Hamamelidaceae (& Altingiaceae)

***Hamamelis* study weekend IDS**

Arboretum Kalmthout, Belgium

1 & 2 February 2014

Hamamelidaceae (& Altingiaceae)

vegetative key

to species

in cultivation

Morphologically very diverse genera.
With number of species in this key:

Altingia* [3]
Corylopsis [10]
Disanthus [1]
Distylium [4]
Exbucklandia [1]
Fortunearia [1]
Fothergilla [2]
Hamamelis [6]
Liquidambar* [5]
Loropetalum [1]
Parrotia [2]
Parrotiopsis [1]
Rhodoleia [1]
Sinowilsonia [1]
×***Sycoparrotia*** [1]
Sycopsis [1]
Trichocladus [2]

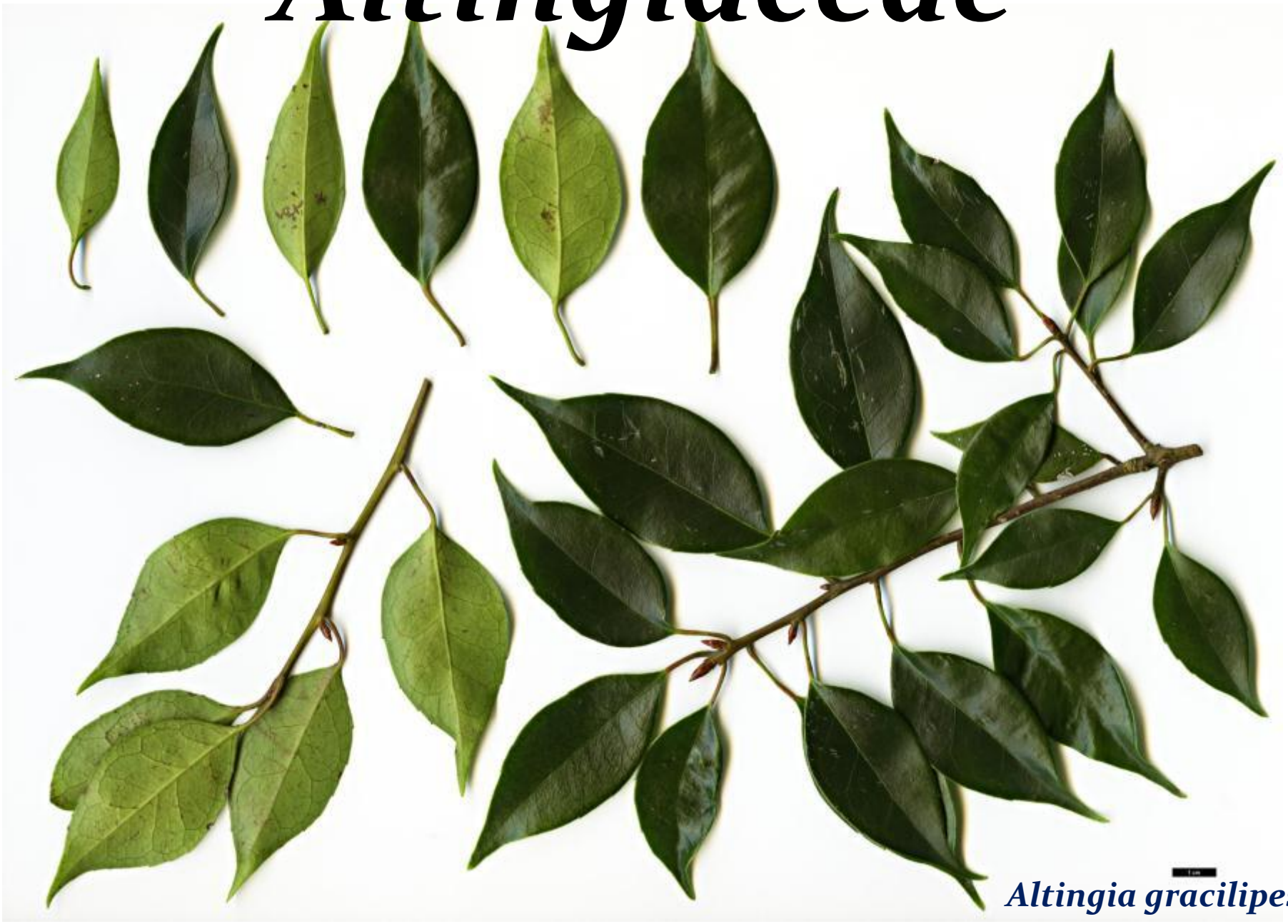
(Altingiaceae*)

key to families

Altingiaceae

Hamamelidaceae

Altingiaceae



Altingia gracilipes

Altingiaceae

bruised lamina with sharp scent

Altingia gracilipes

Altingiaceae

bruised lamina with sharp scent

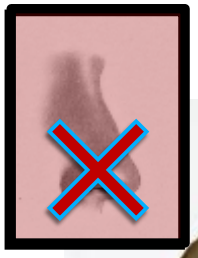
leaf arrangement spirally

Altingia gracilipes

Hamamelidaceae

Loropetalum chinense var. ***rubrum***

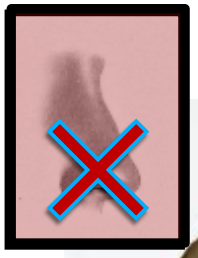
Hamamelidaceae



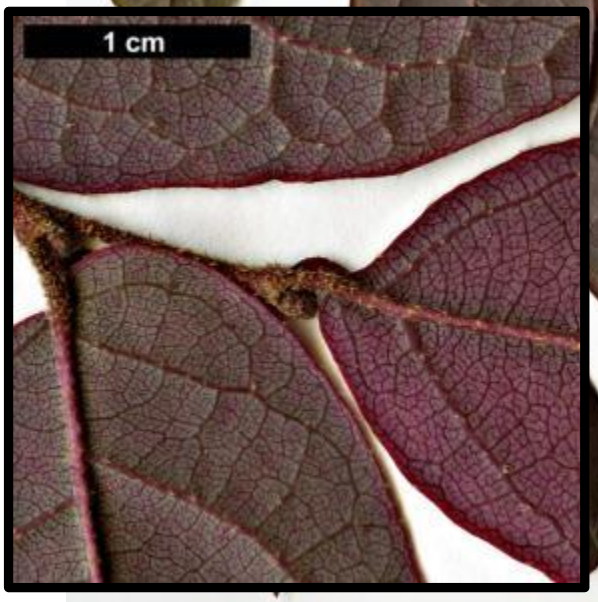
bruised lamina
scentless

Loropetalum chinense var. *rubrum*

Hamamelidaceae



bruised lamina scentless



leaf arrangement two-ranked

Loropetalum chinense var. *rubrum*

Altingiaceae

bruised lamina with sharp scent

leaf arrangement spirally

Altingia gracilipes

key to groups

2 groups

each with following

diagnostic characters

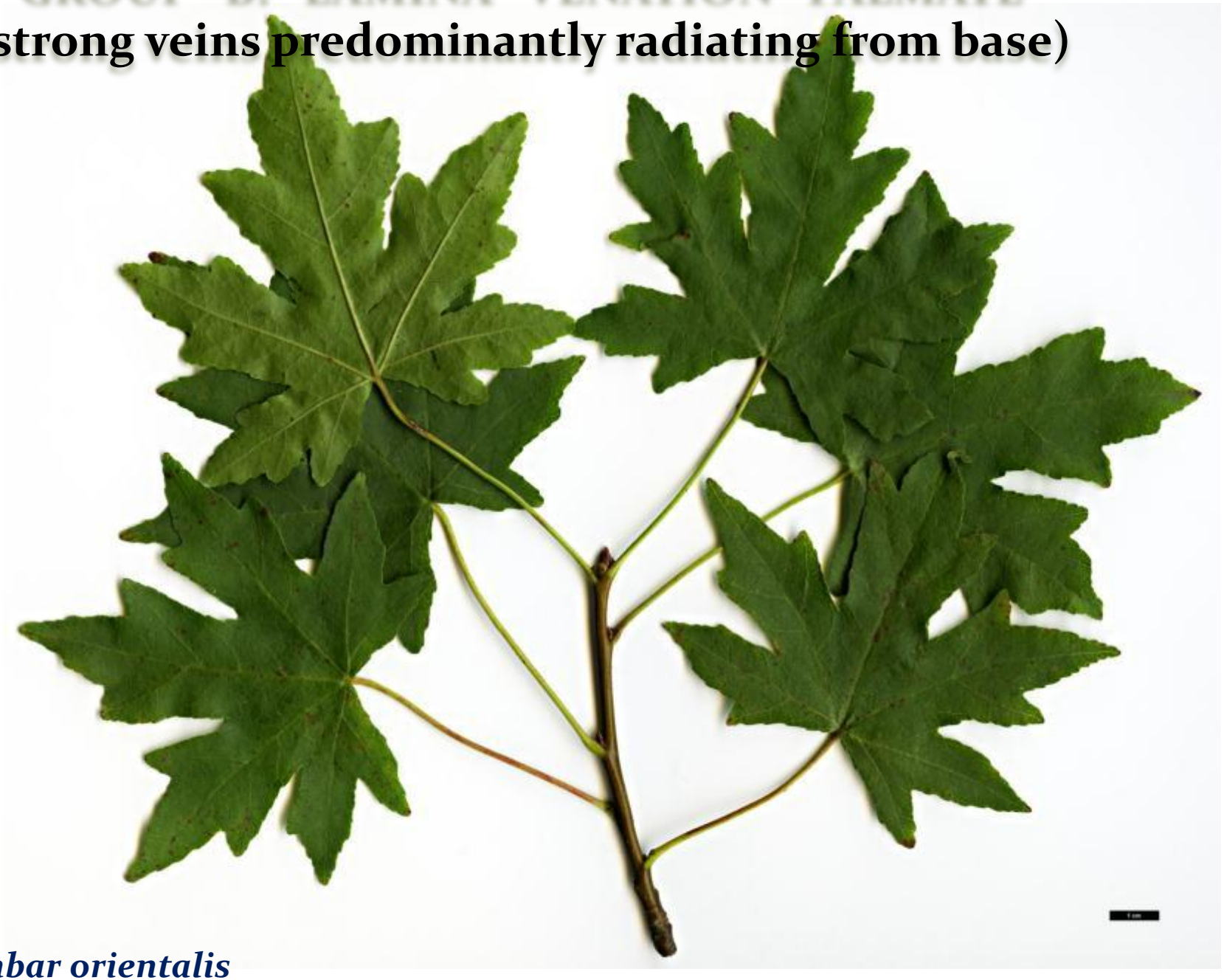
GROUP A: LAMINA VENATION PINNATE
(secondary veins scattered along midvein)

Altingia poilanei

GROUP A: LAMINA VENATION PINNATE
(secondary veins scattered along midvein)

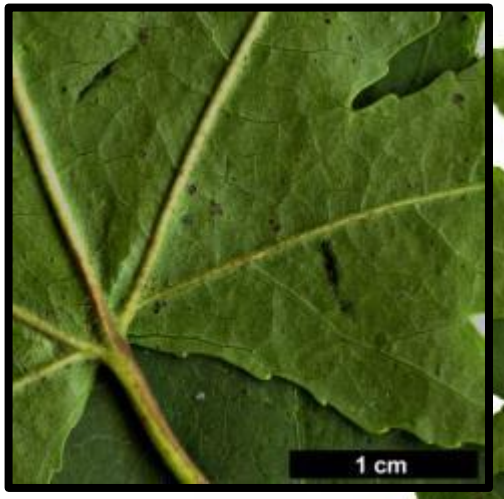
Altingia poilanei

GROUP B: LAMINA VENATION PALMATE
(strong veins predominantly radiating from base)



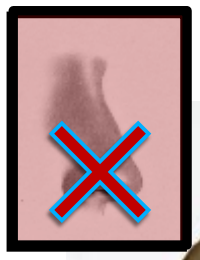
Liquidambar orientalis

GROUP B: LAMINA VENATION PALMATE
(strong veins predominantly radiating from base)



