

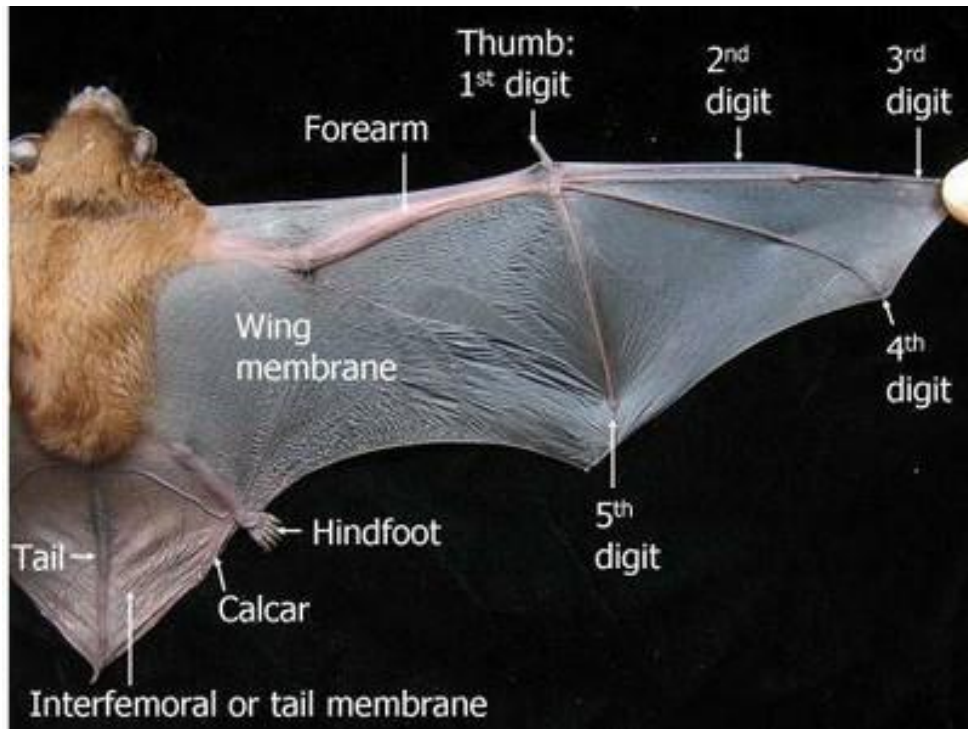
# Lab 3: Chiroptera

Bat Families Pteropodidae, Vespertilionidae,  
Molossidae

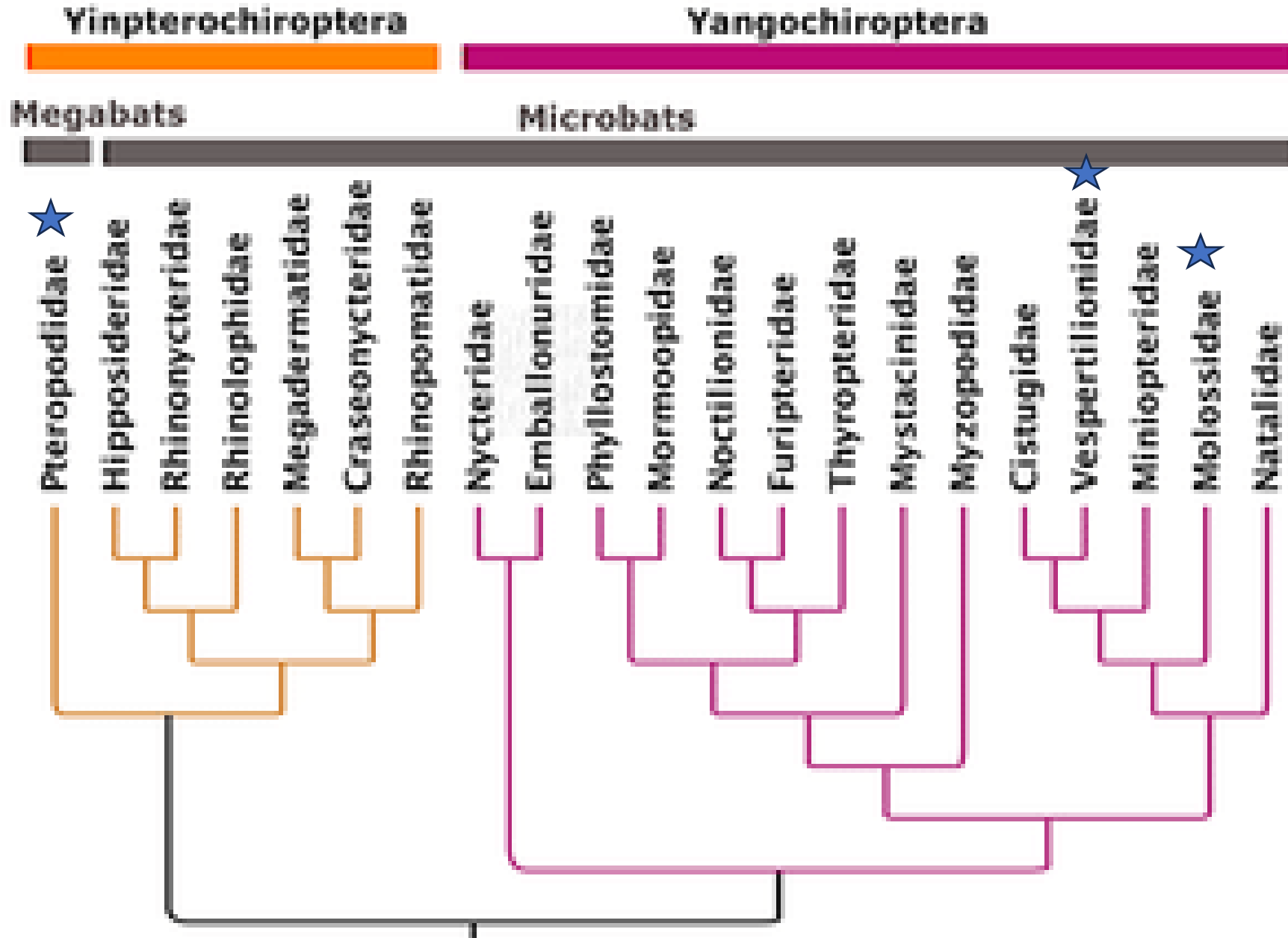


# Anatomy

- Uropatagium: "the membrane that extends between the thighs of a bat and commonly includes the tail"



# Current Chiroptera Phylogeny



# Yinpterochiroptera

## Family Pteropodidae

(Fruit bats/Flying Foxes)

- Genus *Pteropus*

Diagnosis:

- Very Large
- Foredigit 2 is independent (relatively) and is often clawed



# Yangochiroptera

## Family Molossidae

(Free-tailed bats and Mastiff bats)

- *Tadarida brasiliensis*
  - "Mexican Free-Tailed Bat"

Diagnosis:

- Dark fur and Dark Wings
- Tail extends past uropatagium
  - \*Only specimen with a "true" free tail



# Yangochiroptera

## Family Vespertilionidae

(Vespertilionid or common bats)

### Genus *Lasiurus*- Hairy uropatagium!

- *Lasiurus blossevillii* (*Western red bat*)
  - Red fur, smaller, hair on uropatagium thicker and covers more area
- *Lasiurus borealis* (*Eastern Red Bat*)
  - Red fur, bigger, hair on uropatagium thinner and doesn't extend fully to tail
- *Lasiurus cinereus* (*Hoary Bat*)
  - **BE VERY CAREFUL** (only specimen in a collection from Idaho!)
  - Biggest bat skin in collection, dark fur with grey streaks, fur on uropatagium



# Yangochiroptera

## Vespertilionidae

(Vespertilionid or common bats)

### Genus *Corynorhinus*

- *Corynorhinus townsendii* (*Townsend's Big-Eared Bat*)
