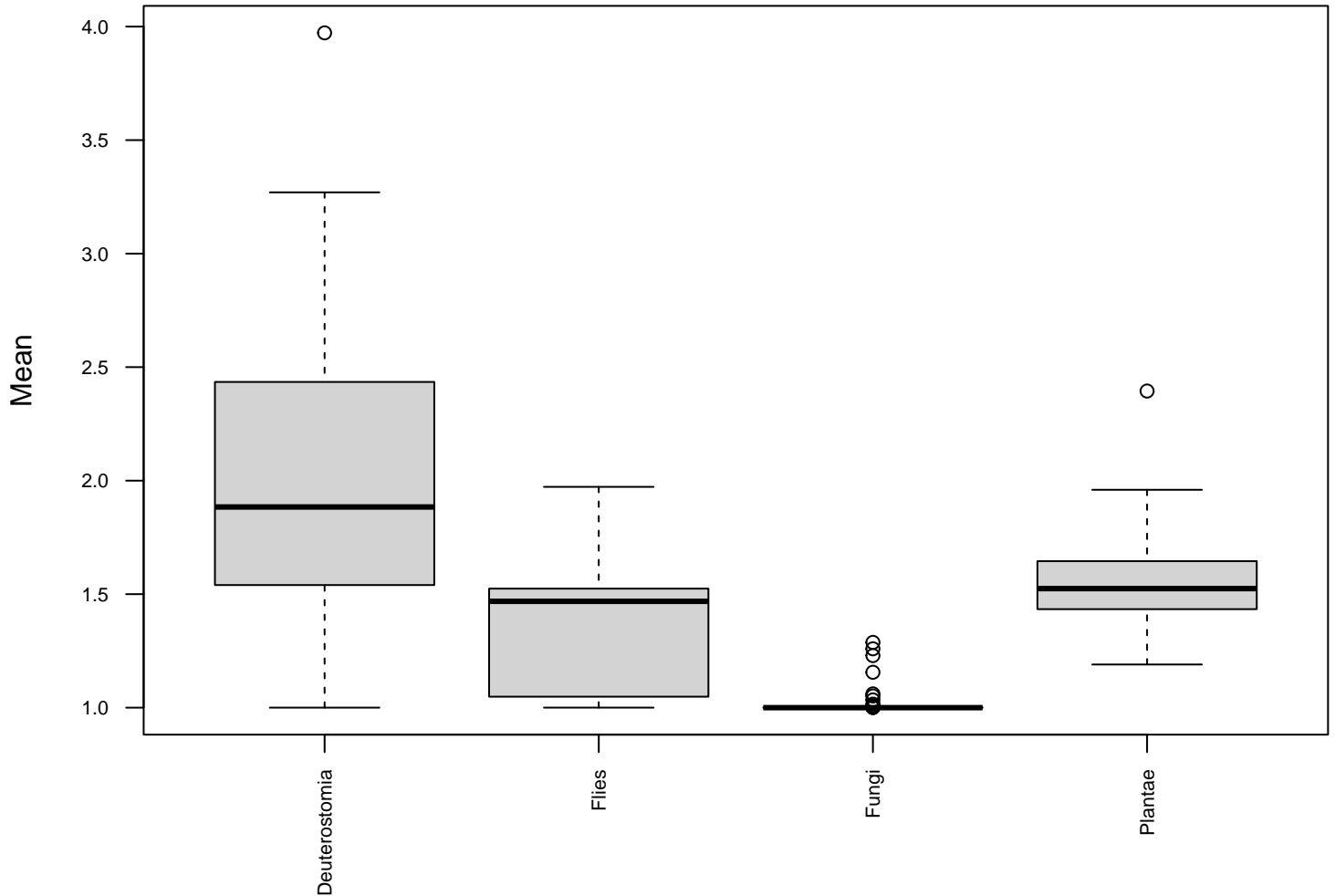


## MEAN COMPLEXITY METRIC BOXPLOTS

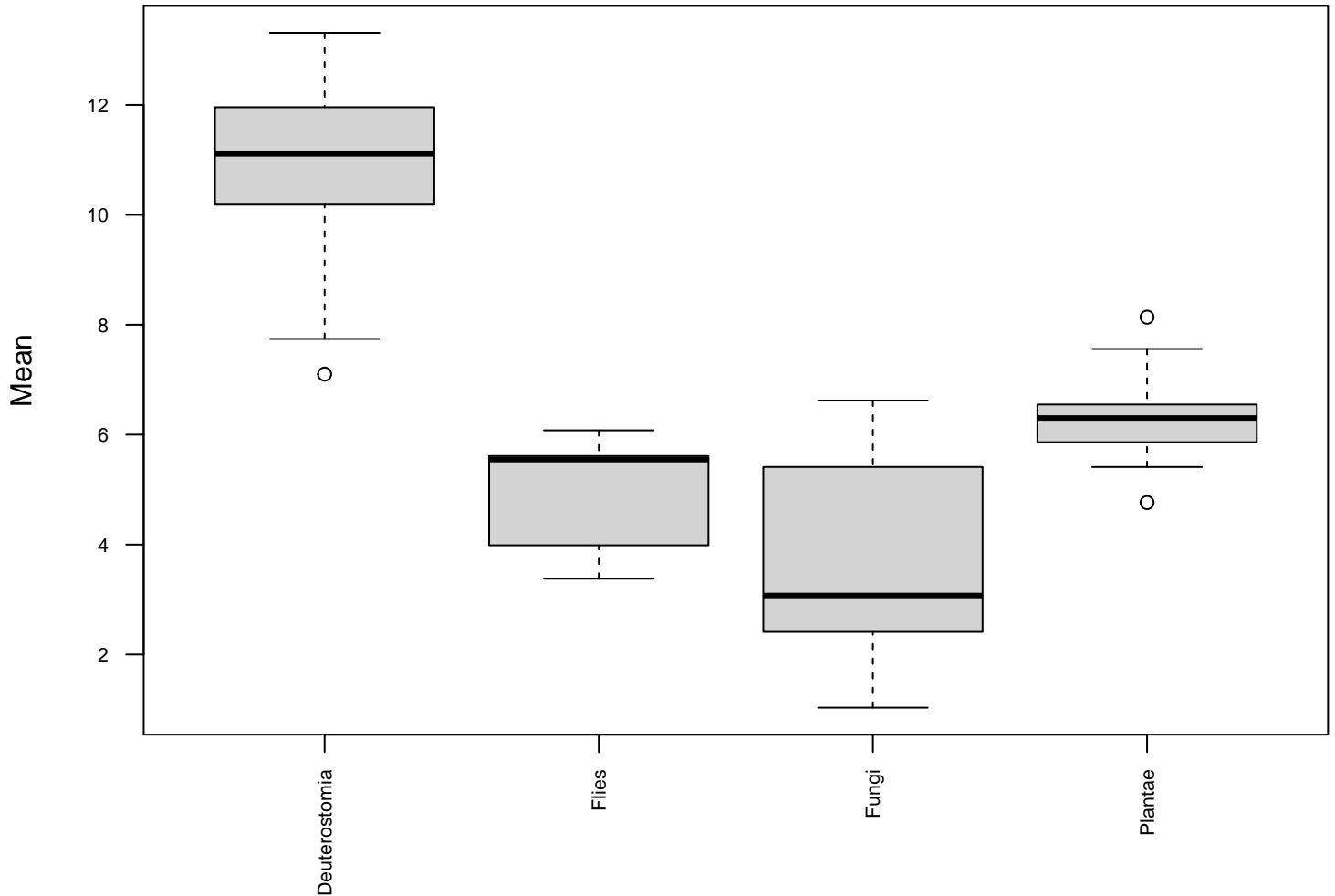
Figures below account for mean metric (TpG, EpT, and EpG) box and whisker plots among a variety of higher-order grouping among Deuterostomes, *Drosophila*, Plantae, and Fungi.

