

Froghoppers

Diversity and Classification

(Hemiptera: Auchenorrhyncha:
Cercopoidea)

by K.G.A. Hamilton



... so called because they commonly look like little frogs ...

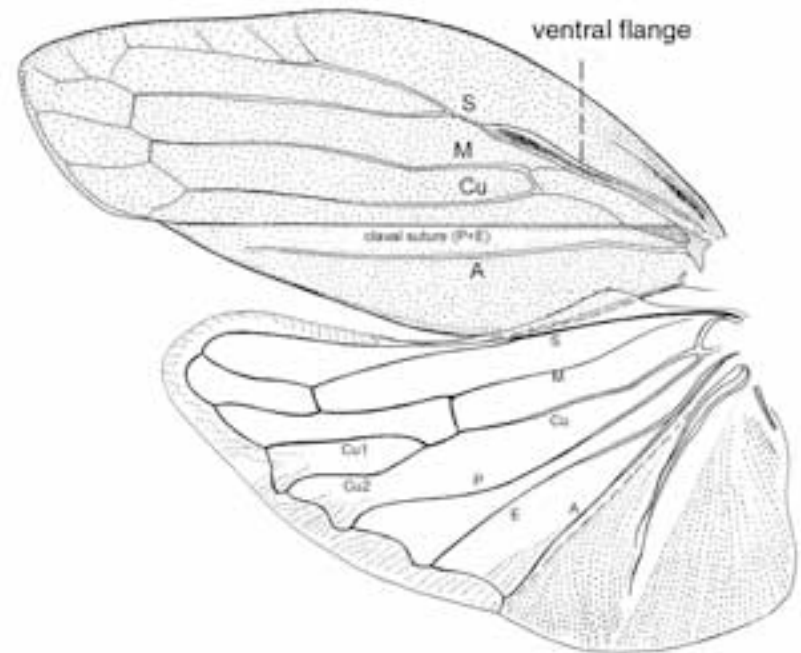
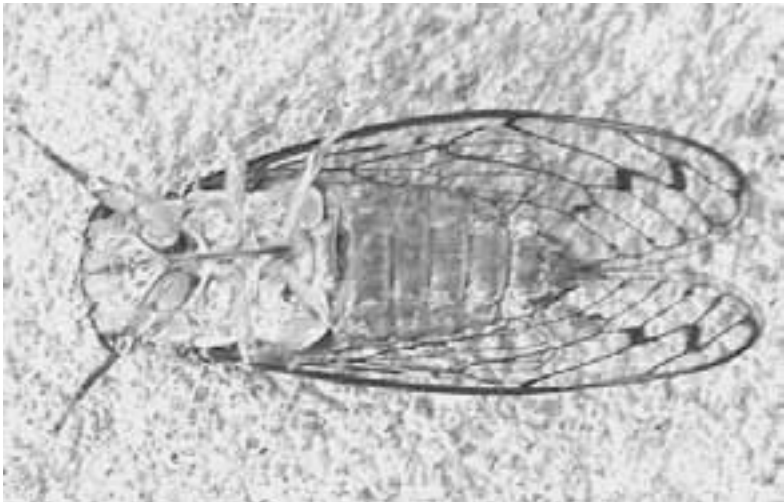




Froghoppers have a lobe on the middle coxa; cicadas have it on the hind coxa.



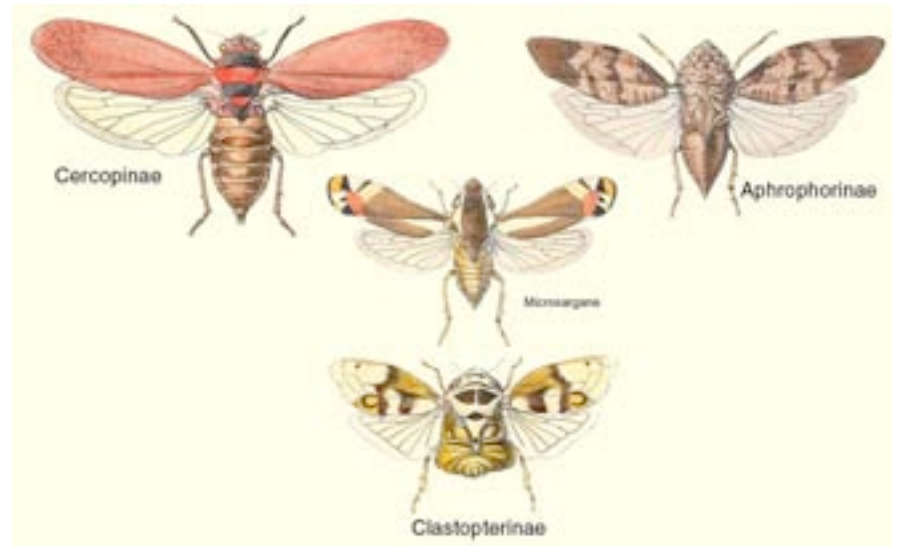
... but on a fossil, such structures are hard to see!