Liquidambar orientalis

Hamamelidaceae



bruised lamina scentless

leaf arrangement two-ranked

Loropetalum chinense* var. *rubrum

key to groups

3 groups

each with following

diagnostic characters

GROUP A

LAMINA VENATION PALMATE

strong veins predominantly radiating from base

GROUP A

LAMINA VENATION PALMATE

strong veins predominantly radiating from base

GROUP B

LAMINA VENATION PINNATE

most secondary veins curving + anastomosing before margin

GROUP A

LAMINA VENATION PALMATE

strong veins predominantly radiating from base

GROUP B

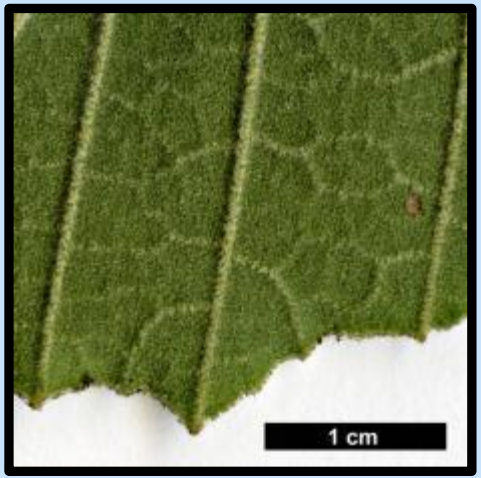
LAMINA VENATION PINNATE

most secondary veins curving + anastomosing before margin

GROUP C

LAMINA VENATION PINNATE

most secondary veins ending at margin



GROUP A

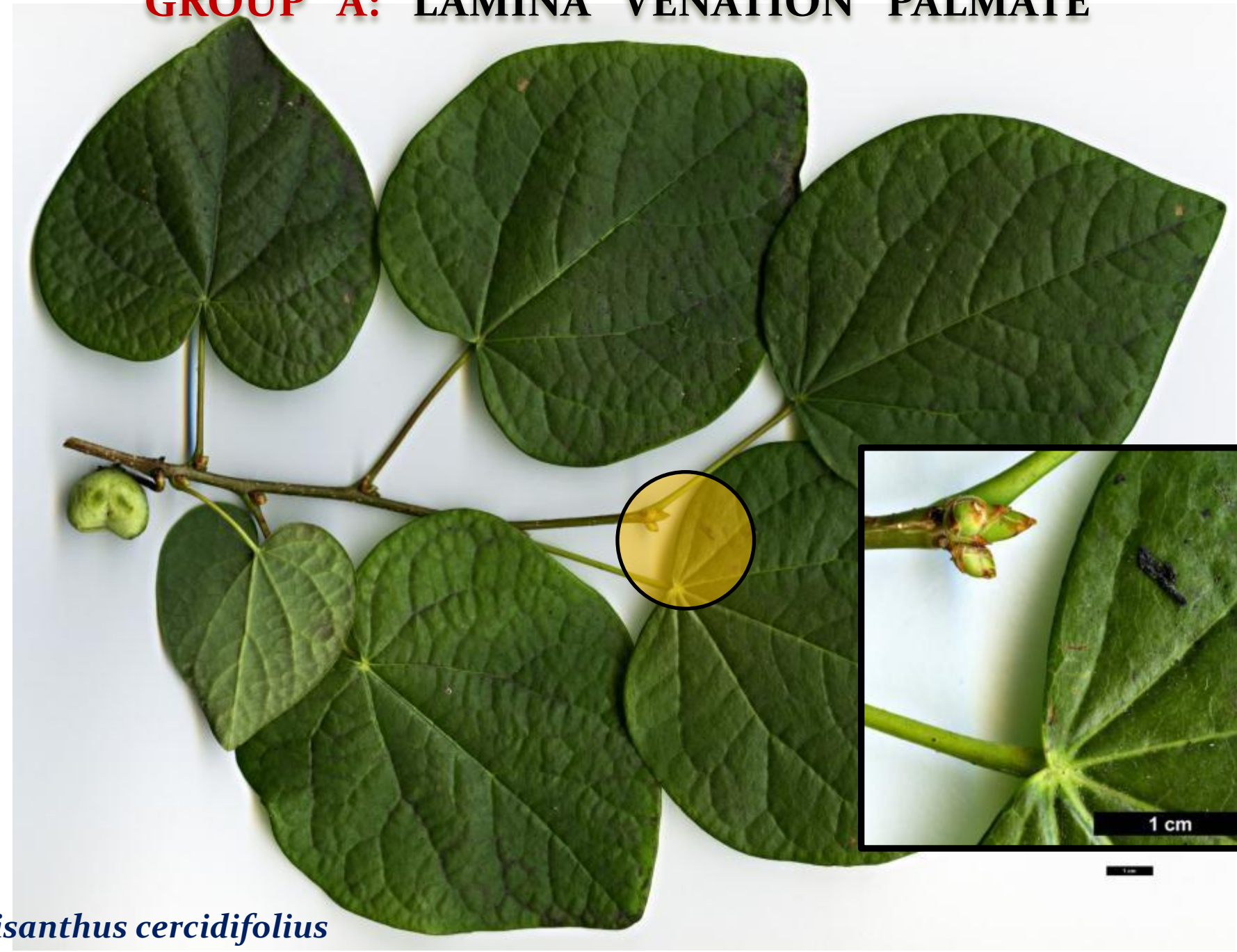
LAMINA VENATION PALMATE

strong veins predominantly radiating from base

GROUP A: LAMINA VENATION PALMATE

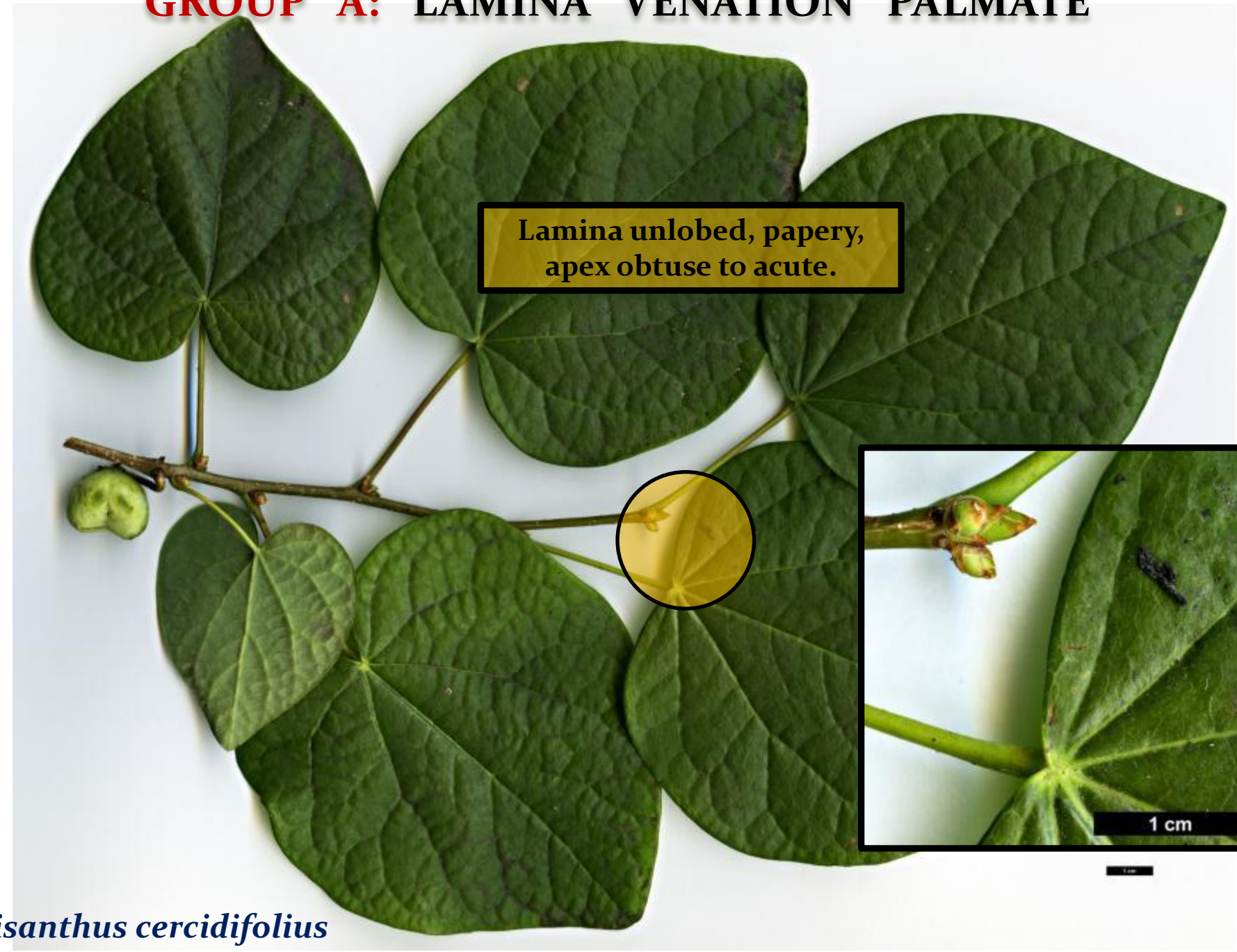
Disanthus cercidifolius

GROUP A: LAMINA VENATION PALMATE



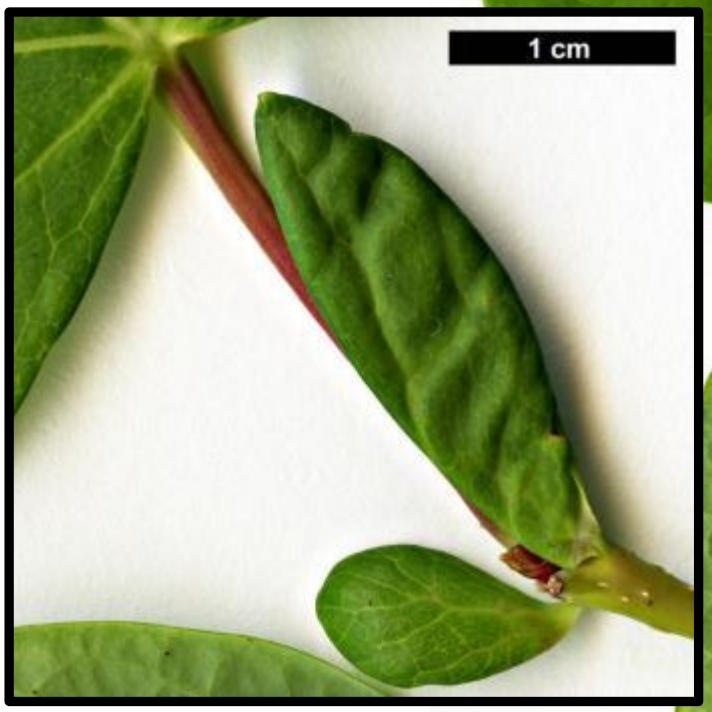
Disanthus cercidifolius

GROUP A: LAMINA VENATION PALMATE



Disanthus cercidifolius

GROUP A: LAMINA VENATION PALMATE



Lamina unlobed, papery, apex obtuse to acute. Stipules free.

Disanthus cercidifolius

GROUP A: LAMINA VENATION PALMATE

Exbucklandia populnea

GROUP A: LAMINA VENATION PALMATE

Lamina unlobed(rarely lobed), leathery, apex acuminate to caudate.

Exbucklandia populnea

GROUP A: LAMINA VENATION PALMATE

Lamina unlobed (rarely lobed), leathery, apex acuminate to caudate. Stipules united.

Exbucklandia populnea

GROUP A: LAMINA VENATION PALMATE

Lamina unlobed (rarely lobed), leathery, apex acuminate to caudate. Stipules united.

