

Summary of Plants learned in this lab:

Family	Genus	Species
ACANTHACEAE	<i>Anisacanthus</i>	<i>quadrifidus</i> var. <i>wrightii</i>
ASTERACEAE	<i>Calyptocarpus</i>	<i>vialis</i>
BIGNONIACEAE	<i>Tecoma</i>	<i>stans</i>
COMMELINACEAE	<i>Commelina</i>	<i>erecta</i>
EQUISETACEAE	<i>Equisetum</i>	<i>hyemale</i>
EUPHORBIACEAE	<i>Euphorbia</i>	<i>dentata</i>
FABACEAE	<i>Cercis</i>	<i>canadensis</i> var. <i>texensis</i>
LAMIACEAE	<i>Callicarpa</i>	<i>americana</i>
MALVACEAE	<i>Malvaviscus</i>	<i>arboreus</i> var. <i>drummondii</i>
MENISPERMACEAE	<i>Cocculus</i>	<i>carolinus</i>
PHYTOLACCACEAE	<i>Rivina</i>	<i>humilis</i>
POACEAE	<i>Chasmanthium</i>	<i>latifolium</i>
RUTACEAE	<i>Ptelea</i>	<i>trifoliata</i>
SCROPHULARIACEAE	<i>Verbascum</i>	<i>thapsus</i>
VITACEAE	<i>Cissus</i>	<i>incisa</i>

ASTERACEAE (sunflower family) *Calyptocarpus vialis* prostrate lawn flower, horse herb

Calypto = covered carpos= fruit vialis = of the wayside



ray flowers? Disc flowers? Leaf texture?

BIGNONIACEAE (catalpa/trumpet vine family) *Tecoma stans* trumpet-flower

Bignon= a Parisian abbey tacoma = mexican name (tecomaxochitl) stans = erect



native to the Texas Trans-pecos, used in landscaping around Austin area

leaf complexity? Leaf margins?

LAMIACEAE (mint family)

Callicarpa americana

American beauty-berry

Callos = beauty

carpos = fruit



where are flowers/fruits located?

Leaf margins?

POACEAE (grass family)

Chasmanthium latifolium

broad-leaf wood oats, creek oats

chasme = gaping

anthus = flower

latifolium = broad-leaved



Grass flowers are in **spikelets**, which usually have several small **florets** in a cluster.

MALVACEAE (mallow family) *Malvaviscus arboreus var. drummondii* Drummond's wax-mallow, Texas-mallow

malachos = soothing

viscus = glue

arbor = tree



Corolla shape?

Notice the fusion of pistil and stamens

note the involucre

Leaf venation?

COMMELINACEAE (spiderwort family) *Commelina erecta* erect dayflower

commelin = Dutch botanist

erecta = erect



how many petals? (hint:one is reduced)

monocot or dicot?

VITACEAE (grape family) *Cissus incisa* cowitch, ivy-treebine, marinevine

Vitis=classical name for grape kiccos = classical name of ivy incise = incised, cut



leaf texture?

Leaf odor?

Leaf complexity?

Inflorescence type?

MENISPERMACEAE (moonseed family) *Cocculus carolinus* Carolina snailseed, coralberry

Meni=moon

sperm=seed (alluding to seed shape)

coccus = berry



note the variation in leaf shape and size – some look like elephant heads

FABACEAE (legume, bean family) *Cercis canadensis var. texensis* Texas redbud

Faba=bean kerkis = weaver's shuttle, alluding to large woody fruits (??)



leaf shape?

Leaf texture?

Fruit type?

EUPHORBIACEAE (spurge family) *Euphorbia dentata* toothed spurge

euphorbus = 1st century AD physician to King Juba of Mauritania dentata = toothed



note the milky sap (sometimes irritating to skin)

Leaf margin? (hint: specific epithet)

unique Euphorb inflorescence: **cyathium** – look for distinct 3-lobed stalked ovary

ACANTHACEAE (wild petunia family) *Anisacanthus quadrifidus* var. *wrightii* flame acanthus

Anisa = unequal

acanthos = thorn

quadrifidus=four-cut

wright=TX botanist



How many stamens? Note that they are fused to lower corolla lip

The flowers are arranged along one side of inflorescence, spikelike

Endemic to Edwards Plateau

RUTACEAE (citrus, rue family)

Ptelea trifoliata

wahoo, hoptree

ptelea = name used for an elm by Linnaeus

trifoliata = three-leaved



Crush a leaf – what is the smell?

EQUISETACEAE (horsetail family)

Equisetum hyemale common scouring-rush

equis = horse seta = bristle hyemale = winter



Reduced leaves appear as blackish collars around the nodes

Stems are the major photosynthetic organs

silica!

PHYTOLACCACEAE (pokeweed family)

Rivina humilis pigeon berry, blood berry

Phyto=plant lacca=lake (crimson) from color of fruits
German botanist humilis = low-growing

rivina = for A.Q. Rivinus,



SCROPHULARIACEAE (foxglove, figwort family) *Verbascum thapsus* common mullein

verbascum = classical latin for these plants
modern-day Tunisia

thapsus = from Thapsus, an ancient city in



pubescent or glabrous?

Inflorescence?
