



Species List

Rousettus lanosus (Long-haired Fruit Bat)

Epomops franqueti (Franquet's Epauletted Fruit Bat)

Balionycteris maculata (Spotted-winged Fruit Bat)

Epomophorus wahlbergi (Wahlberg's Epauletted Fruit Bat)

Megaloglossus woermanni (Woermann's Long-tongued Fruit Bat)

Myonycteris torquata (Little Collared Fruit Bat)

Nycteris thebaica (Egyptian Slit-Faced Bat)

Rhinolophus hipposideros (Lesser Horseshoe Bat)

Saccopteryx bilineata (Greater Sac-winged Bat)

Rousettus amplexicaudatus (Geoffroy's Rousette Fruit Bat)

Macroglossus minimus (Lesser Long-tongued Fruit Bat)



Fruit bats (Megabats/Pteropodidae)



long-tongued nectar bat (Macroglossus minimus)



long-haired fruit bat (Stenonycteris lanosa)



spotted-winged fruit bat (*Balionycteris* maculata)

Franquet's epauletted fruit bat (*Epomops* franqueti)

Rhinolophidae

Nycteridae

Emballonuridae



lesser horseshoe bat (Rhinolophus hipposideros)



egyptian slit-faced bat (Nycteris thebaica)



greater sac-winged bat (Saccopteryx bilineata)



Carlito syrichta

OUTGROUP

Philippine Tarsier

Native to the Philippines, particularly found on several islands including Bohol, Leyte, Mindanao, and Siargao.

Small primate with large, round eyes that provide excellent night vision. Their head can rotate almost 180 degrees, and they have long fingers and toes adapted for grasping branches. Their fur is typically soft and dense, ranging from gray to brown.



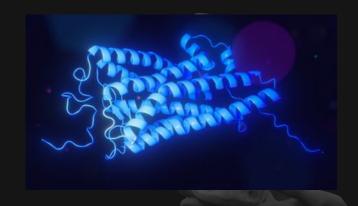
GENES for analysis

MT-CYB gene

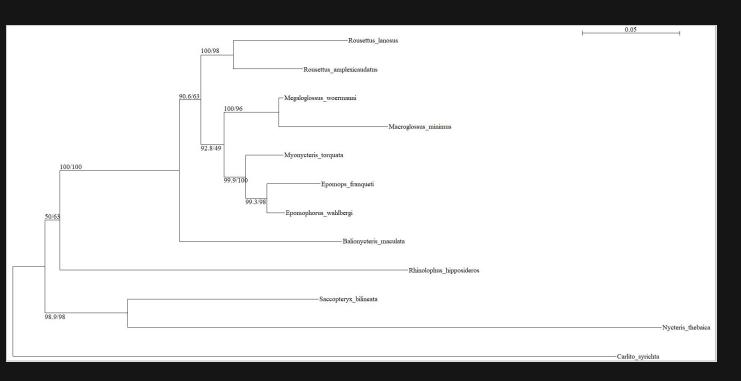
Cytochrome b is commonly used as a region of mitochondrial DNA for determining phylogenetic relationships between organisms, due to its sequence variability.

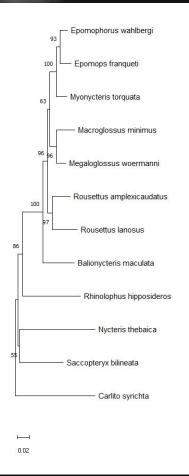
OPN1SW gene

Short-wave sensitive opsin 1, a protein that is essential for normal color vision.