Exbucklandia populnea

GROUP A

LAMINA VENATION PALMATE

strong veins predominantly radiating from base

GROUP B

LAMINA VENATION PINNATE

most secondary veins curving + anastomosing before margin

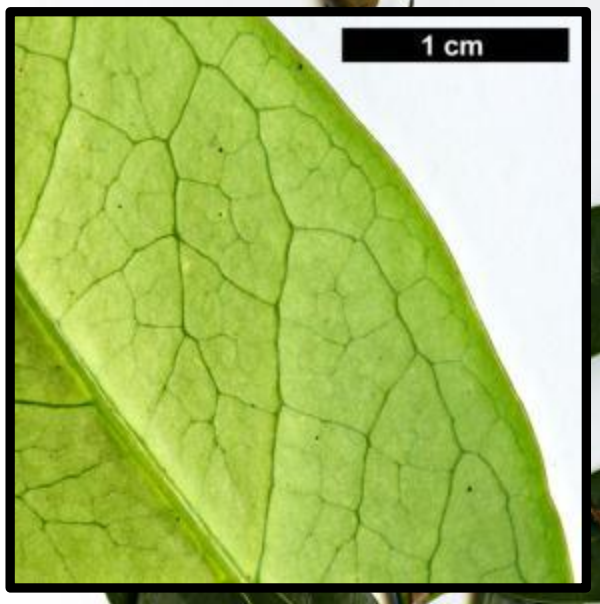
GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Distylium racemosum

GROUP B: LAMINA VENATION PINNATE

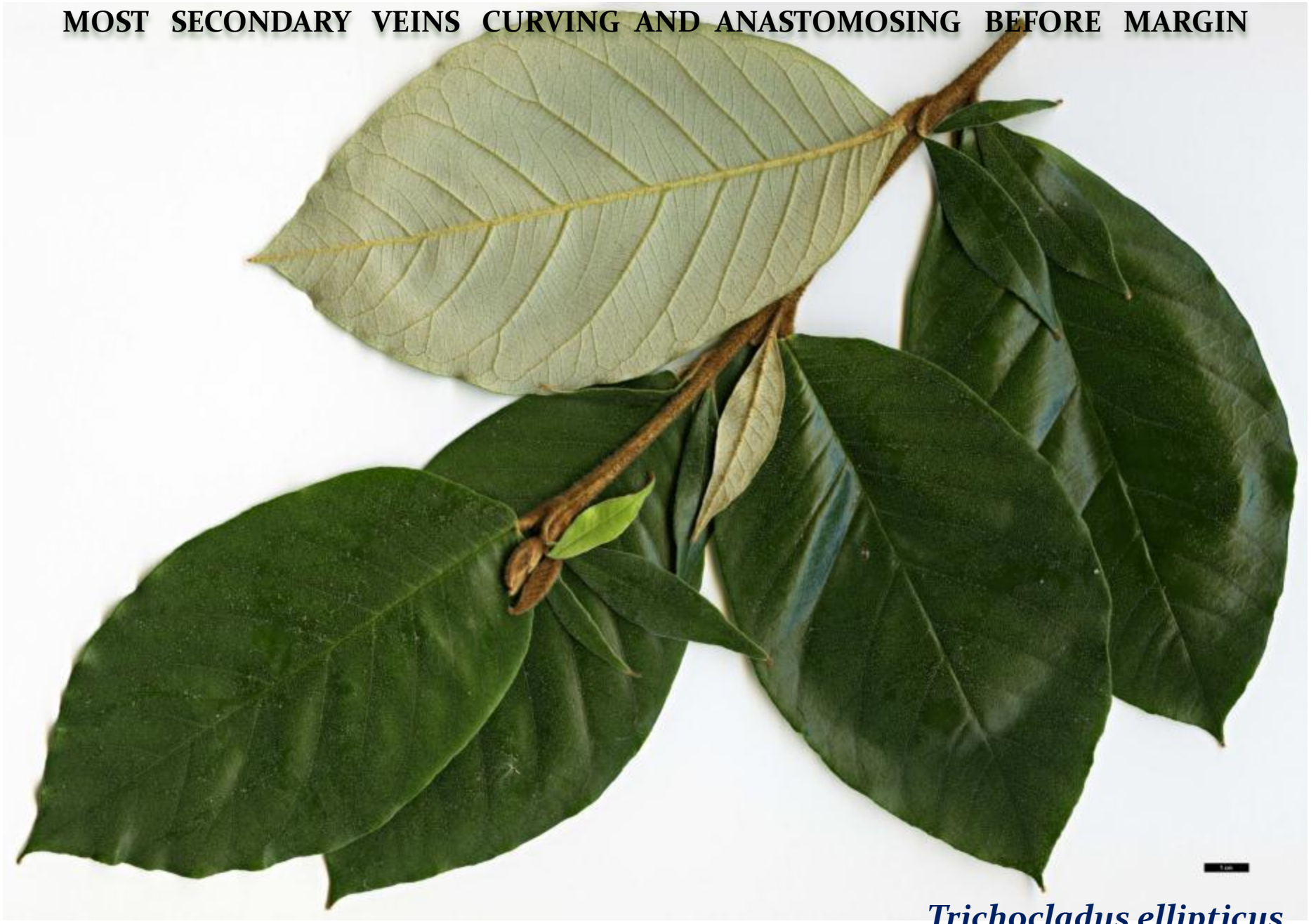
MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Distylium racemosum

GROUP B: LAMINA VENATION PINNATE

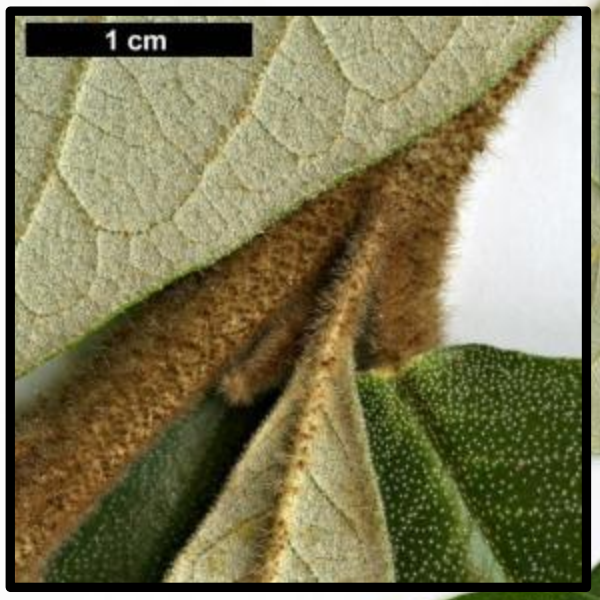
MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Trichocladus ellipticus

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

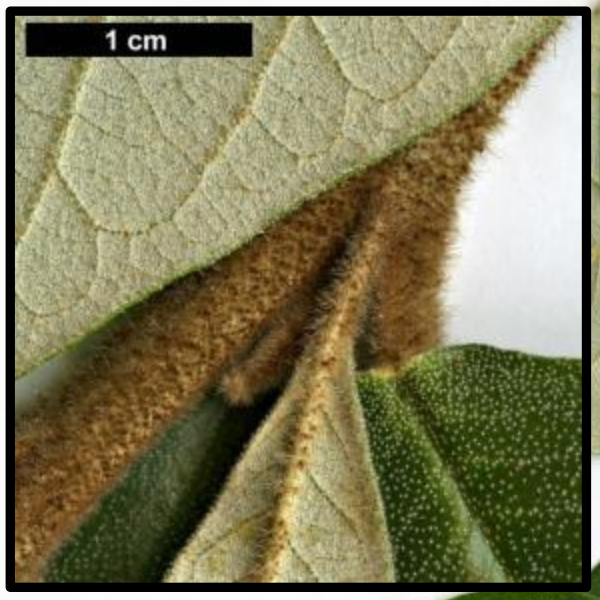


Shoot, petiole and lamina pubescent with long-armed stellate hairs.

Trichocladus ellipticus

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Shoot, petiole and lamina pubescent with long-armed stellate hairs.

Trichocladus ellipticus

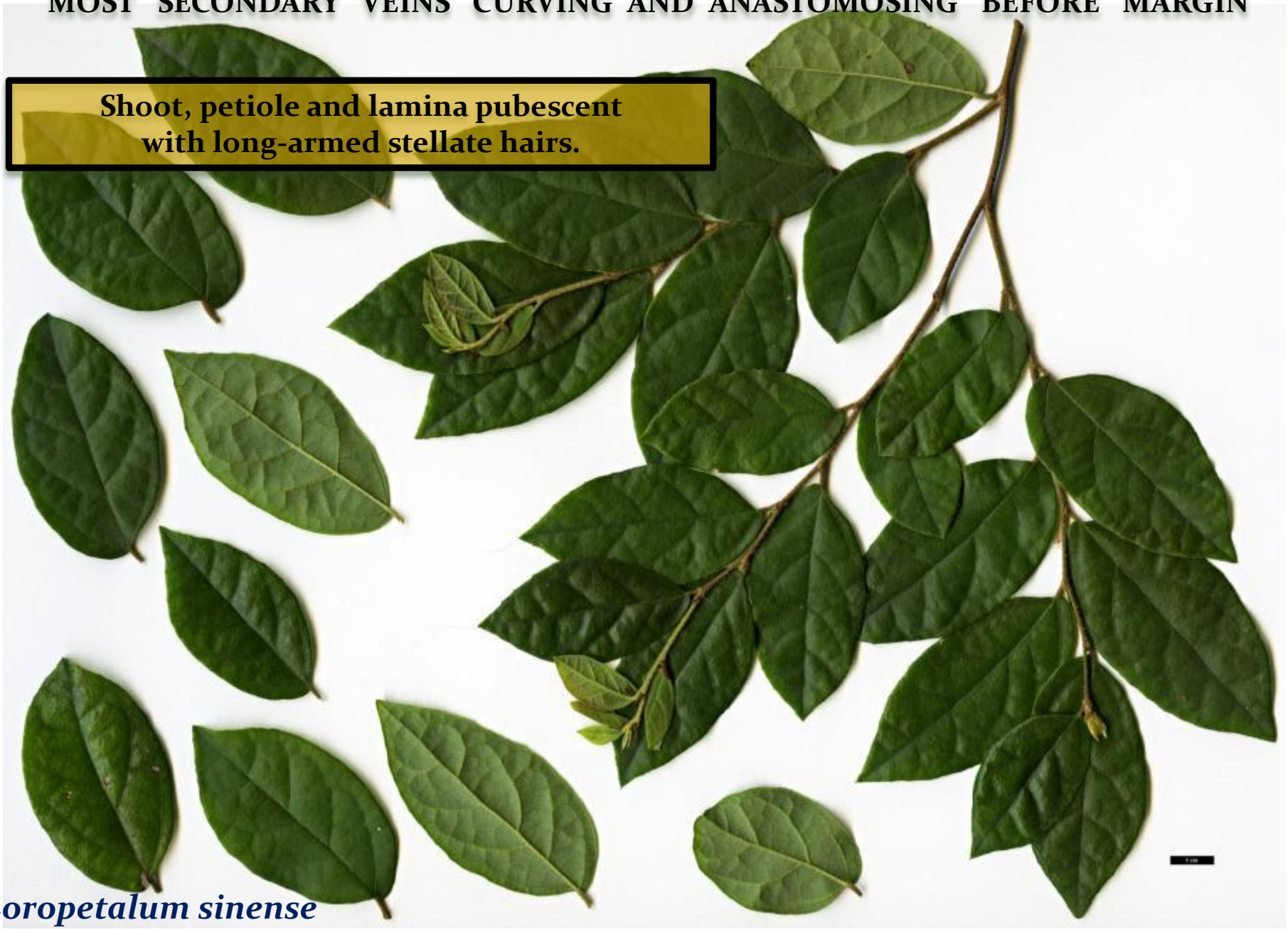
GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Loropetalum sinense