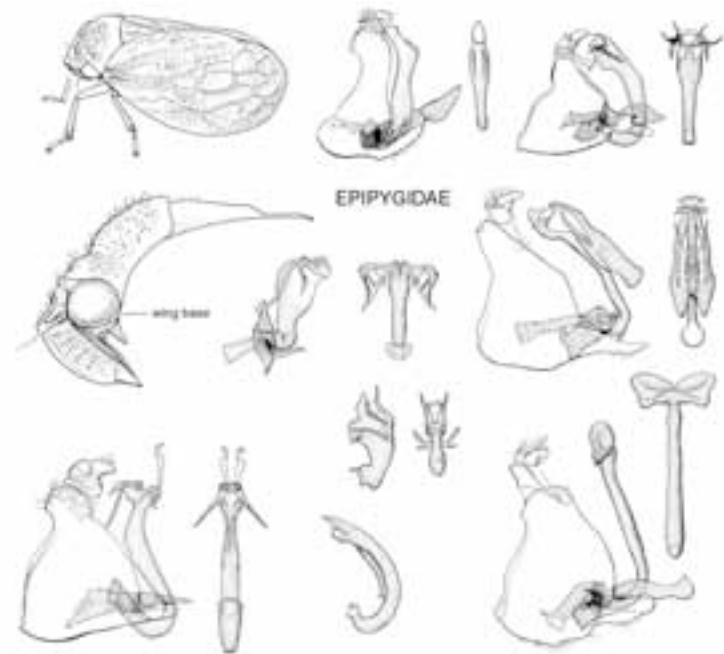
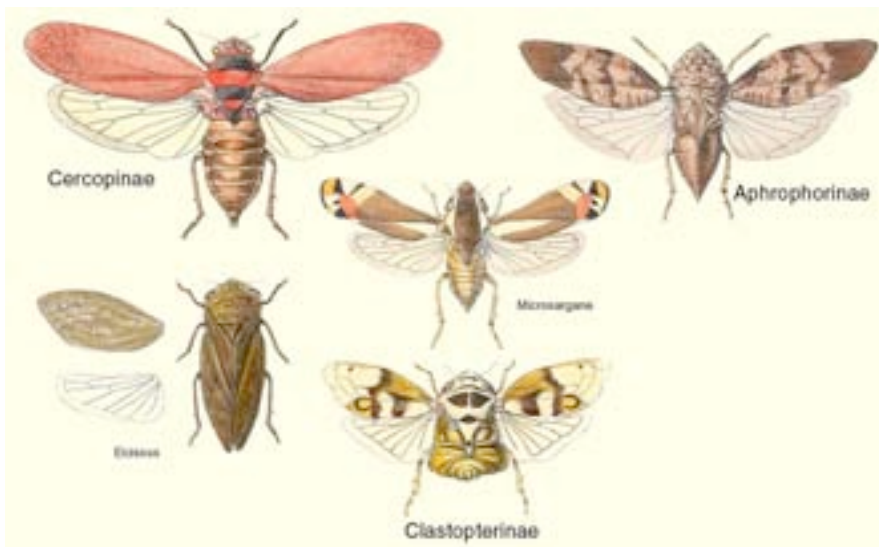
Major froghopper groups