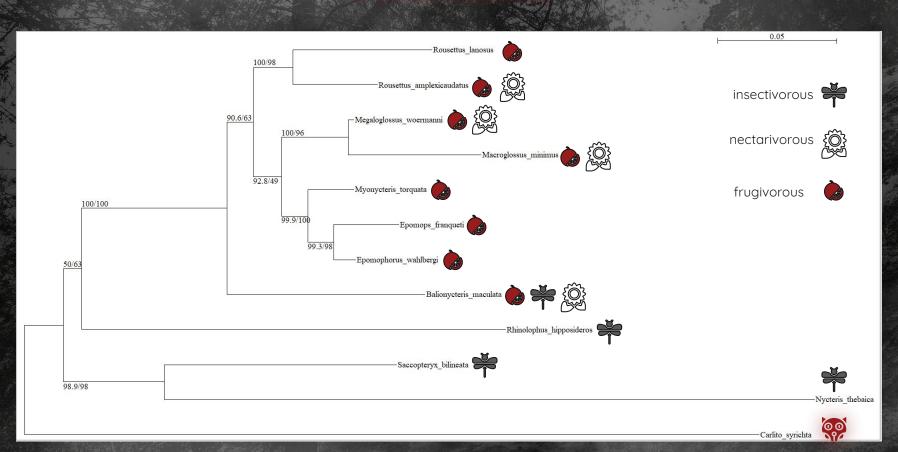


Maximum-Likelihood tree

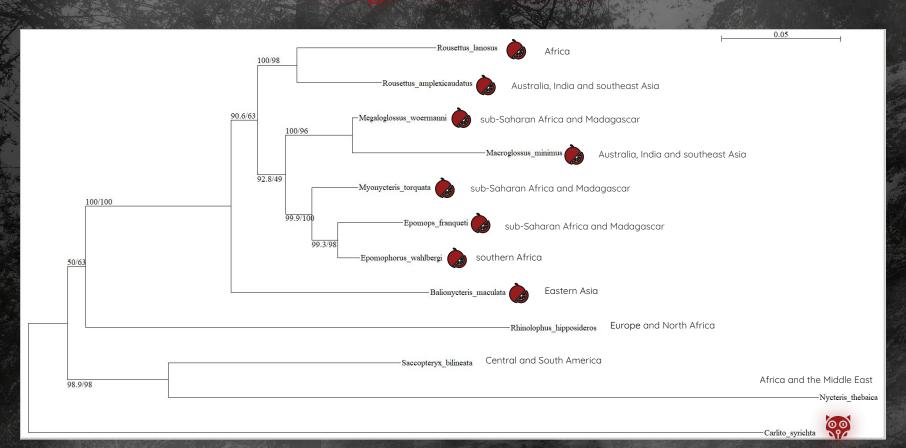




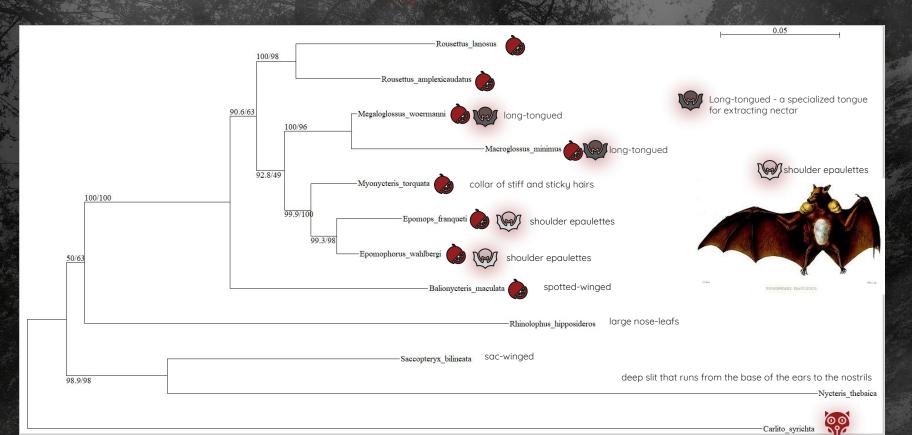
Food Habits

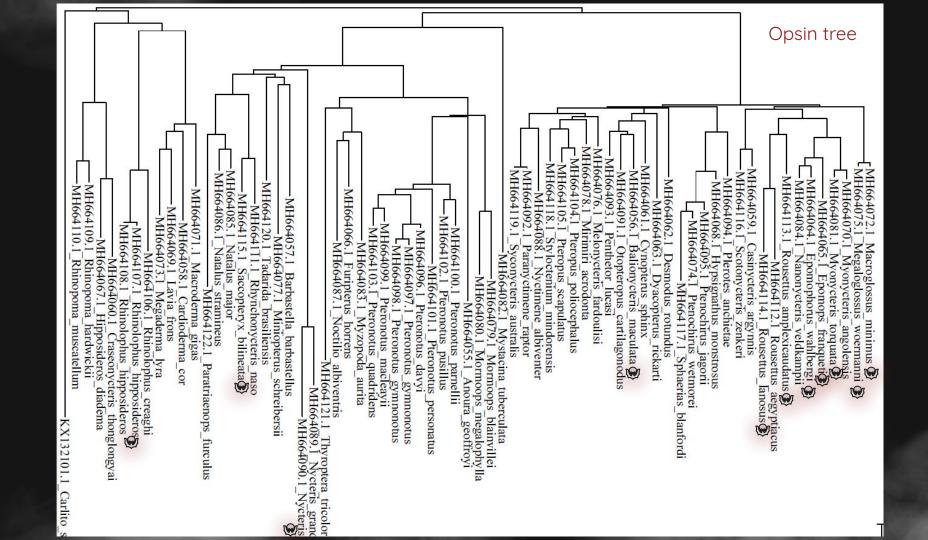


Range and Habitat



Phenotypic Characters





RESULTS

- Fruit bats form monophyletic group.
- Species that shared common phenotypic trait (such as long tongue and shoulder epaulettes) are grouped together.
- Rousettus amplexicaudatus and Rousettus Ianosus are grouped together. However, Rousettus Ianosus now is Stenonycteris Ianosus: the only member of the genus Stenonycteris. It was formerly classified in the genus Rousettus until a 2013 phylogenetic study found it to belong to its own genus and tribe.
- Saccopteryx bilineata and Nycteris thebaica are close to each other on the tree.

THANKS!

DO YOU HAVE ANY QUESTIONS?

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