Selected apomorphies of addressed clades:

0. Holometabola: external wing buds absent in larval stages
1. Aparaglossata: paraglossae vestigial or absent, without muscles
2. Neuropteroidea: adult head prognathous or slightly inclined
3. Megaloptera: setiferous lateral abdominal gills present in larvae
4. Neuroptera + Megaloptera: aquatic larvae (with reversal)
5. Coleopterida: metathorax enlarged, hindwings used as flight organs (posteromotorism)
6. Mecopterida: larval Musculus craniodististipitalis present
7. Mecopterida + Siphonaptera: muscle connecting profrugal arms present