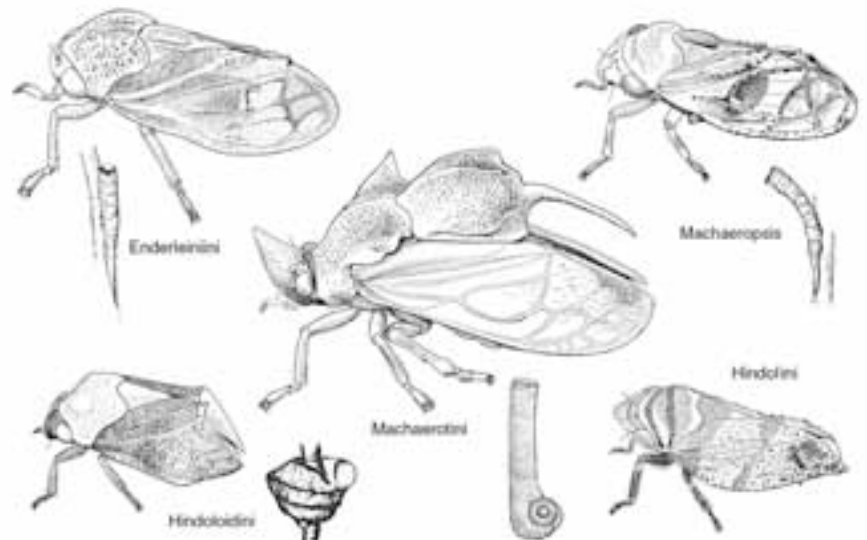
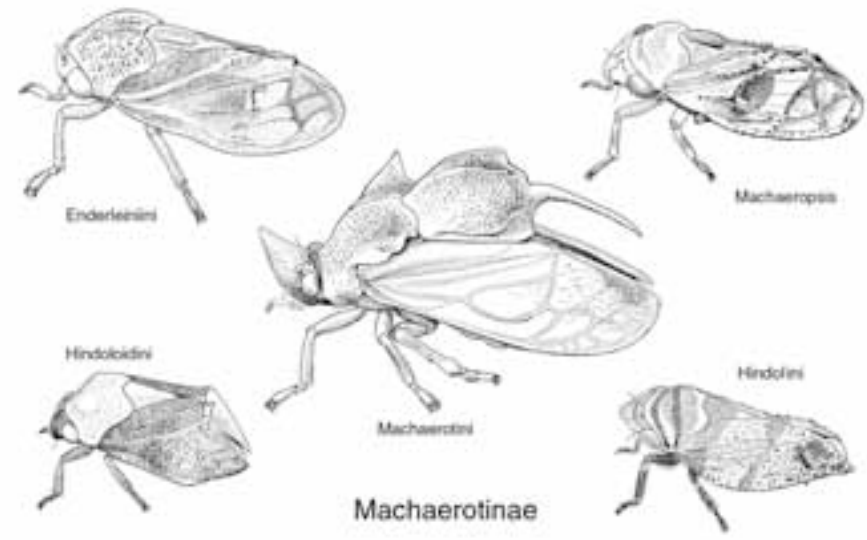
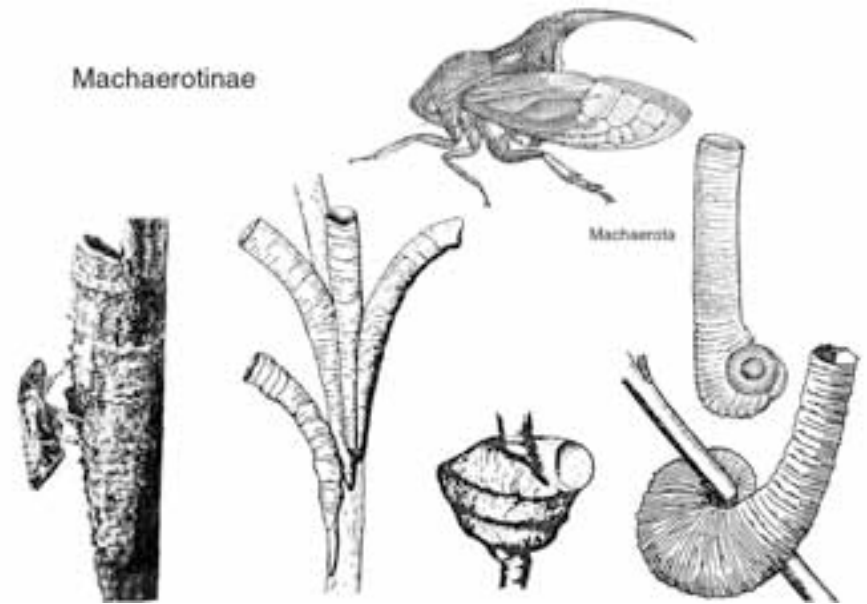
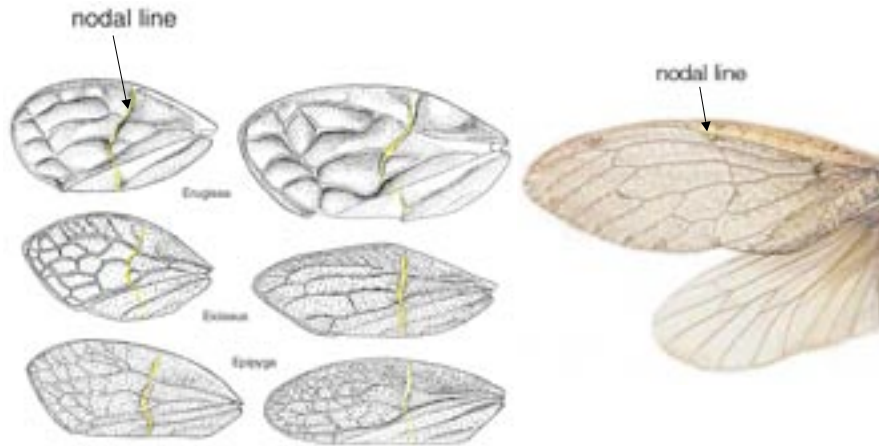
Major froghopper groups