Kruskal-Wallis tests were performed, and statistical values are recorded in the sub-header. Y-axes are the metric values, and x-axes have group labels.

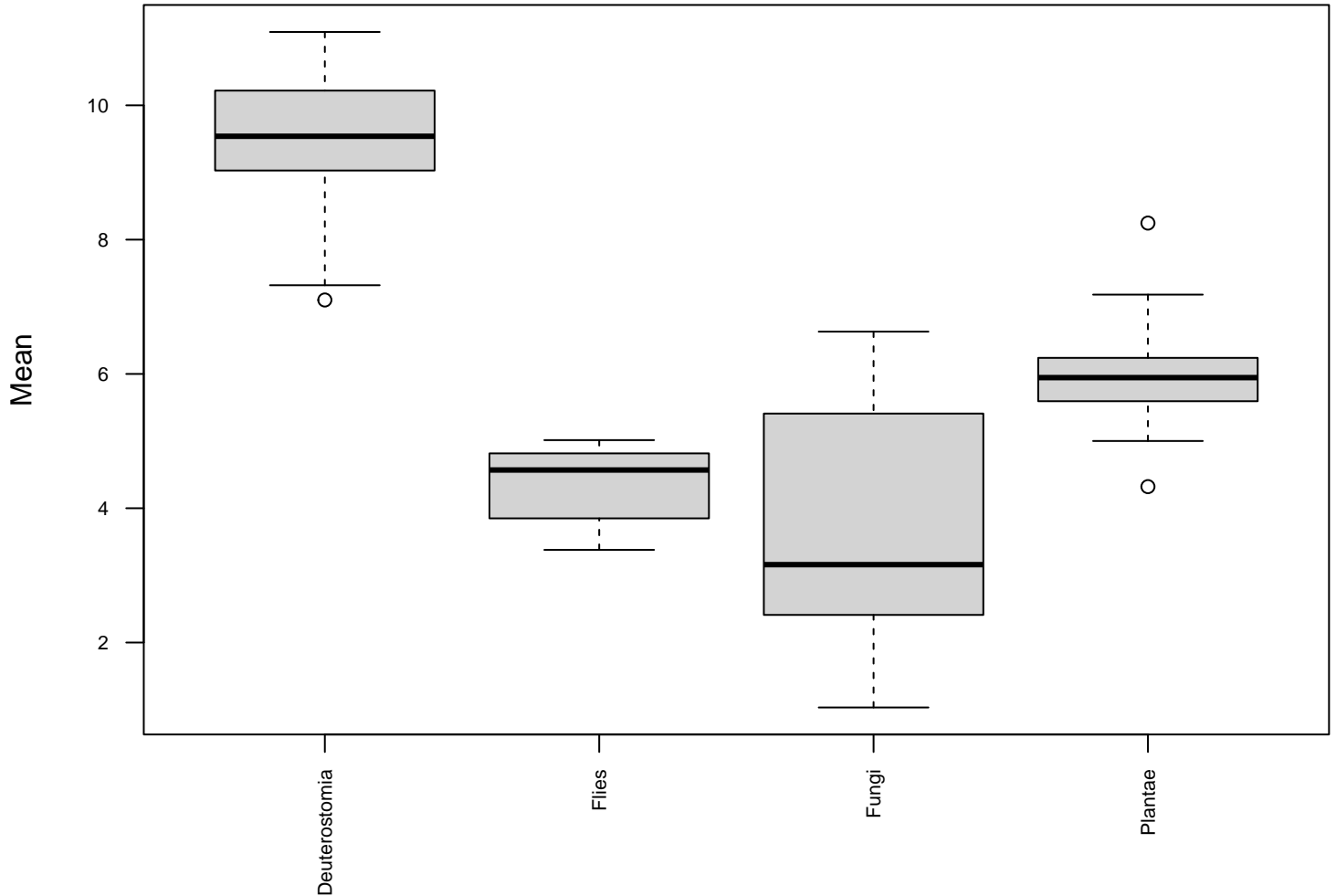
**All Groups Mean TpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 148.4 p= 5.777e-32**