GROUP B: LAMINA VENATION PINNATE

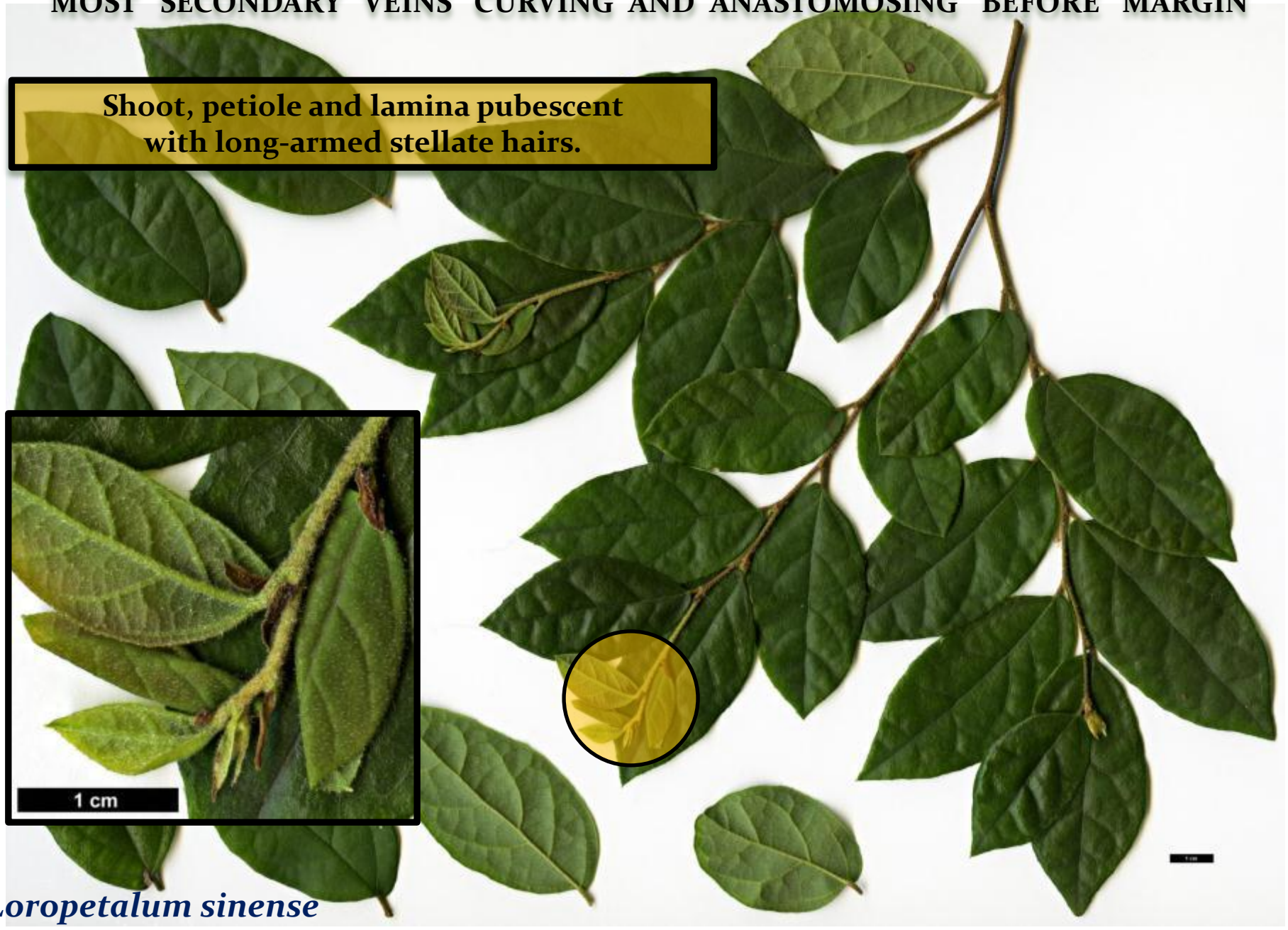
MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Loropetalum sinense

GROUP B: LAMINA VENATION PINNATE

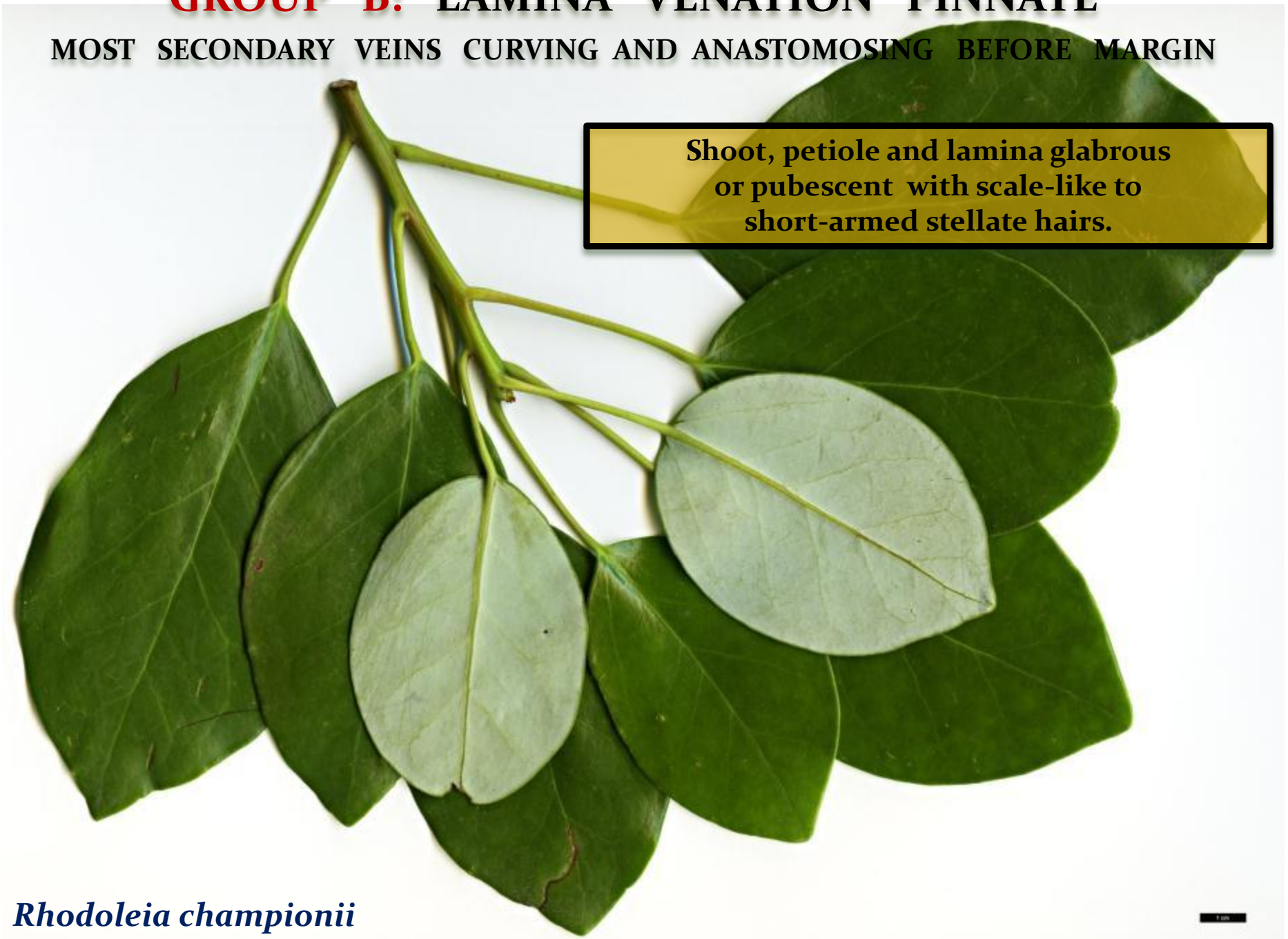
MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Loropetalum sinense

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Shoot, petiole and lamina glabrous or pubescent with scale-like to short-armed stellate hairs.

Rhodoleia championii

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Lamina LS +/- glaucous green, margin darker than surface.

Rhodoleia championii

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

leaf arrangement spirally

Rhodoleia championii

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

leaf arrangement spirally

Rhodoleia championii

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Rhodoleia championii sensu lato

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Sycopsis sinensis

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

GROUP B: LAMINA VENATION PINNATE

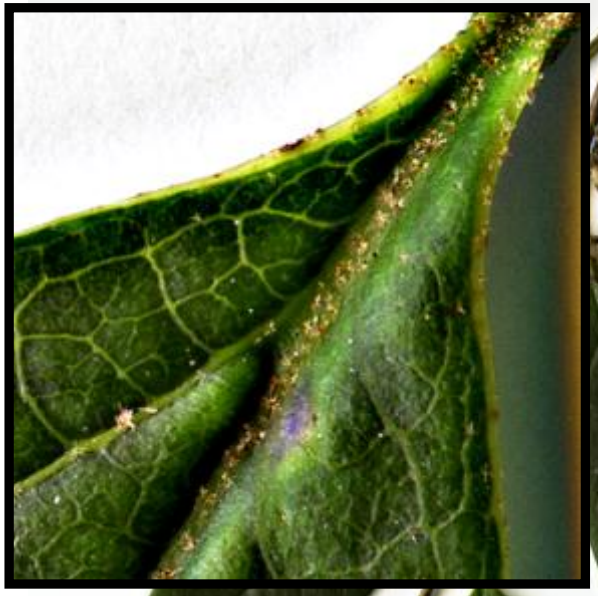
MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Lamina LS green, margin translucent (10× LENS).

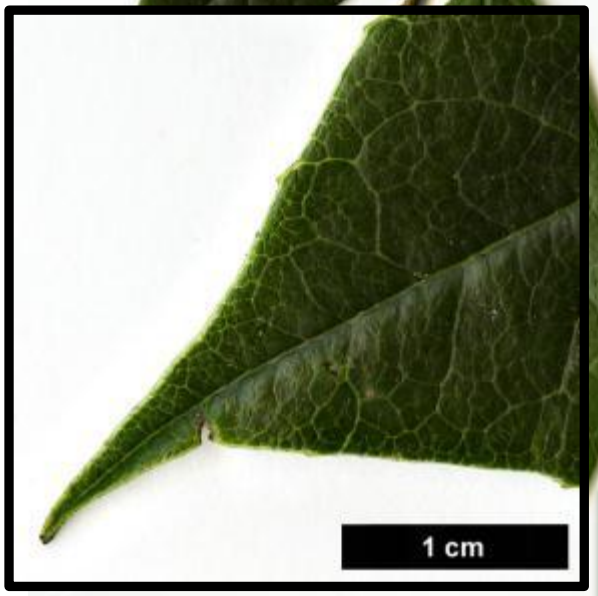
Sycopsis sinensis

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Lamina LS green,
margin translucent (10× LENS).



Lamina apex predominantly
gradually acuminate to (sub-)caudate.

Sycopsis sinensis

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Lamina LS green,
margin translucent (10× LENS).