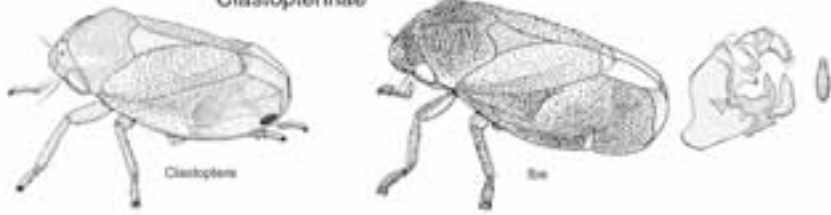
Major froghopper groups



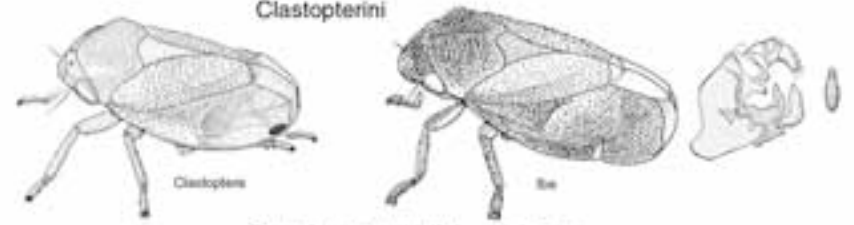
Epipygid wings compared to cicada wings



Clastopterinae



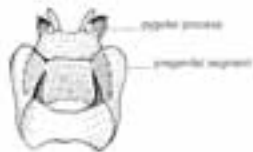
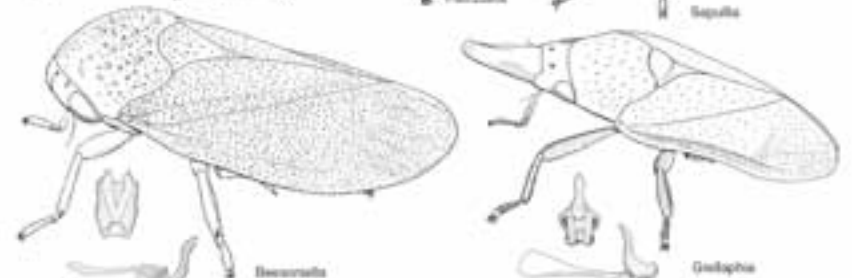
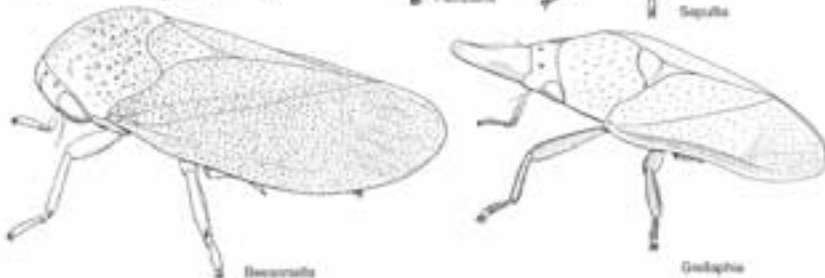
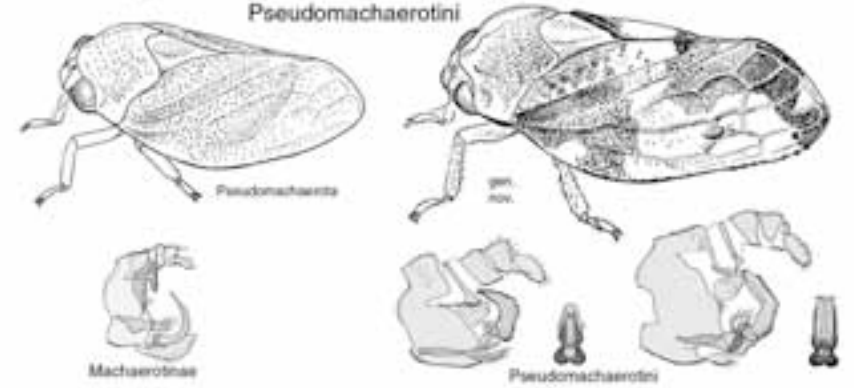
Clastopterini