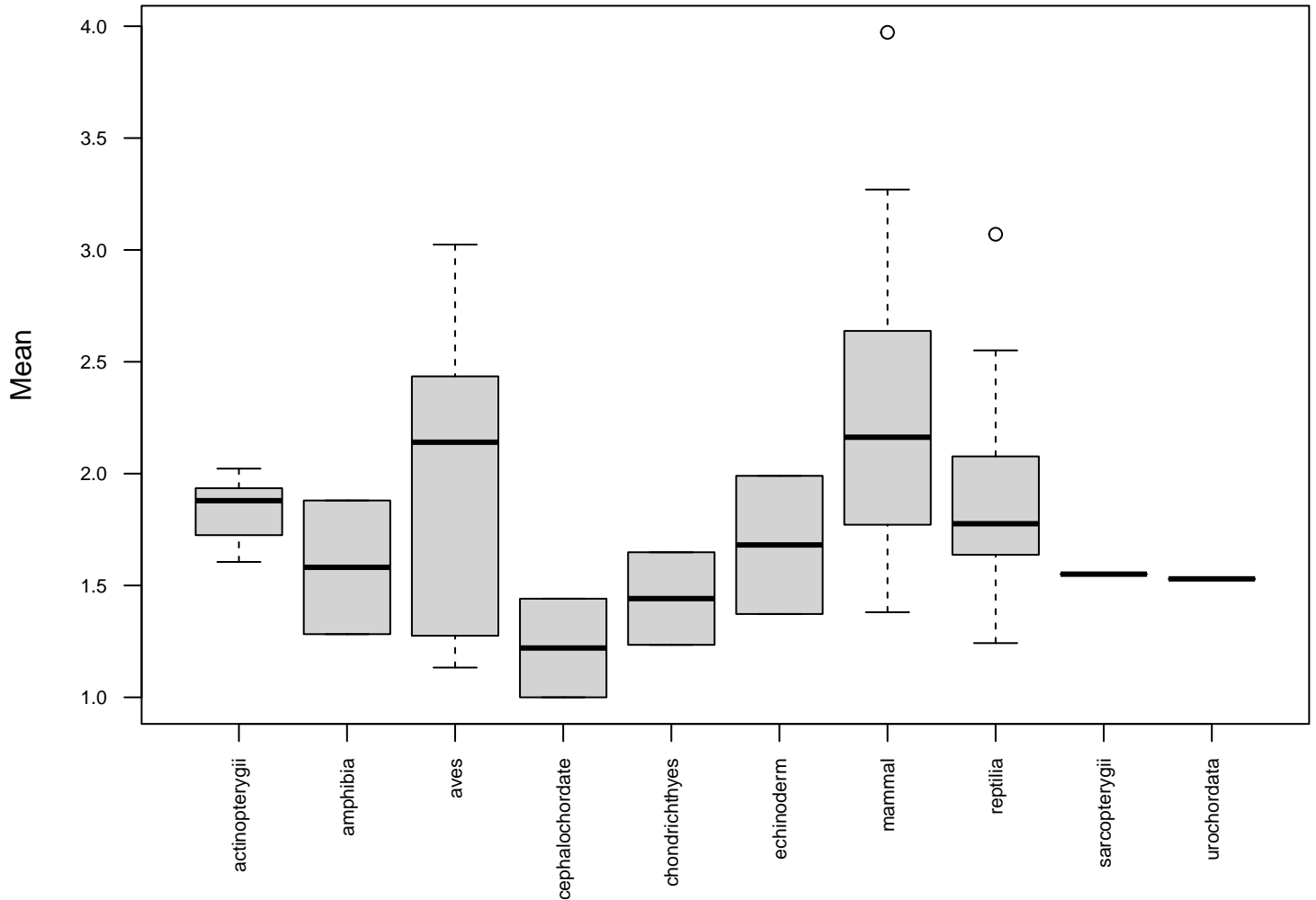
**All Groups Mean EpT**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 160.9 p= 1.19e-34**



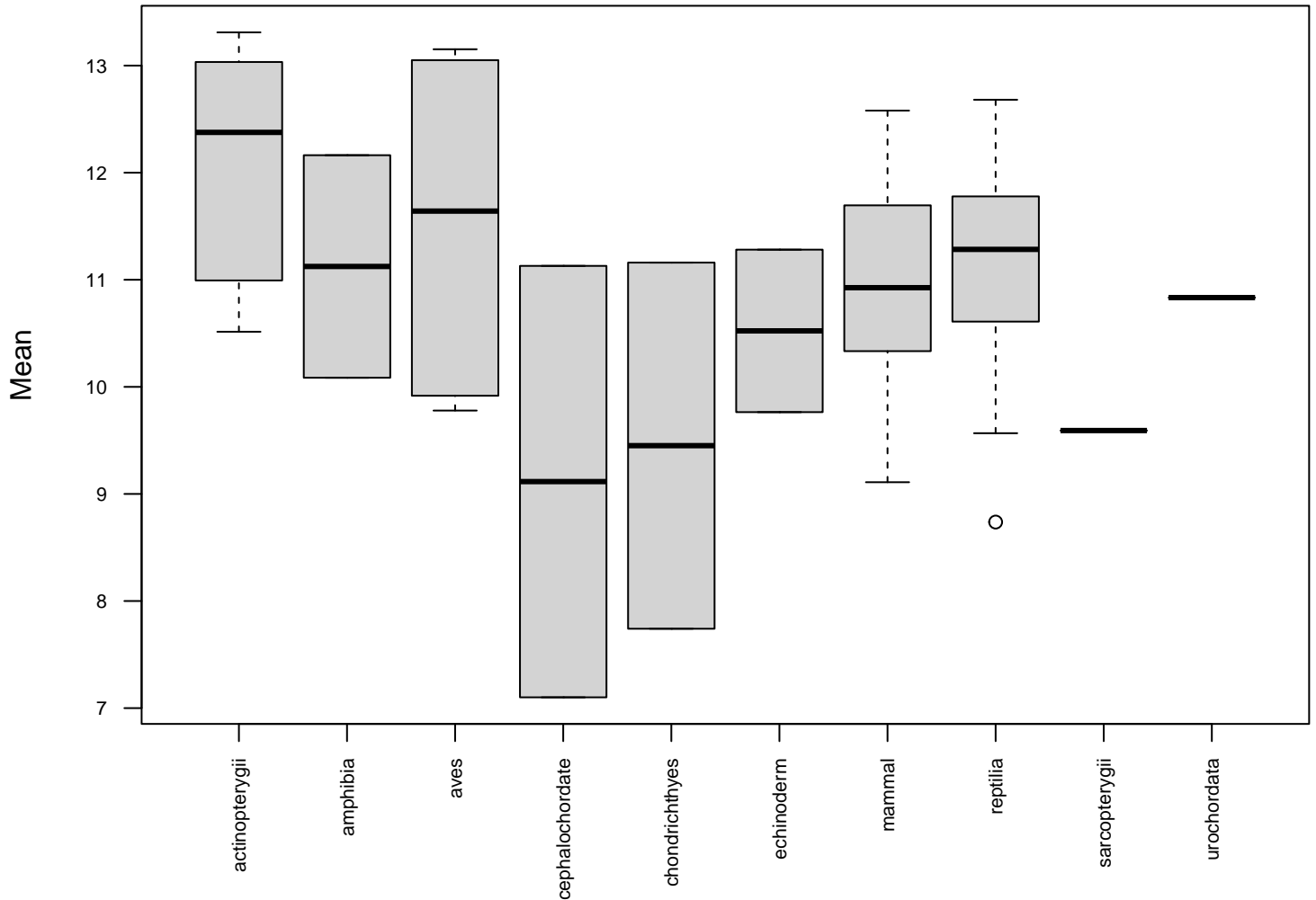
**All Groups Mean EpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 155.1 p= 2.084e-33**



