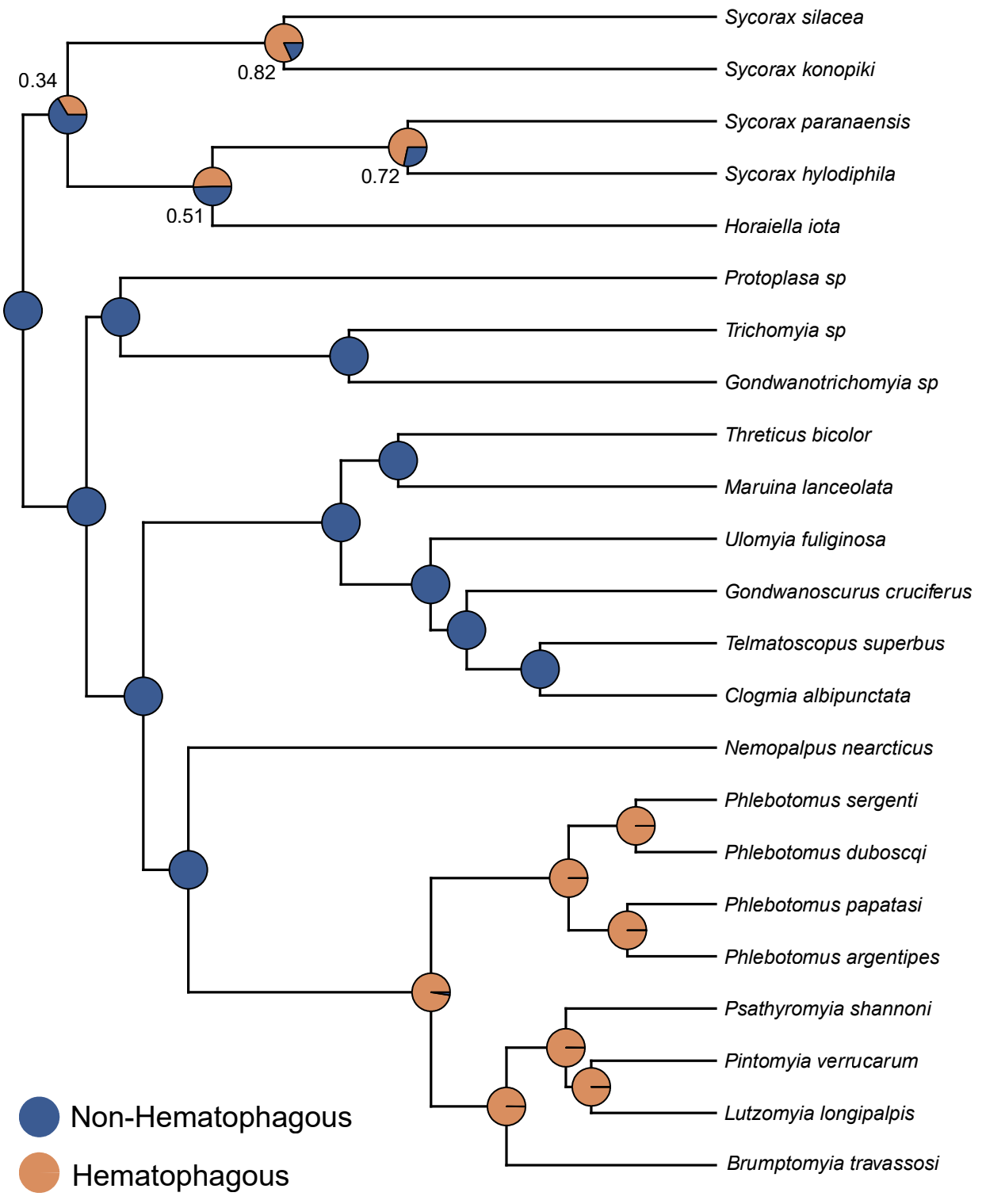



**Figure S1**: estimated marginal probabilities of hematophagy, under ARD model. orange circles represent hematophagous ancestors; blue circles non-hematophagous. Marginal probability between 0.95 and 0.05 showed in numbers.