Machaerotinae

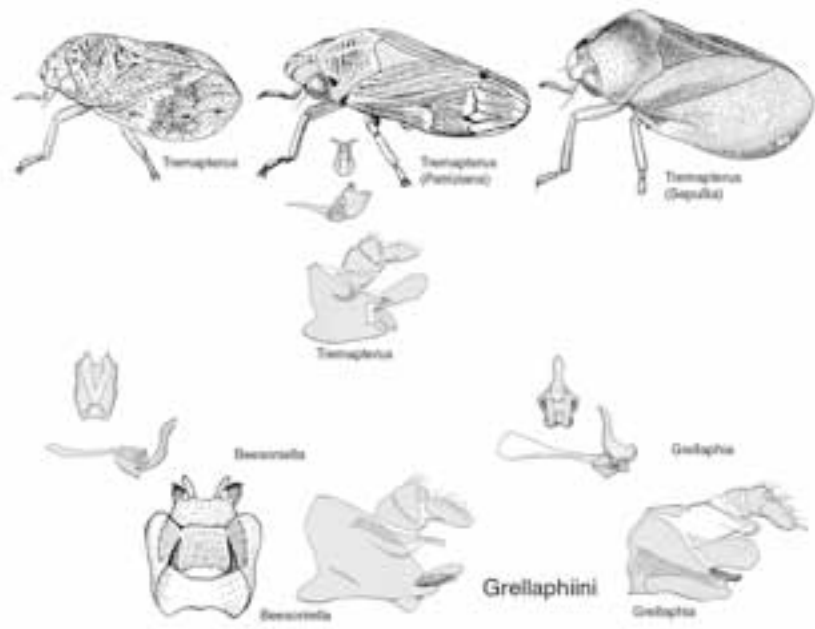


Pseudomachaerotini

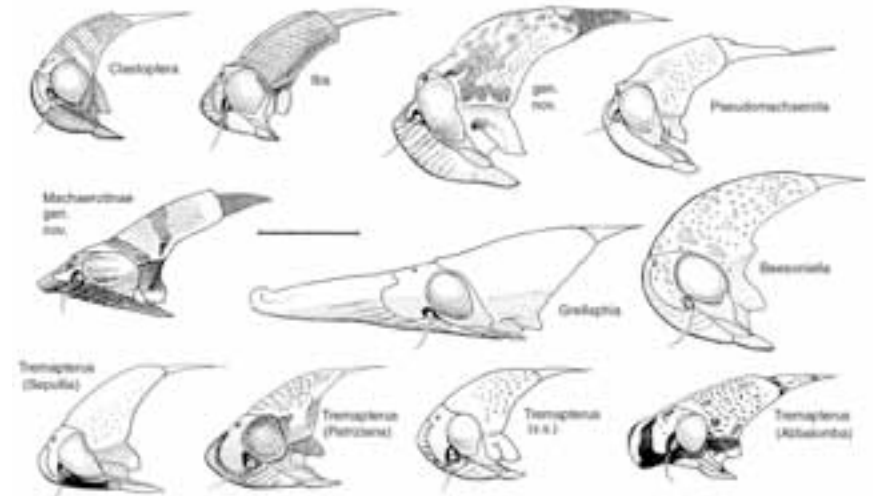


Grellaphiini

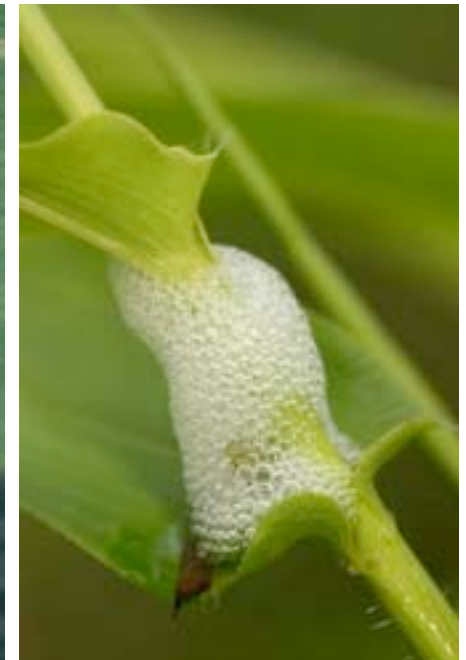
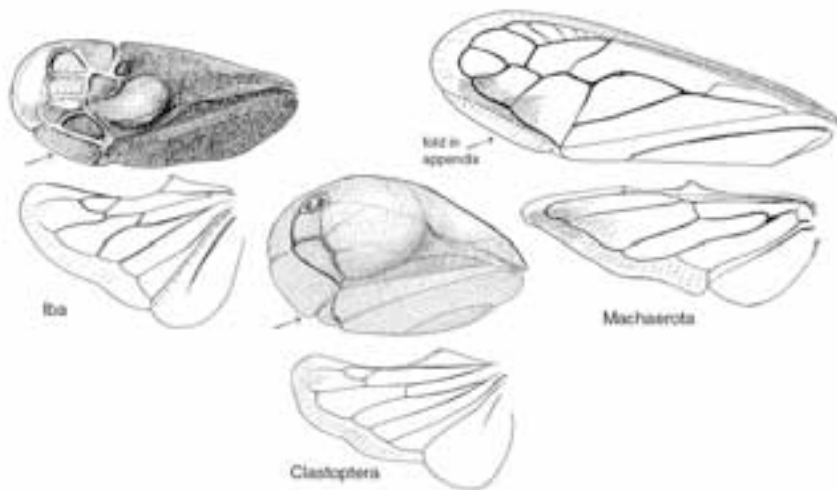