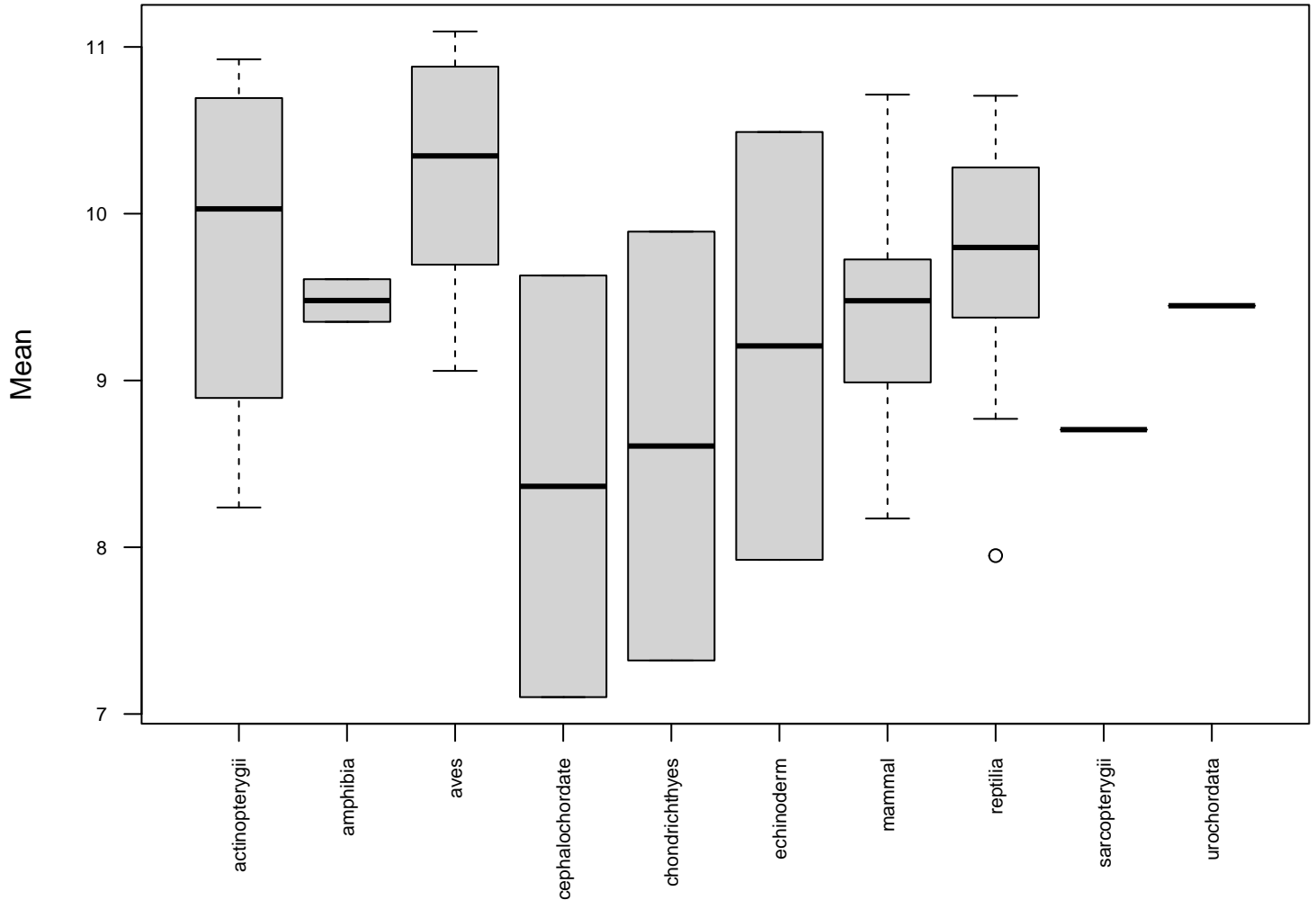
**Deuterostome Class Mean TpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 15.35 p= 0.08188**



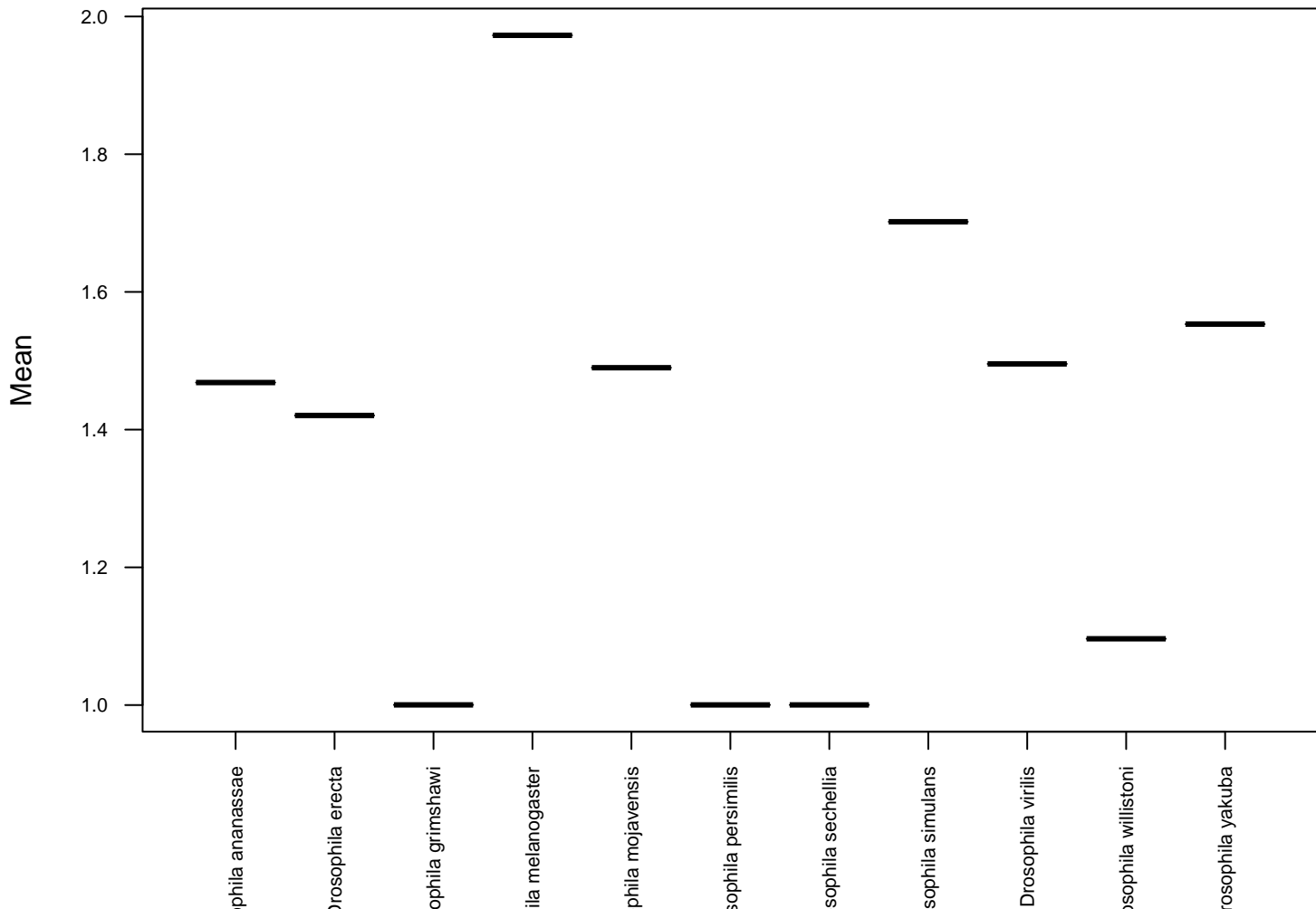
**Deuterostome Class Mean EpT**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 9.497 p= 0.3927**