Distylium myricoides

GROUP B: LAMINA VENATION PINNATE

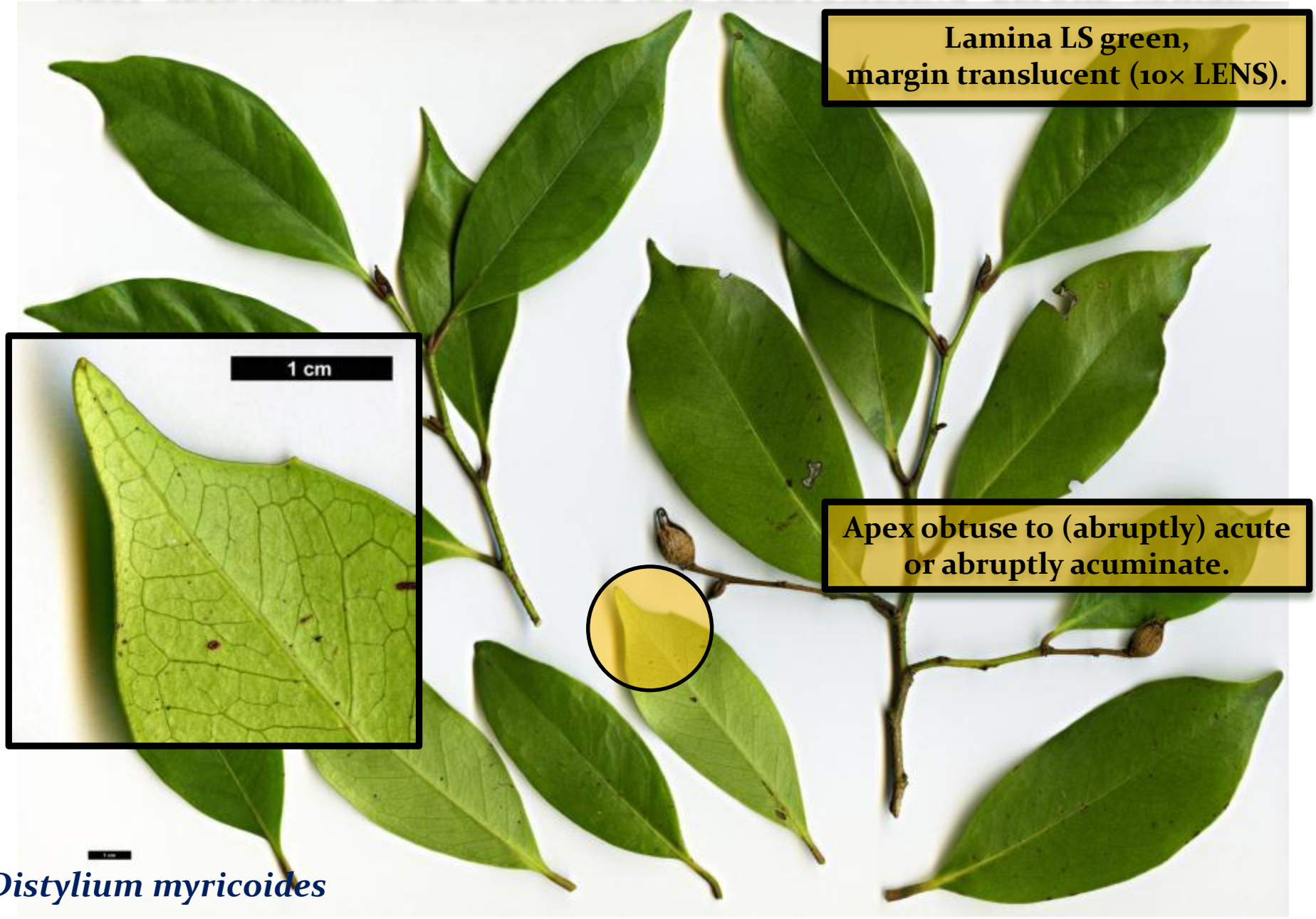
MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Lamina LS green,
margin translucent (10× LENS).