Clastopteridae sensu lato



Clastopterid wings

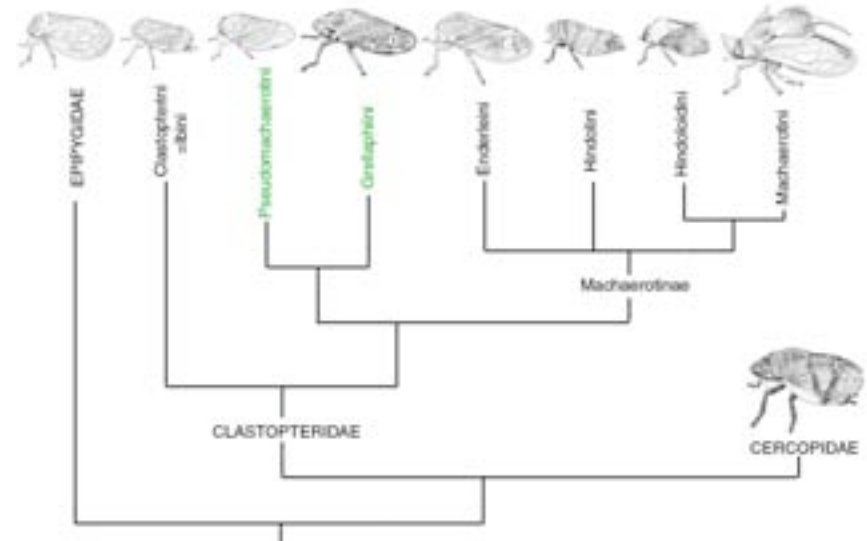


Clastopterid and Cercopid nymphs

Lepyronia Clastoptera

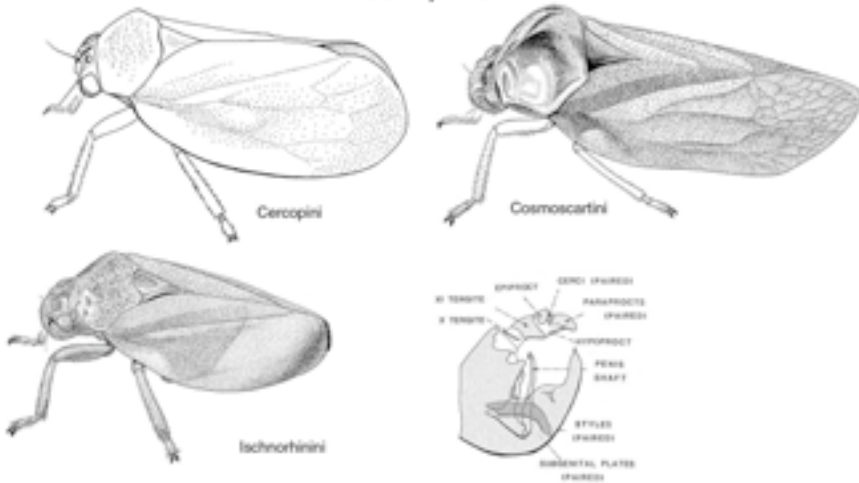


Taxa in green are undescribed



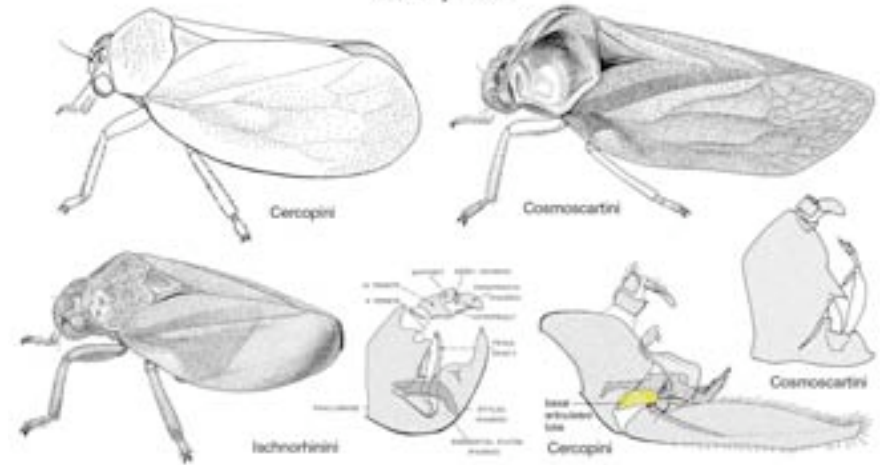
Cercopidae sensu stricto

Cercopinae

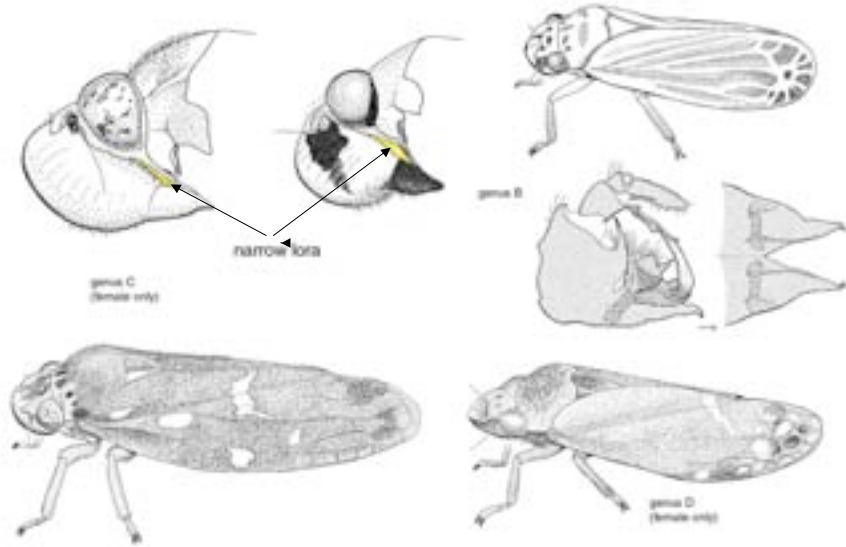


Cercopinae sensu lato

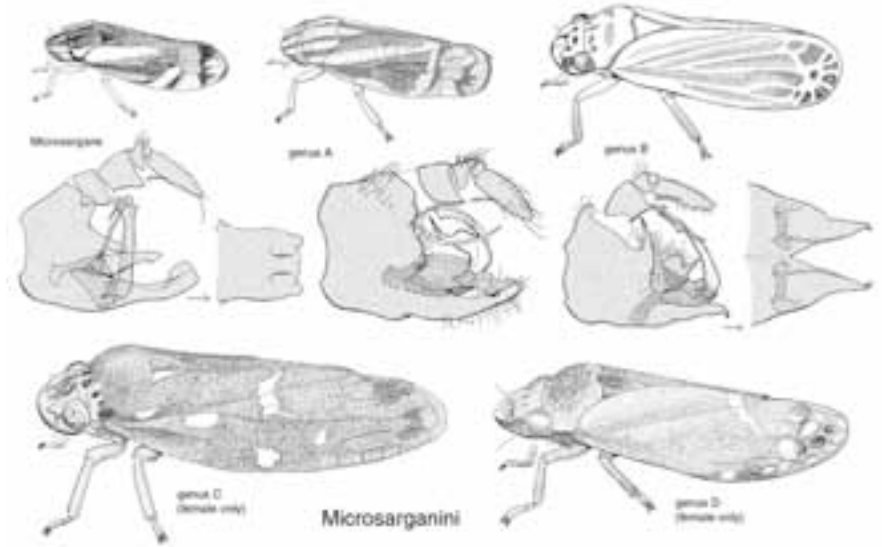
Cercopinae



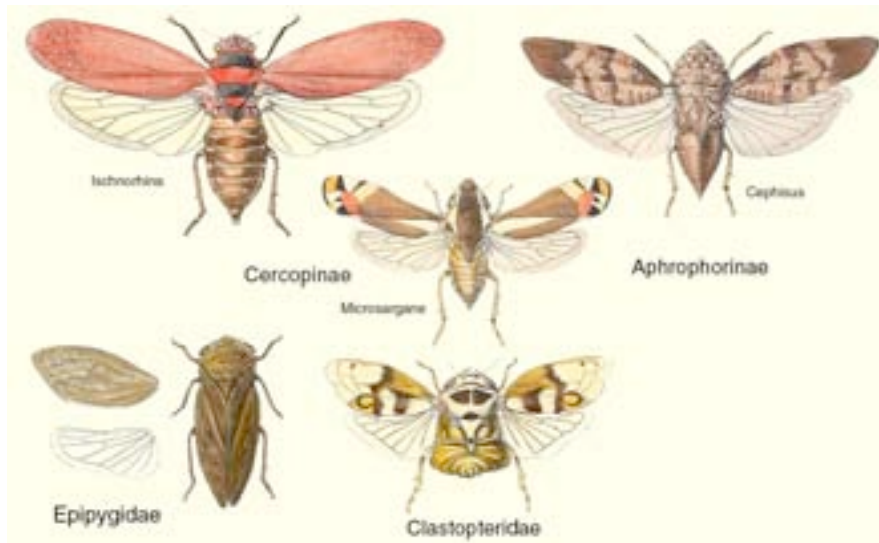
Cercopinae?