**Deuterostome Class Mean EpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 11.02 p= 0.2744**

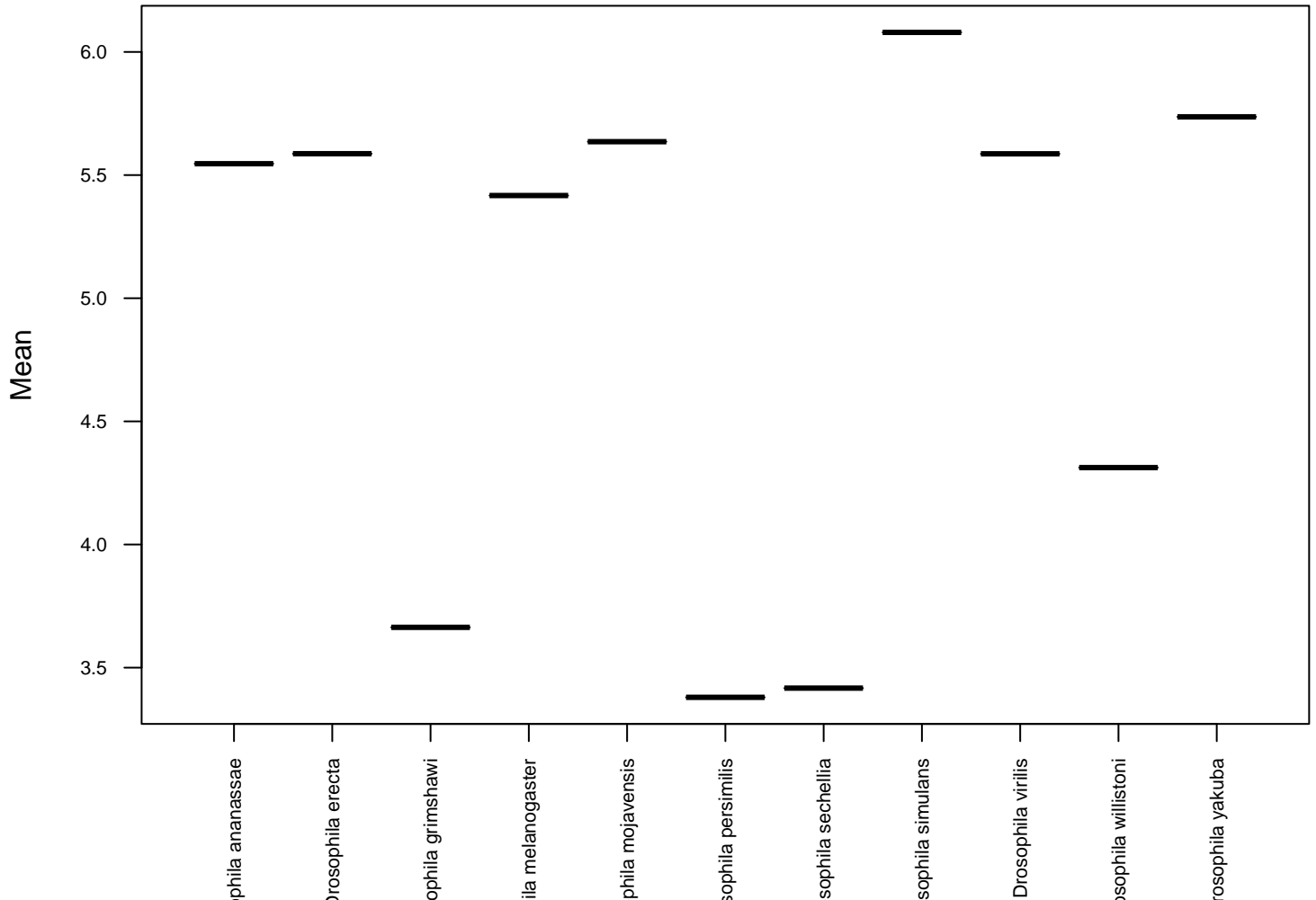


**Drosophila Class Mean TpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 