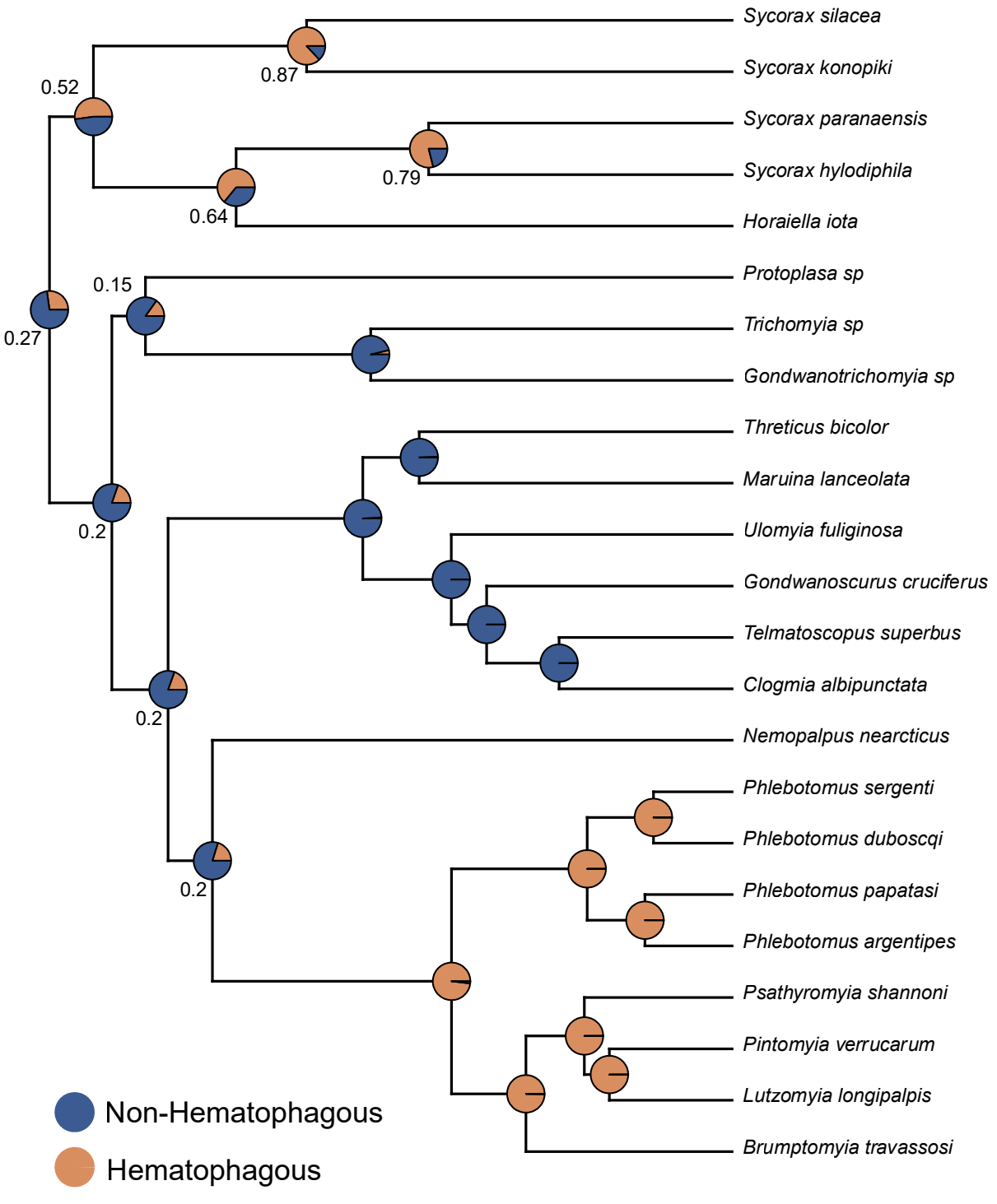



**Figure S2**: estimated marginal probabilities of hematophagy, avereged models. orange circles represent hematophagous ancestors; blue circles non-hematophagous. Marginal probability between 0.95 and 0.05 showed in numbers.