Distylium myricoides

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN



Distylium myricoides

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Distylium racemosum

GROUP B: LAMINA VENATION PINNATE

MOST SECONDARY VEINS CURVING AND ANASTOMOSING BEFORE MARGIN

Distylium racemosum

GROUP A

LAMINA VENATION PALMATE

strong veins predominantly radiating from base

GROUP B

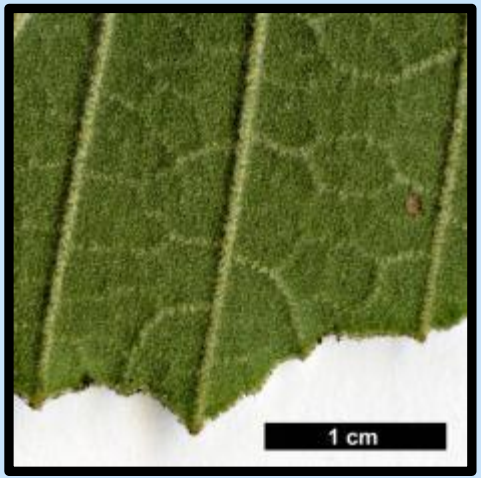
LAMINA VENATION PINNATE

most secondary veins curving + anastomosing before margin

GROUP C

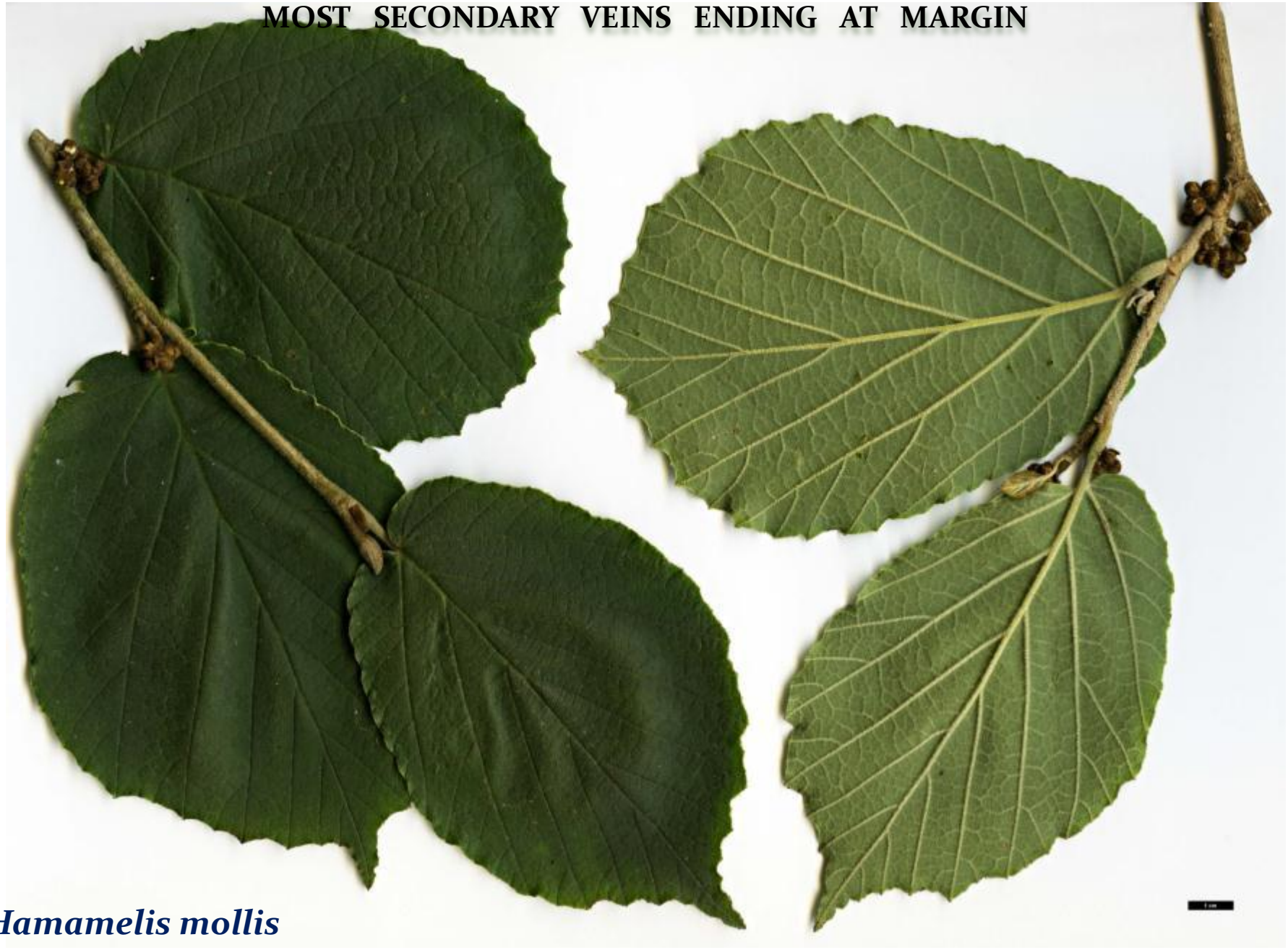
LAMINA VENATION PINNATE

most secondary veins ending at margin



GROUP C: LAMINA VENATION PINNATE

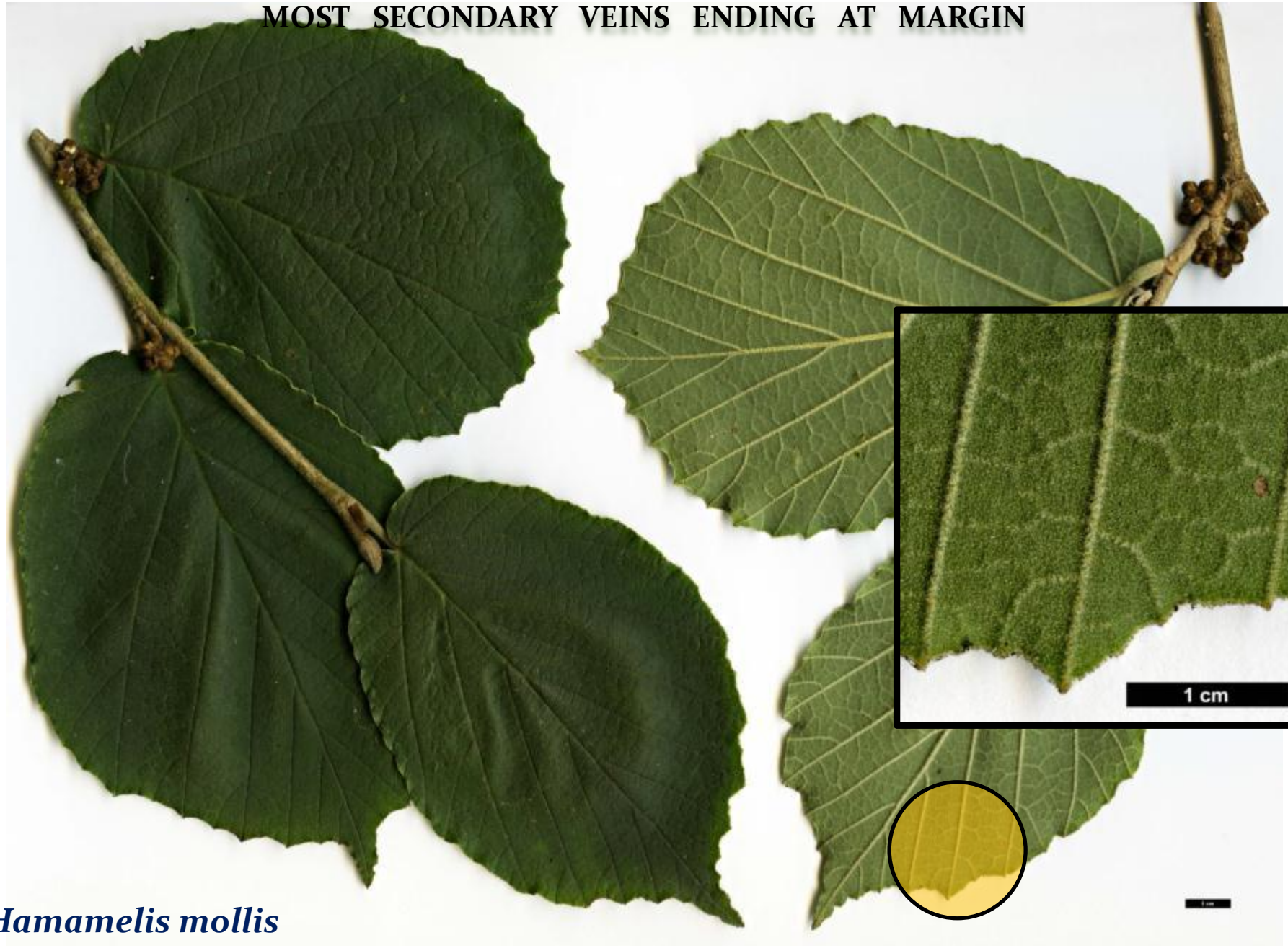
MOST SECONDARY VEINS ENDING AT MARGIN



Hamamelis mollis

GROUP C: LAMINA VENATION PINNATE

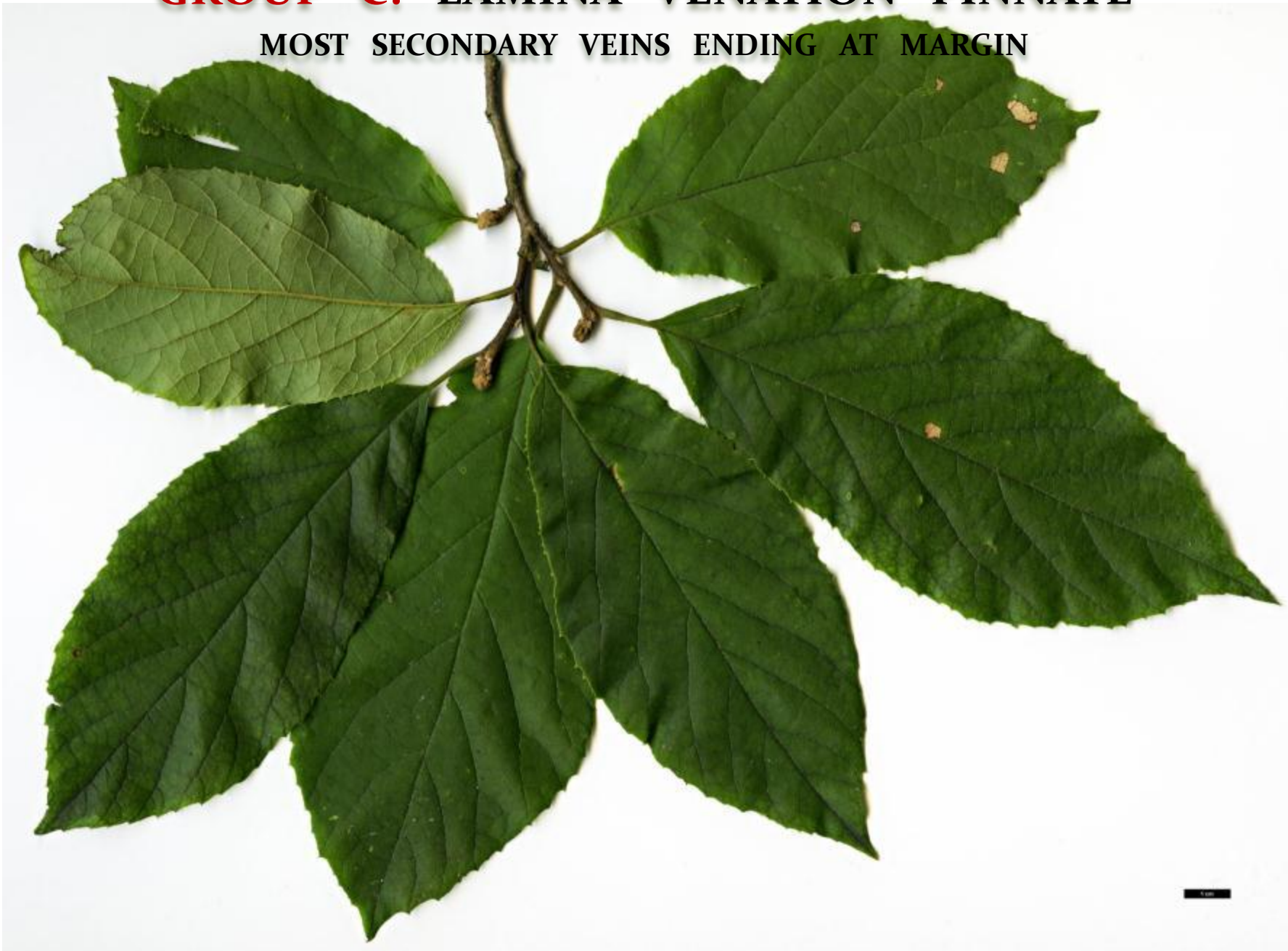
MOST SECONDARY VEINS ENDING AT MARGIN



Hamamelis mollis

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

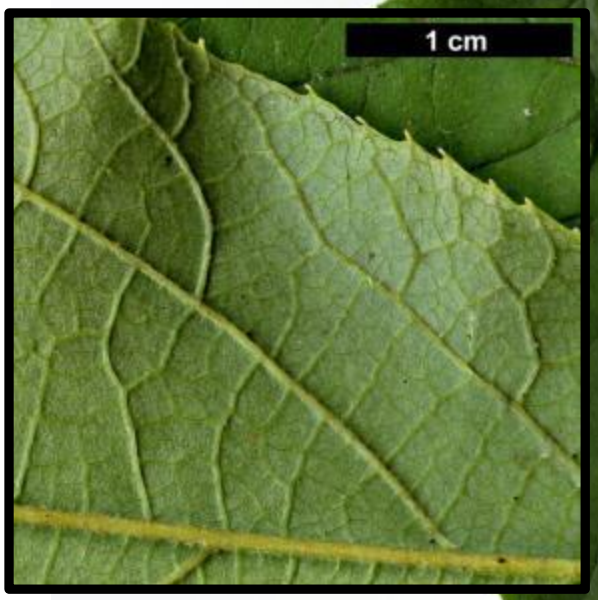


Fortunearia sinensis

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lamina margin with >25 teeth or vein endings/side.



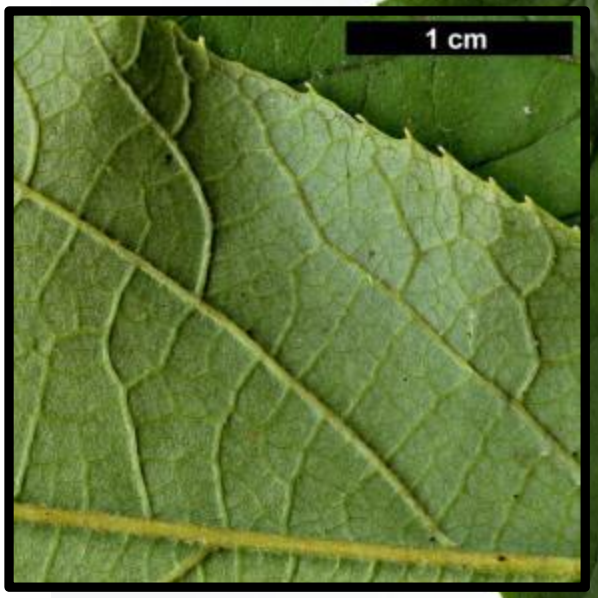
Fortunearia sinensis

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lamina margin with >25 teeth or vein endings/side.

Lamina base rounded to cuneate.



Fortunearia sinensis

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Sinowilsonia henryi

GROUP C: LAMINA VENATION PINNATE

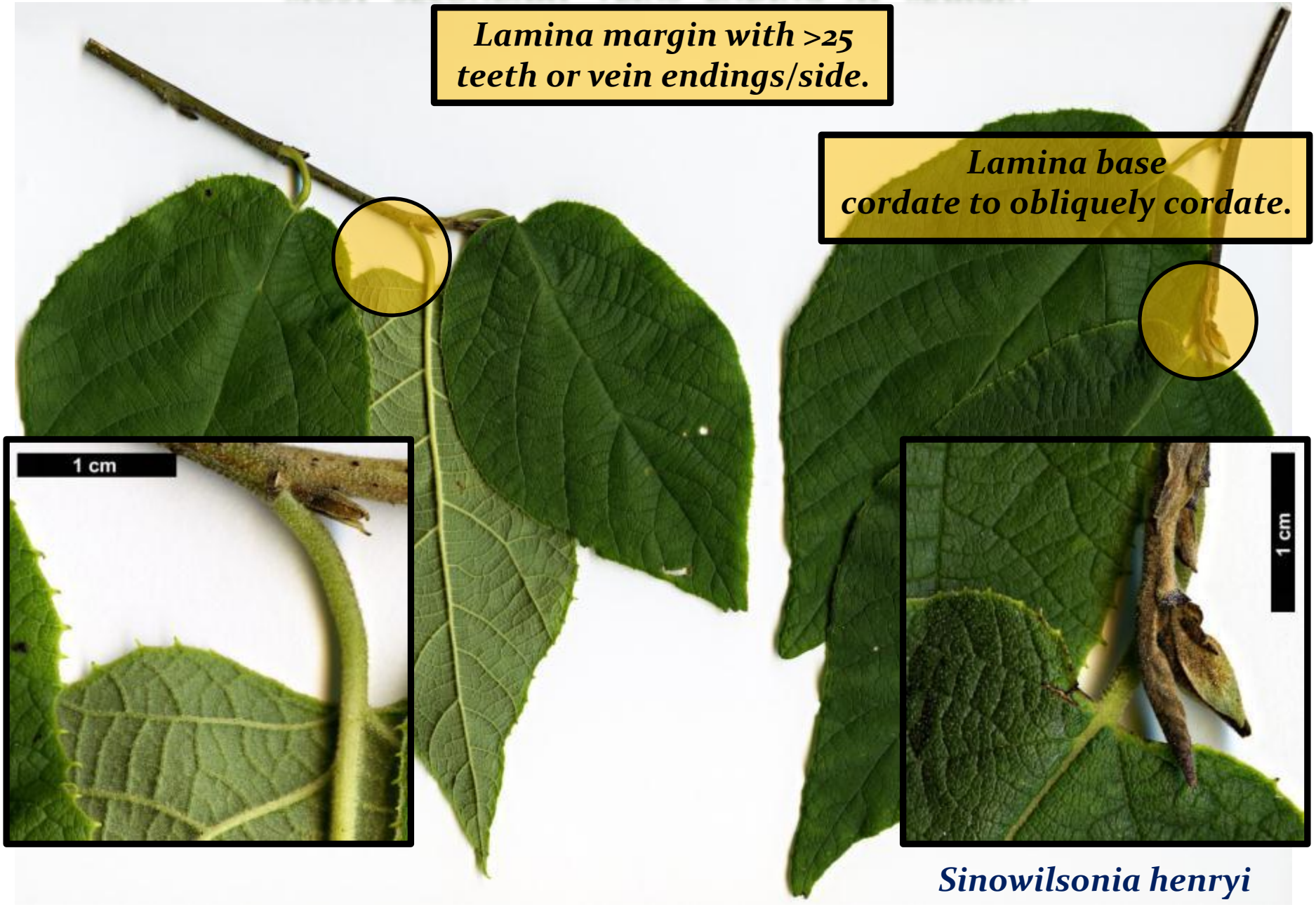
MOST SECONDARY VEINS ENDING AT MARGIN

Lamina margin with >25 teeth or vein endings/side.

Sinowilsonia henryi

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN



Sinowilsonia henryi

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Parrotia persica

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Parrotia persica

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lamina margin with ≤25 teeth or vein endings/side.

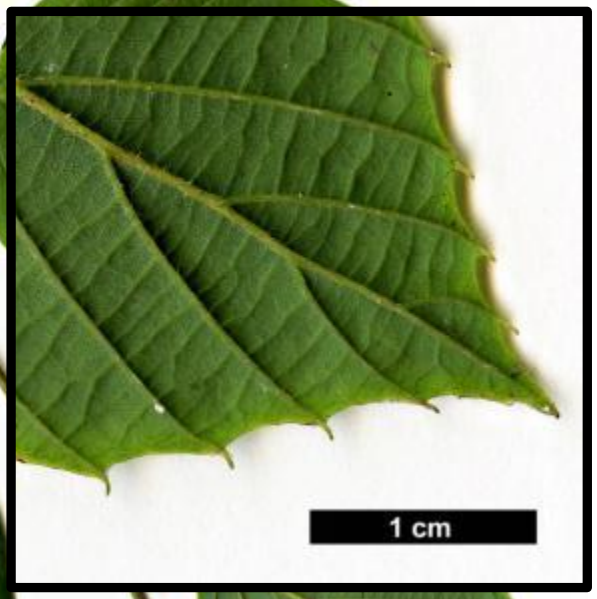
Corylopsis sinensis

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lamina margin with ≤25 teeth or vein endings/side.