14.26 p= 5.682e-08**

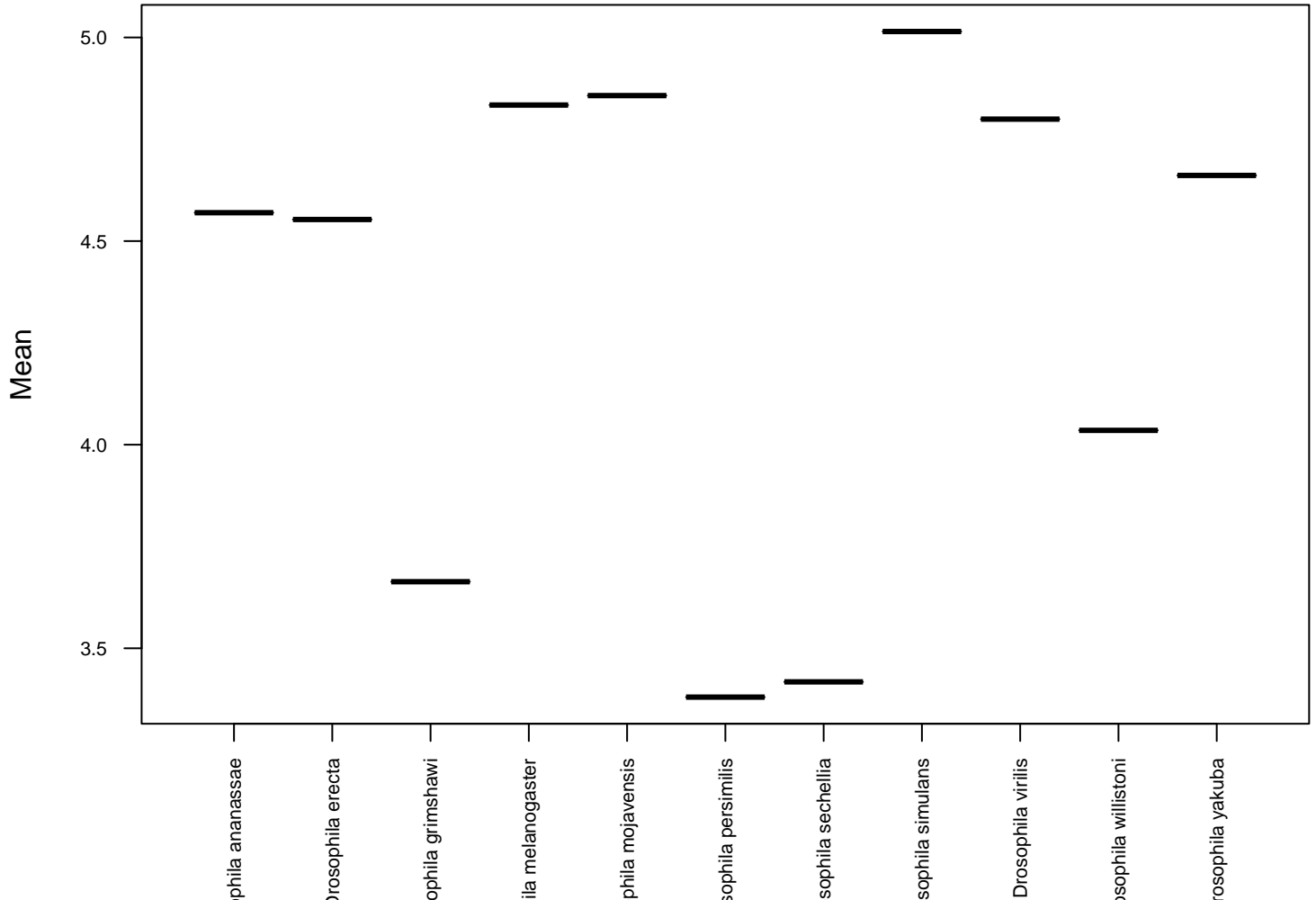




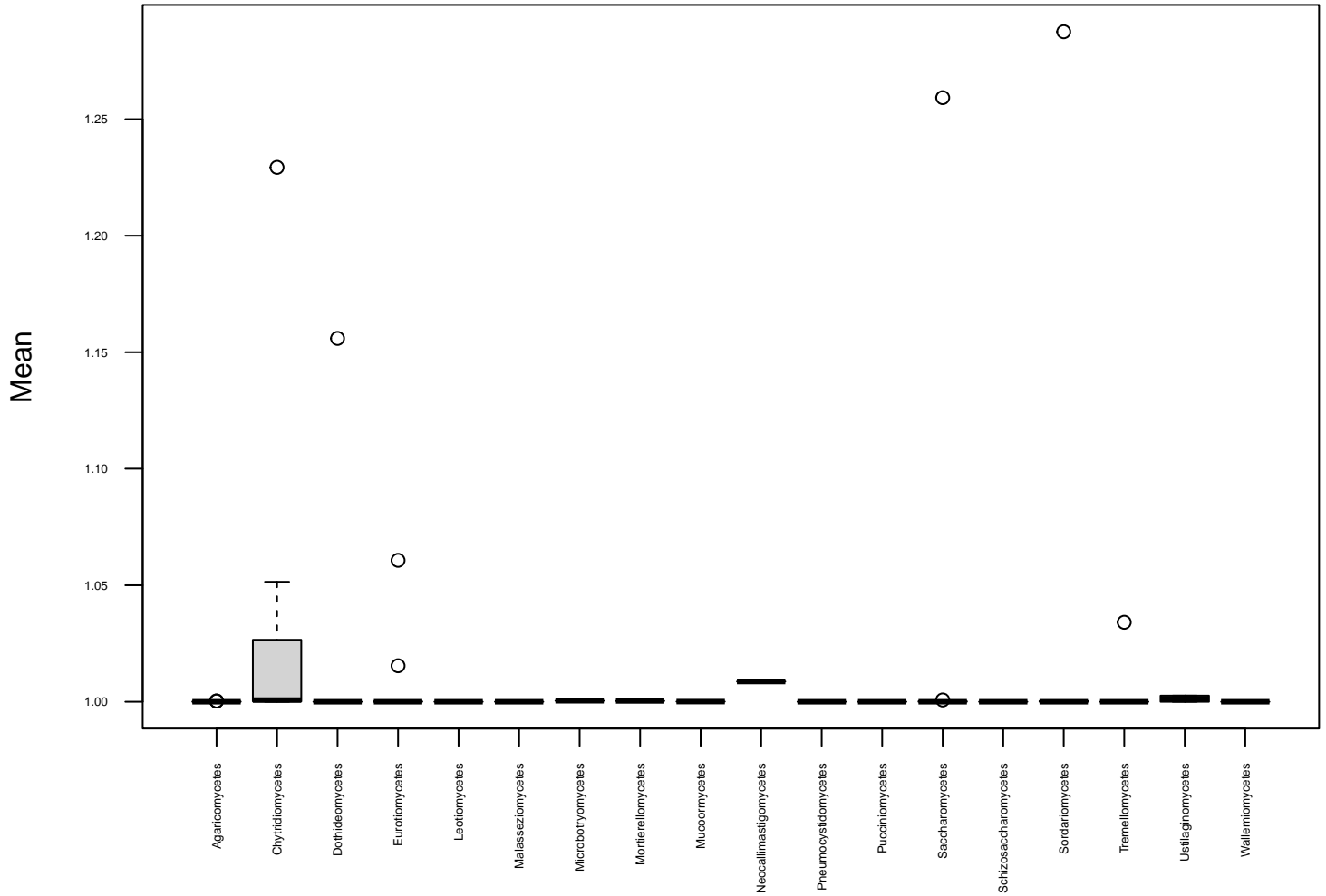
**Drosophila Class Mean EpT**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 66 p= 0.0009766**