  - Bat with the longest ears, no extra joints in the uropatagium

### Genus *Antrozous*

- *Antrozous pallidus* (*Pallid Bat*)
  - Second biggest ears, an extra joint between the legs and tail in the uropatagium



# Yangochiroptera

## Vespertilionidae

(Vespertilionid or common bats)

### Genus Eptesicus

- *Eptesicus fuscus* (*Big brown bat*)
  - Large wingspan, light brown fur

### Genus Parastrellus

- *Parastrellus hesperus* (*canyon bat*)
  - Very small size, light highlighted fur
  - **TAG IS INCORRECT!**
  - Says "*Pipistrellus hesperus*", has since been reclassified





# Yangochiroptera

## Vespertilionidae (Vespertilionid or common bats)

### Genus Lasiionycterus

- *Lasiionycterus noctivagans* (Silver-haired bat)
  - Dark fur with silver streaks



# Yangochiroptera

## Vespertilionidae

(Vespertilionid or common bats)

### Genus *Myotis*

- *Myotis thysanodes* (*Fringed myotis*)
  - Fringed bottom of uropatagium



# Yangochiroptera

## Vespertilionidae

(Vespertilionid or common bats)

### Genus *Myotis*

- *Myotis evotis* (*Long-Eared Myotis*)
  - 3rd longest ears (longest of any myotis), dark ears, lighter body



# Yangochiroptera

## Vespertilionidae

(Vespertilionid or common bats)

### Genus *Myotis*

- *Myotis lucifugus* (little brown bat)
- *Myotis yumanensis* (Yuma myotis)
- *Myotis volans* (long-legged myotis)
  - Not pictured here