Teeth bristly at apex.



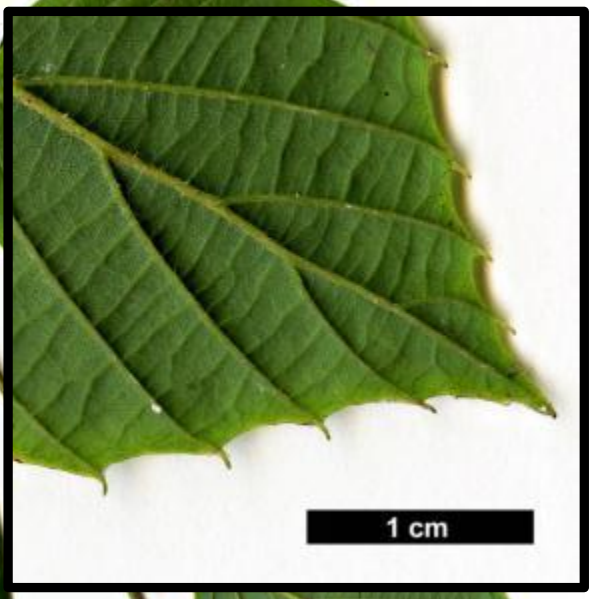
Corylopsis sinensis

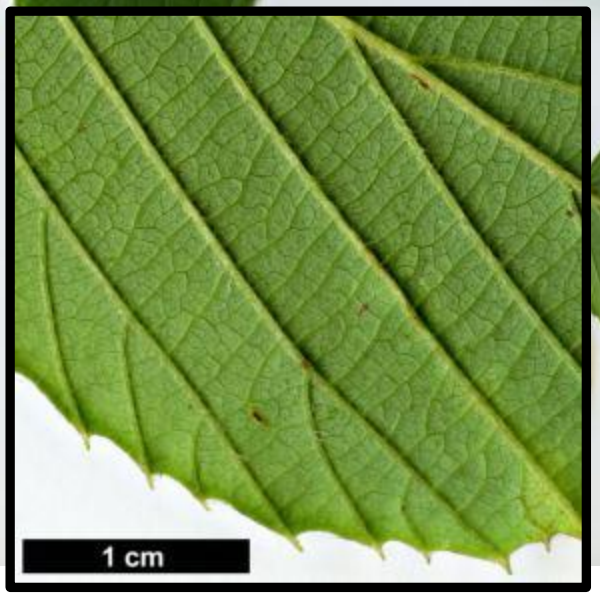
GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lamina margin with ≤25 teeth or vein endings/side.

Teeth bristly at apex.





Corylopsis sinensis

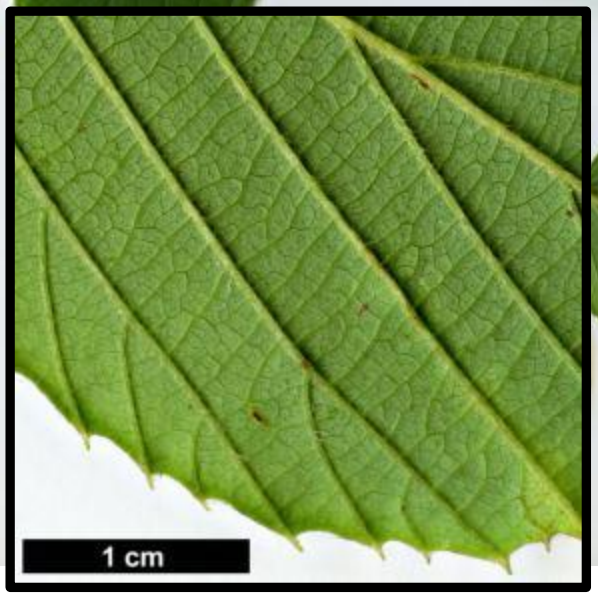
GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lamina margin with ≤25 teeth or vein endings/side.

Teeth bristly at apex.

Lamina base cordate.



Corylopsis sinensis

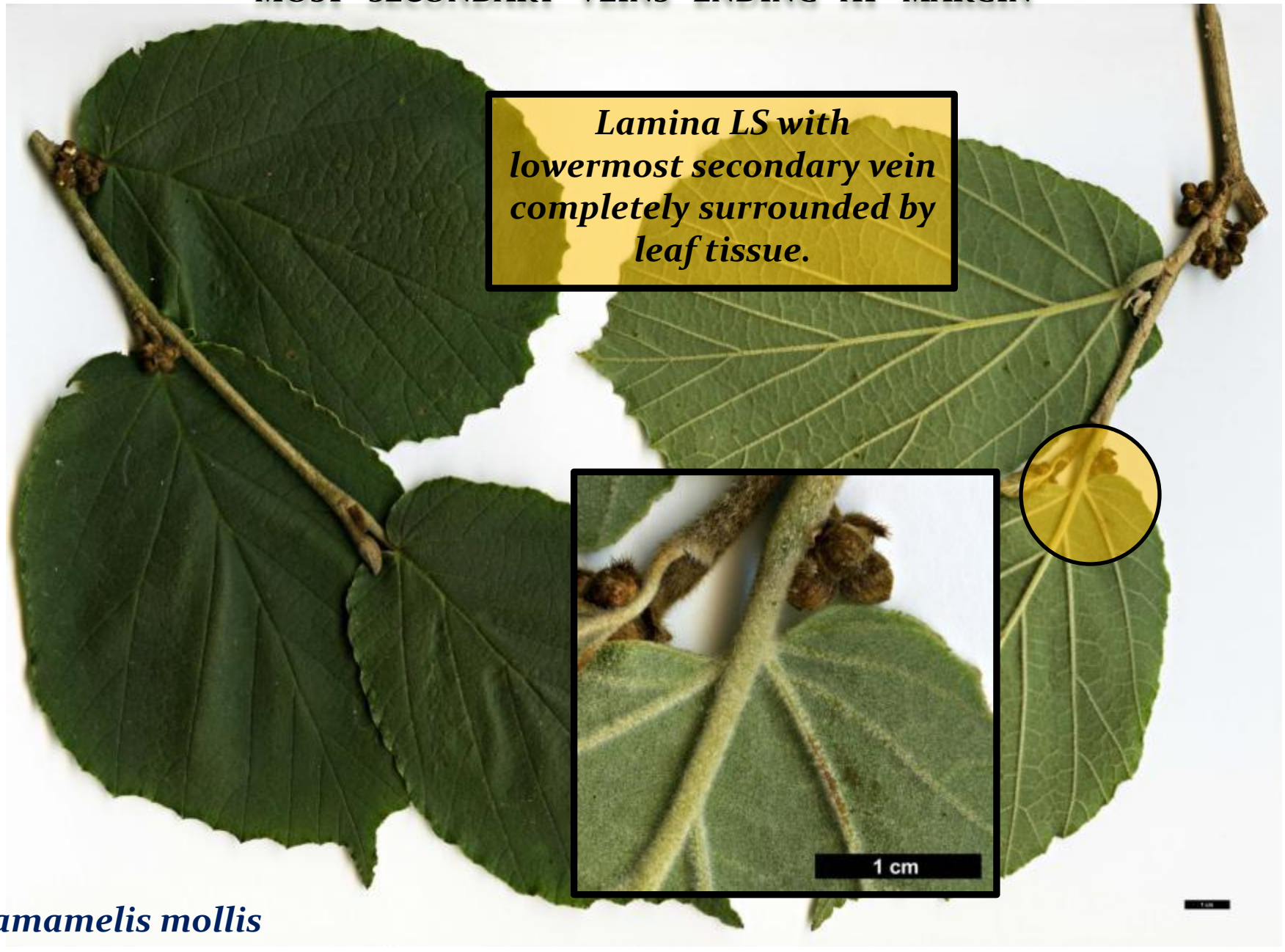
GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Hamamelis mollis