**Drosophila Class Mean EpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 66 p= 0.0009766**

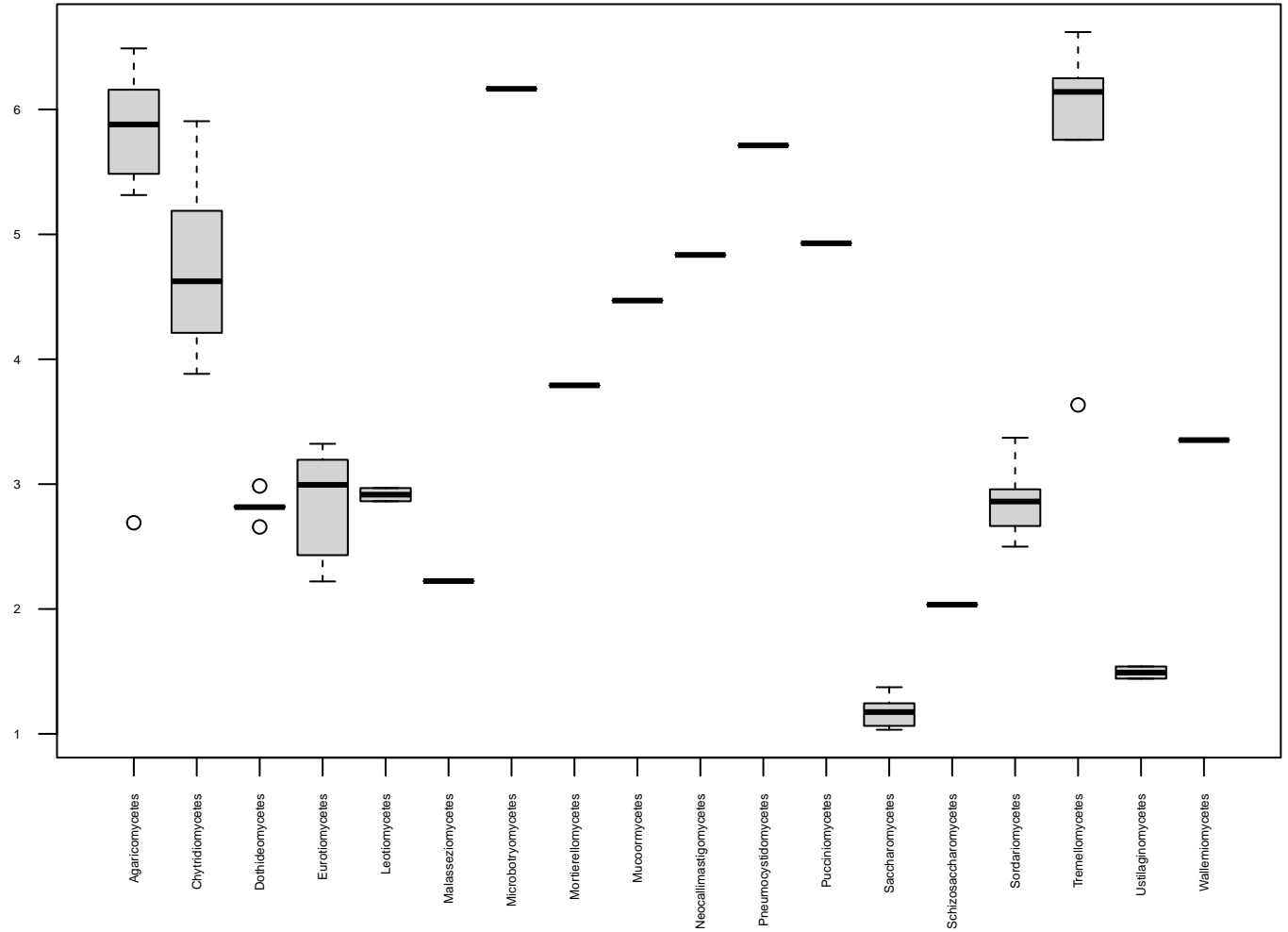


**Fungus Class Mean TpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 17.84 p= 0.3989**



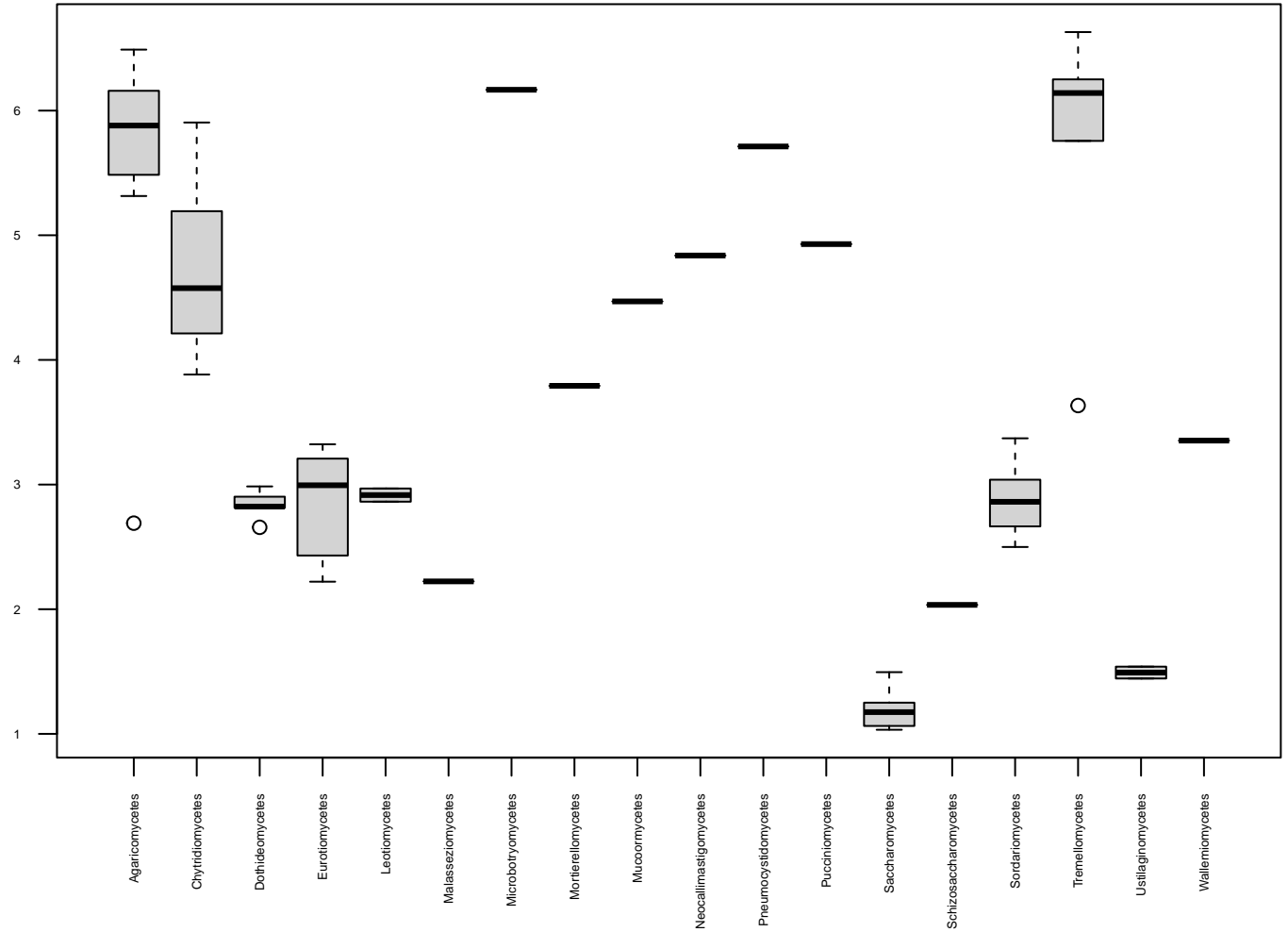