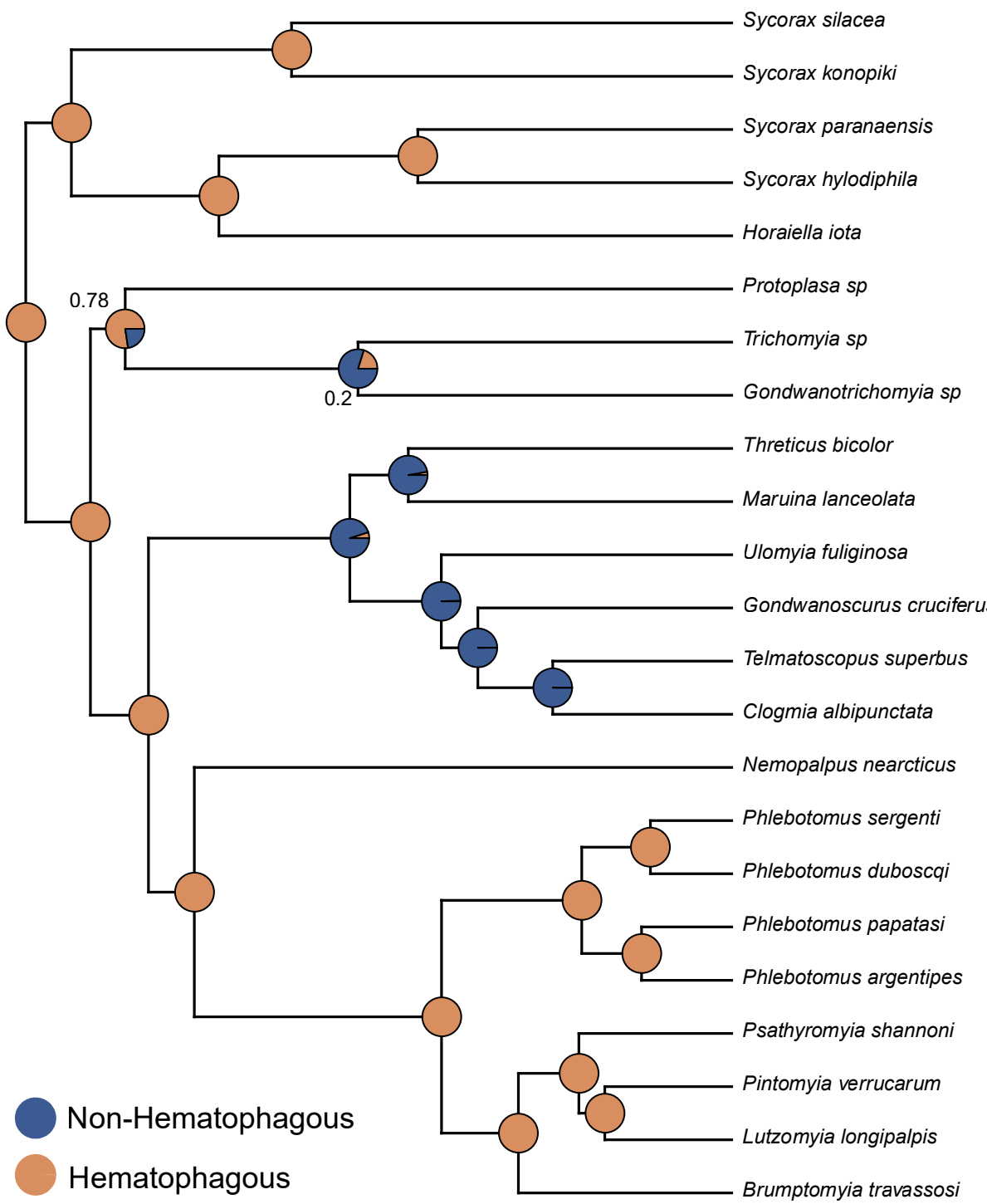



**Figure S3**: estimated marginal probabilities of hematophagy, avereged models. orange circles represent hematophagous ancestors; blue circles non-hematophagous. Marginal probability between 0.95 and 0.05 showed in numbers.