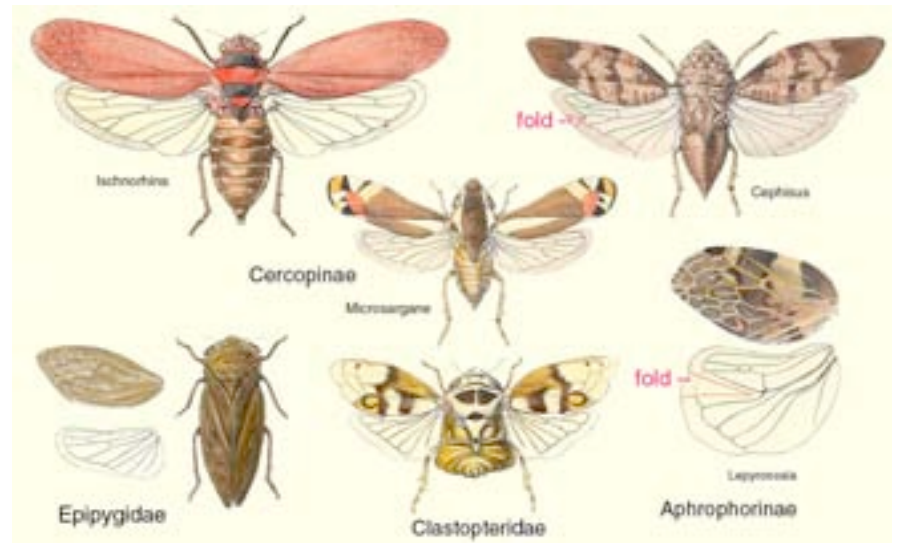
Cercopinae?