GROUP C: LAMINA VENATION PINNATE

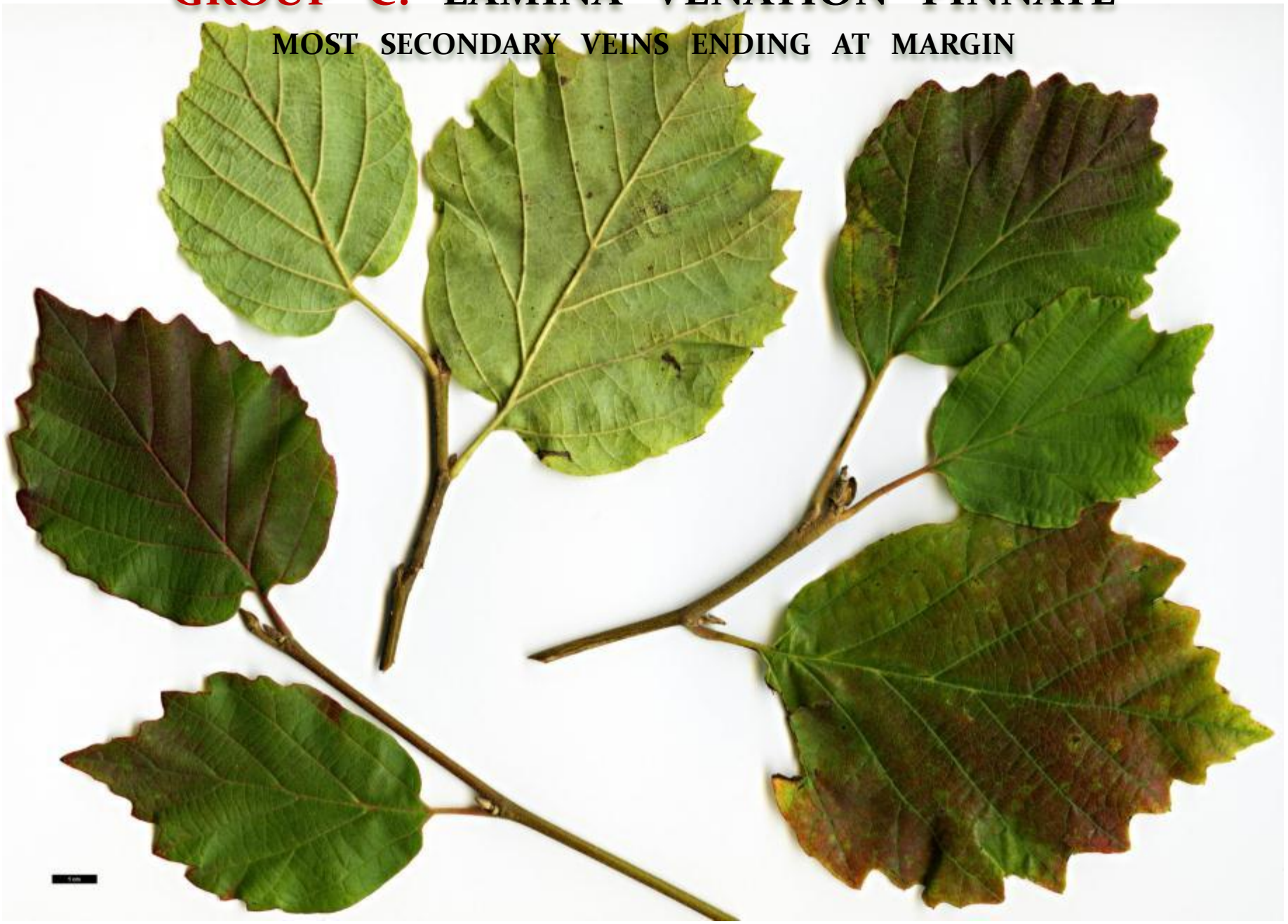
MOST SECONDARY VEINS ENDING AT MARGIN



Hamamelis mollis

GROUP C: LAMINA VENATION PINNATE

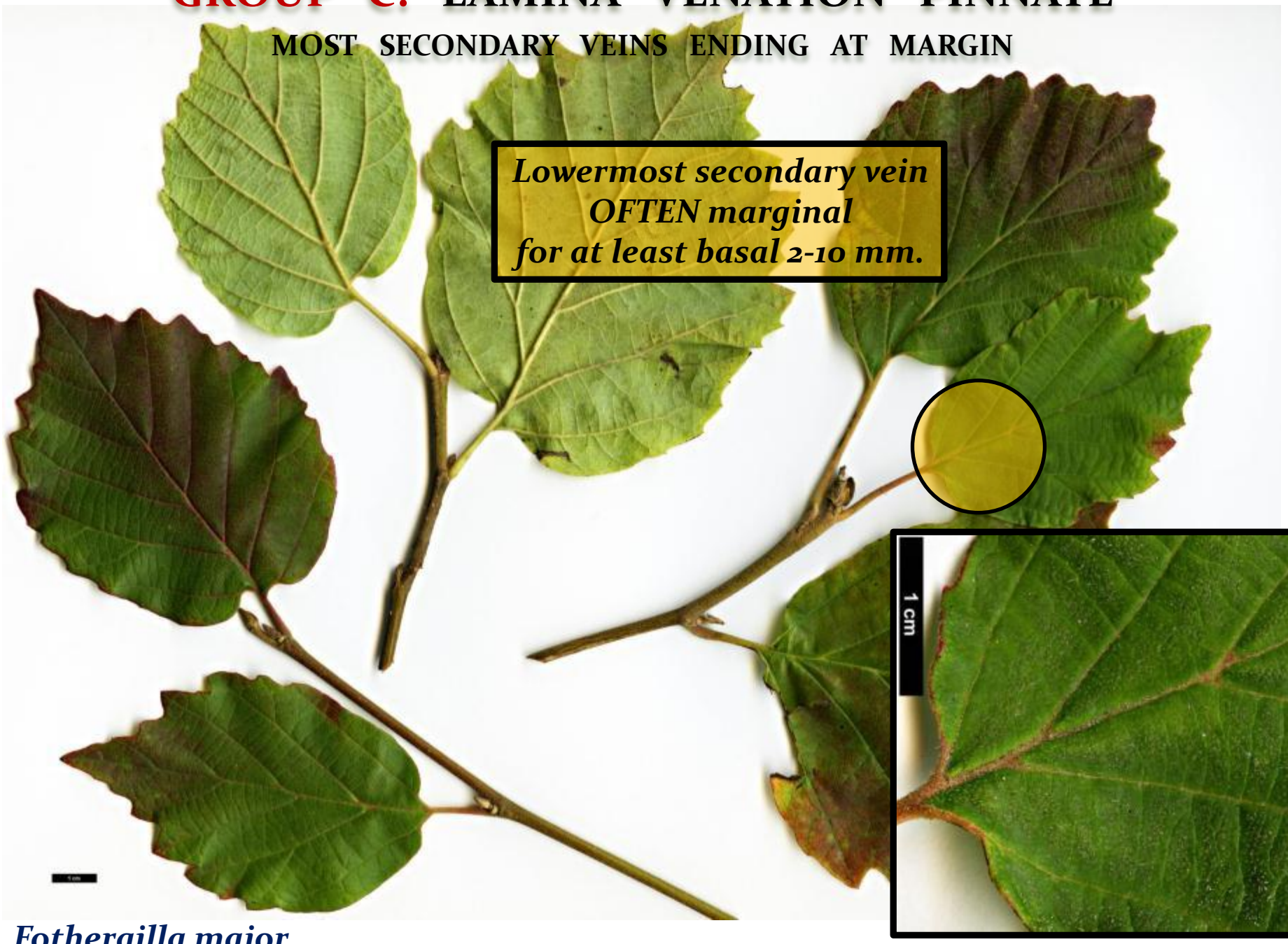
MOST SECONDARY VEINS ENDING AT MARGIN



Fothergilla major

GROUP C: LAMINA VENATION PINNATE

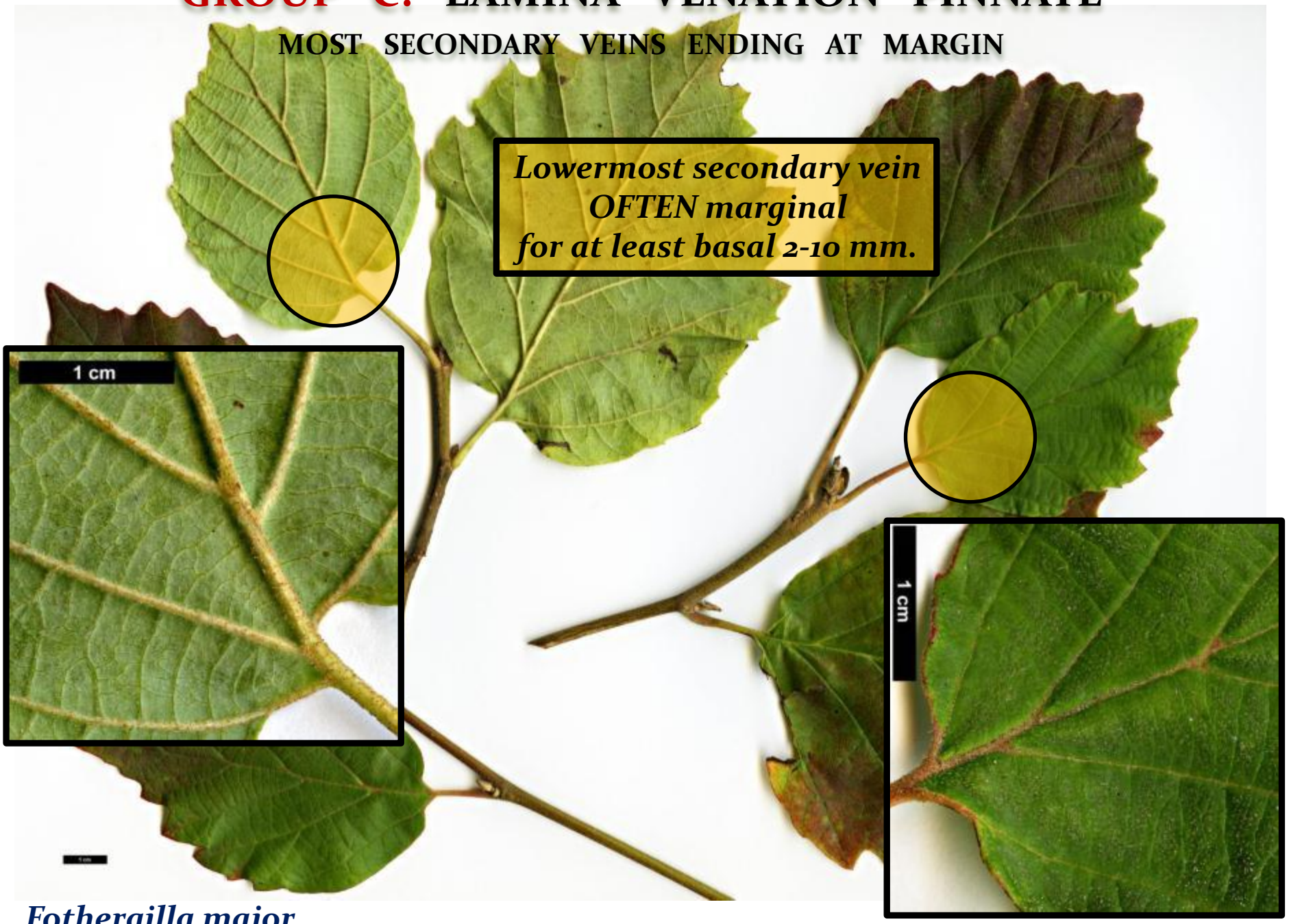
MOST SECONDARY VEINS ENDING AT MARGIN



Fothergilla major

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN



Fothergilla major

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Hamamelis japonica

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lowermost secondary vein OFTEN marginal for at least basal 2-10 mm.

Hamamelis japonica

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lowermost secondary vein OFTEN marginal for at least basal 2-10 mm.

Hamamelis japonica

GROUP C: LAMINA VENATION PINNATE

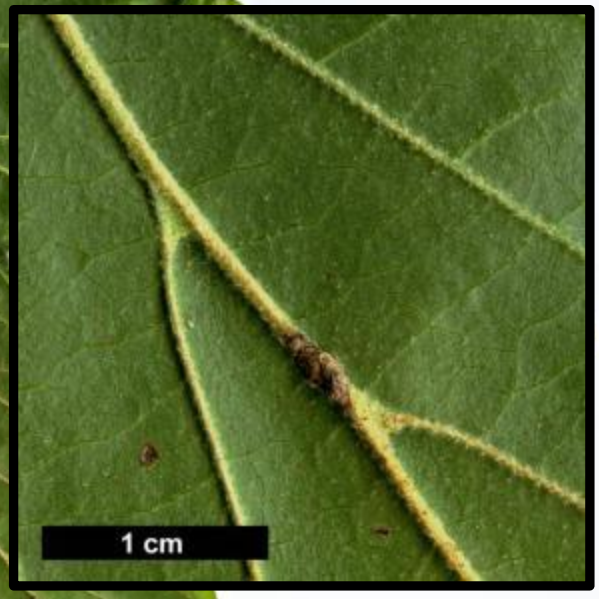
MOST SECONDARY VEINS ENDING AT MARGIN

Parrotia persica

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Lamina LS secondary vein axils with tiny membranous domatia.



Parrotia persica

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Parrotiopsis jacquemontiana

GROUP C: LAMINA VENATION PINNATE

MOST SECONDARY VEINS ENDING AT MARGIN

Parrotiopsis jacquemontiana

JDL

vegetative identification keys

jan.de.langhe@telenet.be

www.arboretumwespelaar.be

- Home
- Mission and history
- Contact and visits
- Search a plant
- Map of the arboretum
- The plants collection
- Species conservation
- Image gallery
- Trees in Belgium (Beltrees)
- Identification keys
- Publications & Downloads
- Links

Identification keys

Please find below some links to vegetative identification keys (pdf files in English) for selected woody plant genera in Western European cultivation, composed by Jan De Langhe, dendrologist at Ghent University Botanical Garden in collaboration with Arboretum Wespelaar. Any comments or remarks are greatly appreciated and can be sent to Jan at: jan.de.langhe@telenet.be.

In our **database of images**, you can also consult images linked to these identification keys (images for non-commercial use, and with mentioning © Jan De Langhe).

You can also visit the Plantcol website, showing the largest Belgian plant collections digitally. By entering the scientific name, you can check whether a specific plant exists in Belgian collections.

- Acer (Sapindaceae) - 12 January 2012
- Alnus (Betulaceae) - 10 April 2013
- Betula (Betulaceae) - 12 January 2012
- Buxaceae - 28 June 2013
- Carpinus-Ostrya-Ostryopsis (Betulaceae) - 12 June 2013
- Castanea (Fagaceae) - 26 November 2012
- Corylus (Betulaceae) - 12 January 2012
- Fagus (Fagaceae) - 10 September 2013
- Fraxinus (Oleaceae) - 17 September 2013
- Hamamelidaceae (incl. Altingiaceae) - 13 March 2013
- Juglandaceae - 12 January 2012
- Quercus (Fagaceae) - 6 July 2012
- Stewartia (Theaceae) - 12 January 2012
- Tilia (Malvaceae) - 12 January 2012
- Viburnum (Adoxaceae) - 21 October 2012

thanks to

IDS

Wolfgang Bopp
Peter Brownless
Koen Camelbeke
Tom Clark
Francisco Garin
Paul Goetghebeur
John Grimshaw
Tom Hudson
Jaime Morin
Jacky Pousse
Abraham Rammeloo
Paul Reader
Rolf Zumbrunn

Arboretum Kalmthout
Arboretum Wespelaar
Ghent University Botanical Garden
Hillier Gardens and Arboretum
Iturraran Botanical Garden
Polly Hill Arboretum
Royal Botanic Gardens Edinburgh
Royal Botanic Gardens Kew