

Summary of Plants learned in this lab:

Family	Genus	Species
ASCLEPIADACEAE	<i>Cynanchum</i>	<i>barbigerum</i>
ASTERACEAE	<i>Verbesina</i>	<i>encelioides</i>
CACTACEAE	<i>Opuntia</i>	<i>leptocaulis</i>
CORNACEAE	<i>Cornus</i>	<i>drummondii</i>
LAMIACEAE	<i>Callicarpa</i>	<i>americana</i>
LAMIACEAE	<i>Salvia</i>	<i>coccinea</i>
MALVACEAE	<i>Malvaviscus</i>	<i>arboreus</i>
* OLEACEAE	<i>Ligustrum</i>	<i>sinense</i>
OROBANCHACEAE	<i>Agalinis</i>	<i>edwardsiana</i>
PASSIFLORACEAE	<i>Passiflora</i>	<i>incarnata</i>
PHYTOLACCACEAE	<i>Rivina</i>	<i>humilis</i>

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PTERIDACEAE	<i>Cheilanthes</i>	<i>alabamensis</i>
RANUNCULACEAE	<i>Clematis</i>	<i>drummondii</i>
SOLANACEAE	<i>Solanum</i>	<i>eleagnifolium</i>
VERBENACEAE	<i>Lantana</i>	<i>urticoides</i>

* not native to Texas

PASSIFLORACEAE (Passion-Flower Family) *Passiflora incarnata*

Maypop Passion-Flower, Apricot Vine

“incarnata” means “flesh-colored” – the fruits are orange-yellow when ripe

long cultivated by Native Americans for edible fruits

called “passion” flower by Spanish missionaries because when they first saw it they believed it was a sign from the Passion of Christ indicating that all the world would some day be converted to Christianity



What is the leaf complexity?

leaf arrangement?

VERBENACEAE (Vervain Family) *Verbena urticoides*
“urticoides” – resembling *Urtica* – nettle

Common Lantana, Texas Lantana

What is the leaf shape?

leaf arrangement?

a paste of the leaves used to treat snakebite in Mexico

an alkaloid, lantamine, is reported to be toxic to cattle and sheep



SOLANACEAE (Nightshade or Potato Family) *Solanum eleagnifolium* Silver-Leaf Nightshade, Love Apple



How would you describe the leaf surface?

leaf shape?

What is this fusion of petals called?

This plant can be lethally poisonous if eaten! The chemical solasodine is used in steroidal hormones.



LAMIACEAE (Mint Family) *Salvia coccinea*
What is the stem shape?

Tropical Sage, Texas Sage, Indian Fire, Scarlet Sage

the leaf arrangement? (this is typical of mints)

many seeds of *Salvia* are roasted and or ground into flour



CACTACEAE (Cactus Family) *Opuntia leptocaulis*

Desert Christmas Cactus, Pencil Cactus

“leptocaulis” means thin-scaled



This picture shows the red fruits. Check out the class web site to see them in all their glorious color!



OROBANCHACEAE *Agalinis edwardsiana*
“edwardsiana” = of the Edwards Plateau

Plateau Gerardia

stems often with reddish-purple coloration

How can you distinguish this species from *A. heterophylla* that you learned last week?



MALVACEAE (Mallow Family) *Malvaviscus arboreus*

Turk's Cap, Drummond's Mallow, Texas Mallow



flower petals remain in this rather closed, twisted shape



This leaf shape is called cordate-ovate.

What is the leaf arrangement?



Fruits are berry-like with 5 carpels and reported to be edible.

stamens are fused together to form a tube through which the style passes

**RANUNCULACEAE (Buttercup Family) *Clematis drummondii* Old-Man's Beard, Texas Virgin's Bower
named for Thomas Drummond (1780-1835) – a Scottish botanist and collector in North America**

What is the leaf complexity?

What is the growth habit of this plant?



fruit described as having “plumose styles persistent on the achenes”



PHYTOLACCACEAE (Pokeweed Family) *Rivina humilis*

Pigeon-berry, Rougeplant, Bloodberry



named for its low-growing, dwarf habit

What is the leaf shape?

fruits have been used as a red dye, leaves and roots are poisonous



CORNACEAE (Dogwood Family) *Cornus drummondii*
Where does this plant get its specific epithet?

Rough-leaf Dogwood

Shrub to 5m tall, twigs sometimes reddish.

Does this dogwood pass the “*Cornus* test”?



What is the leaf arrangement?



ASTERACEAE *Verbesina encelioides*

Cowpen Daisy, Golden Crownbeard, Feverweed



petioles winged and auriculate (earlobe-shaped) at base

foliage has an unpleasant odor

Native Americans reportedly used the plant in treating skin diseases

PTERIDACEAE (Maidenhair Fern Family) *Cheilanthes alabamensis* Smooth Lip Fern, Alabama Lip Fern
***Cheil-* is the latin root for “lip”**

stems reddish-black

leaves look like Christmas trees



* OLEACEAE (Olive Family) *Ligustrum sinense*

Chinese Privet



shrub to 4m tall; poisonous

a problematic invader of native habitats

ASCLEPIADACEAE (Milkweed Family) *Cynanchum barbigerum*

Bearded Swallow-wort, Thicket Threadvine

What is the leaf shape?

What is the plant habit?

How does it grow?



LAMIACEAE *Callicarpa americana*

American Beautyberry, French Mulberry



violet-colored fruits with a distinctive spicy odor

What is the leaf arrangement?

leaf shape?

leaf margin?