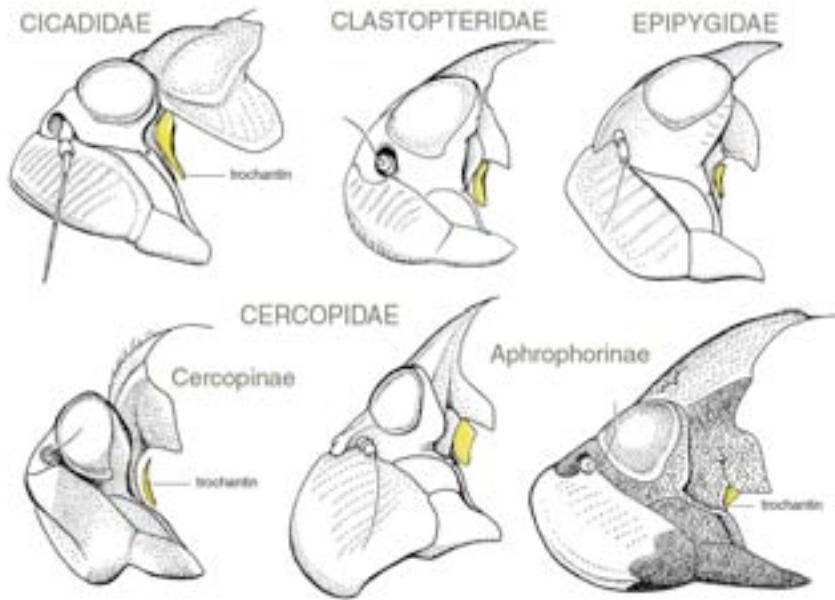


Major froghopper groups

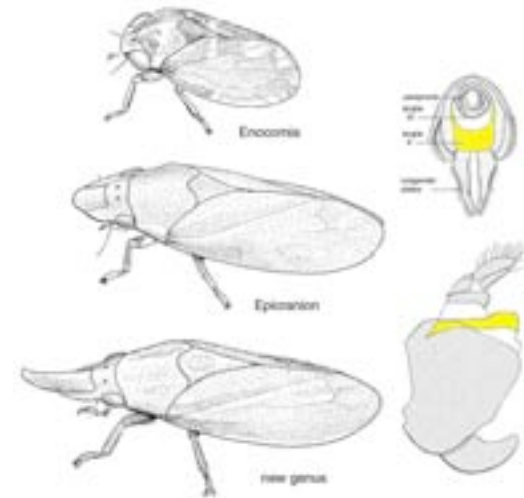


Major froghopper groups

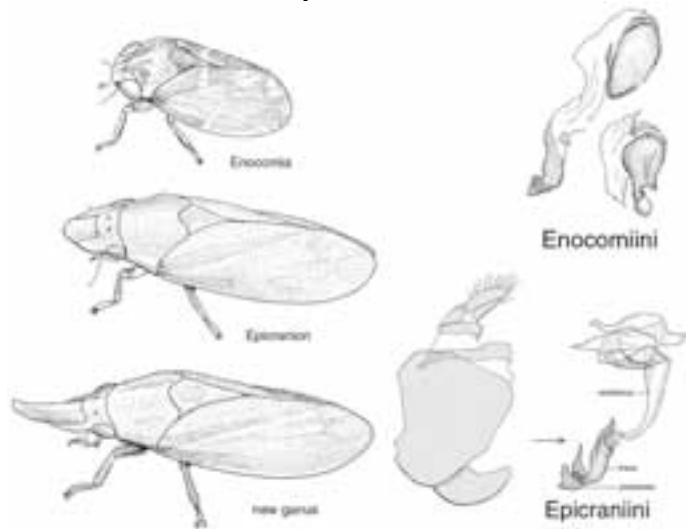




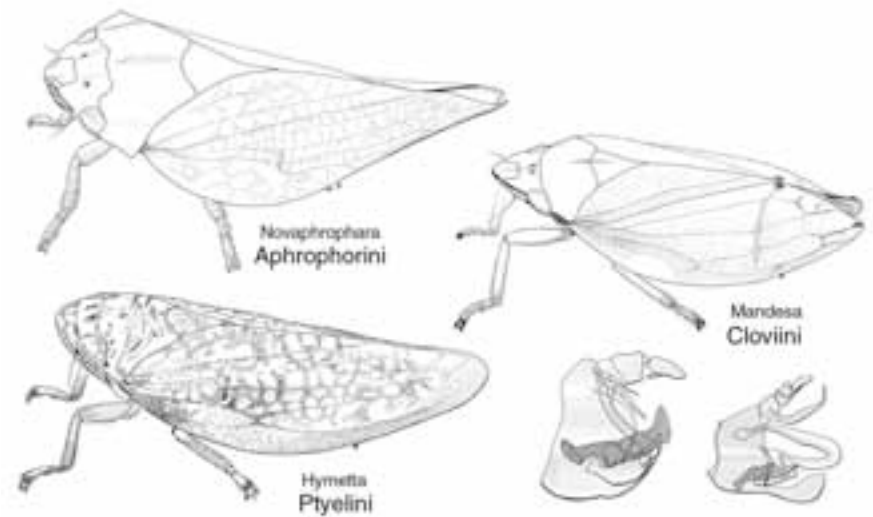
Epicraniinae new subfamily

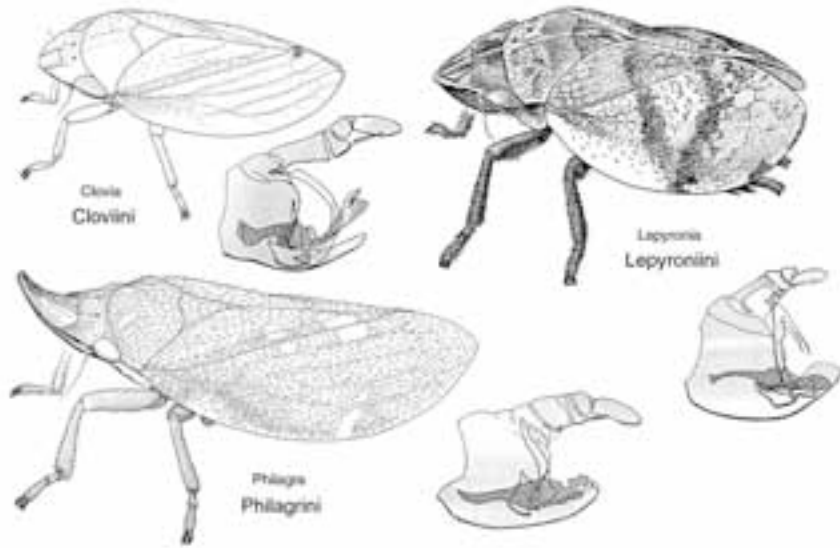


tribes of Epicraniinae

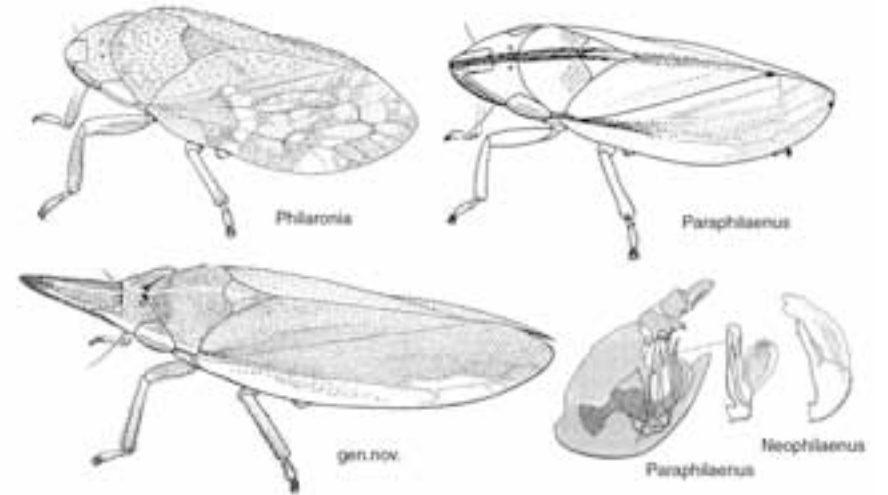


Aphrophorinae sensu stricto

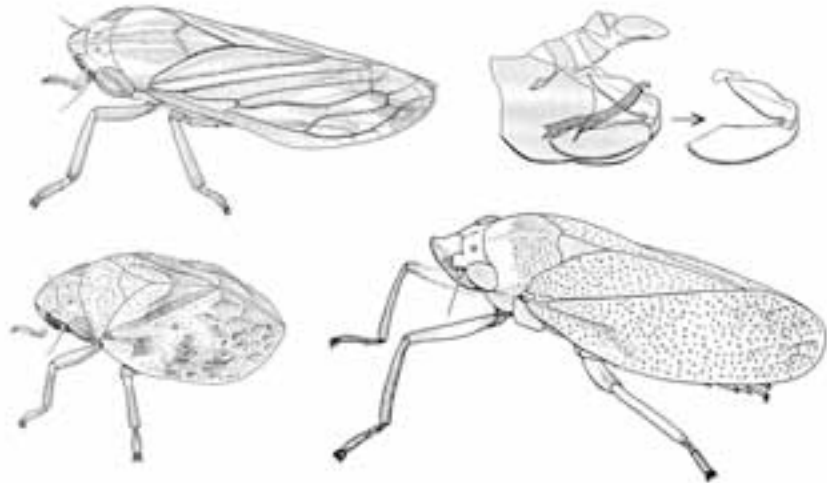




Philaenini



Orthoraphini



Phylogeny of Cercopidae

