium*- T 6 9 18 20 / 219-*Artemisia carvifolia*- T R / 219-*Artemisia vulgaris*- T Es R 20 / 32-*Artocarpus gomezianus*- Ed / 32-*Artocarpus integer*- T Ed 1 14 22 / 32-*Artocarpus lowii*- / 32-*Artocarpus nitidus*- T Ed / 32-*Artocarpus rigidus*-G T Ed 17 / 248-*Arundina graminifolia*- T C 17 20 26 47 / 138-*Arytera littoralis*- / 11-*Asarum blumei*- T 40 / 248-*Ascocentrum miniatum*- C / 209-*Asystasia gangetica*- T C 8 / 134-*Atalantia ceylanica*- / 134-*Atalantia monophylla*- T 3 / 134-*Atalantia roxburghiana*- T Ed / 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10-Piper penangense- / 10-Piper sarmentosum- T 7 15 19 20 / 42-Pisonia umbellifera- T 21 22 / 261-Pistia stratiotes- T ThA 35 / 90-Planchonella obovata- T / 248-Platanthera angustata- / 164-Platea latifolia- T 17 / 260-Plectocomiopsis geminiflora- ThA / 212-Plectranthus rotundifolius- C / 212-Plectranthus scutellarioides- T C 8 17 / 166-Pleurostyliia opposita- T / 219-Pluchea indica- T 20 37 / 53-Plumbago auriculata- C / 53-Plumbago zeylanica- T C 17 / 248-Podochilus microphyllus- / 259-Pogonatherum paniceum- T / 212-Pogostemon auricularius- T 17 20 / 212-

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126-Syzygium chloranthum- / 126-Syzygium cinereum-G / 126-Syzygium claviflorum-G / 126-Syzygium cuminii- T Ed 10 15 21 / 126-Syzygium grande-G / 126-Syzygium jambos- T Ed Nh 6 13 21 / 126-Syzygium lineatum- / 126-Syzygium malaccense- T Ed / 126-Syzygium malayanum- / 126-Syzygium oblatum- / 126-Syzygium polyanthum- T Ed 13 / 126-Syzygium syzygioides- Ed / 126-Syzygium zeylanicum-G T R 9 13 20 / 189-Tabernaemontana corymbosa- / 189-Tabernaemontana crispa- / 189-Tabernaemontana pandacaqui- / 189-Tabernaemontana pauciflora- T / 189-Tabernaemontana peduncularis- / 235-Tacca chantrieri- T 7 20 22 26 / 235-Tacca integrifolia- T / 235-Tacca leontopetaloides- T / 235-Tacca palmata- T 17 / 115-Tadehagi triquetrum- T 13 26 28 30 46 / 248-Taeniophyllum obtusum- / 248-Taeniophyllum pahangense- / 248-Tainia pauciflora- / 219-Taraxacum officinale- T R 6 17 35 43 / 193-Tarena asiatica- T / 95-Tarrietia javanica- / 179-Taxillus chinensis- T 20 22 / 179-Taxillus ferrugineus- T 22 / 179-Taxillus 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248-Thrixspermum merguense- / 248-Thrixspermum pauciflorum- / 248-Thrixspermum trichoglottis- / 259-Thuarea involuta- T ThA 45 / 209-Thunbergia fragrans- T / 209-Thunbergia laurifolia- T C / 248-Thunia alba- T C 17 25 41 / 193-Timonius jambosella- / 22-Tinomisium petiolare- T 20 41 / 135-Toona microcarpa- T / 135-Toona surenii-G T 13 19 / 201-Torenia flava- T / 201-Torenia violacea- T 5 / 31-Trema angustifolia- T 41 / 31-Trema cannabina- T / 161-Trevesia burckii- T / 135-Trichilia connaroides- T 20 / 198-Trichodesma zeylanicum- / 248-Trichoglottis lanceolaria- / 248-Trichoglottis retusa- / 73-Trichosanthes cucumerina- T 35 / 73-Trichosanthes tricuspidata- T R 35 45 / 73-Trichosanthes villosa- T / 248-Trichotomia microphylla- T 17 / 248-Trichotomia pulvinata- / 248-Trichotomia velutina- / 250-Tricostularia undulata- / 36-Trigonobalanus verticillata- T 13 / 100-Trigonostemon longifolius- T / 32-Trophis scandens- T C Ed ThA 17 / 248-Tropidia angulosa- / 248-Tropidia curculigoides- T 32 / 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4. Conclusion

The paper assessed the diversity of species, genera, families and classes of the Magnoliophyta distributed in both Vietnam and Malaysia. The results provide a lot of valuable information, contributing to the development of cooperation of Vietnam and Malaysia on plant diversity research and orientation for application.

Compliance with ethical standards

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Disclosure of conflict of interest

All authors have no conflict of interests to declare.

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