**Fungus Class Mean EpT**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 66.49 p= 8.578e-08**

Mean



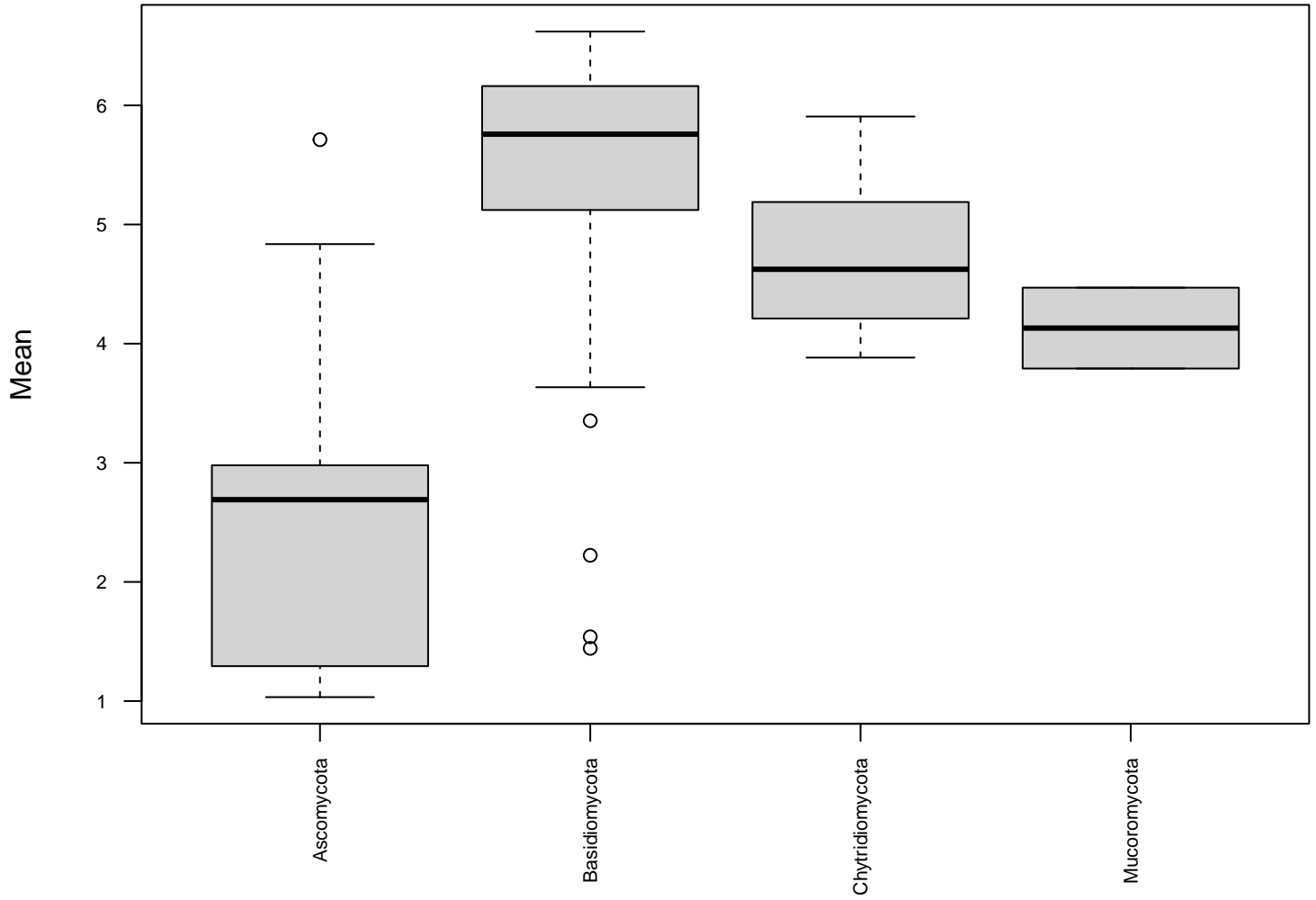
**Fungus Class Mean EpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 66.44 p= 8.763e-08**

Mean

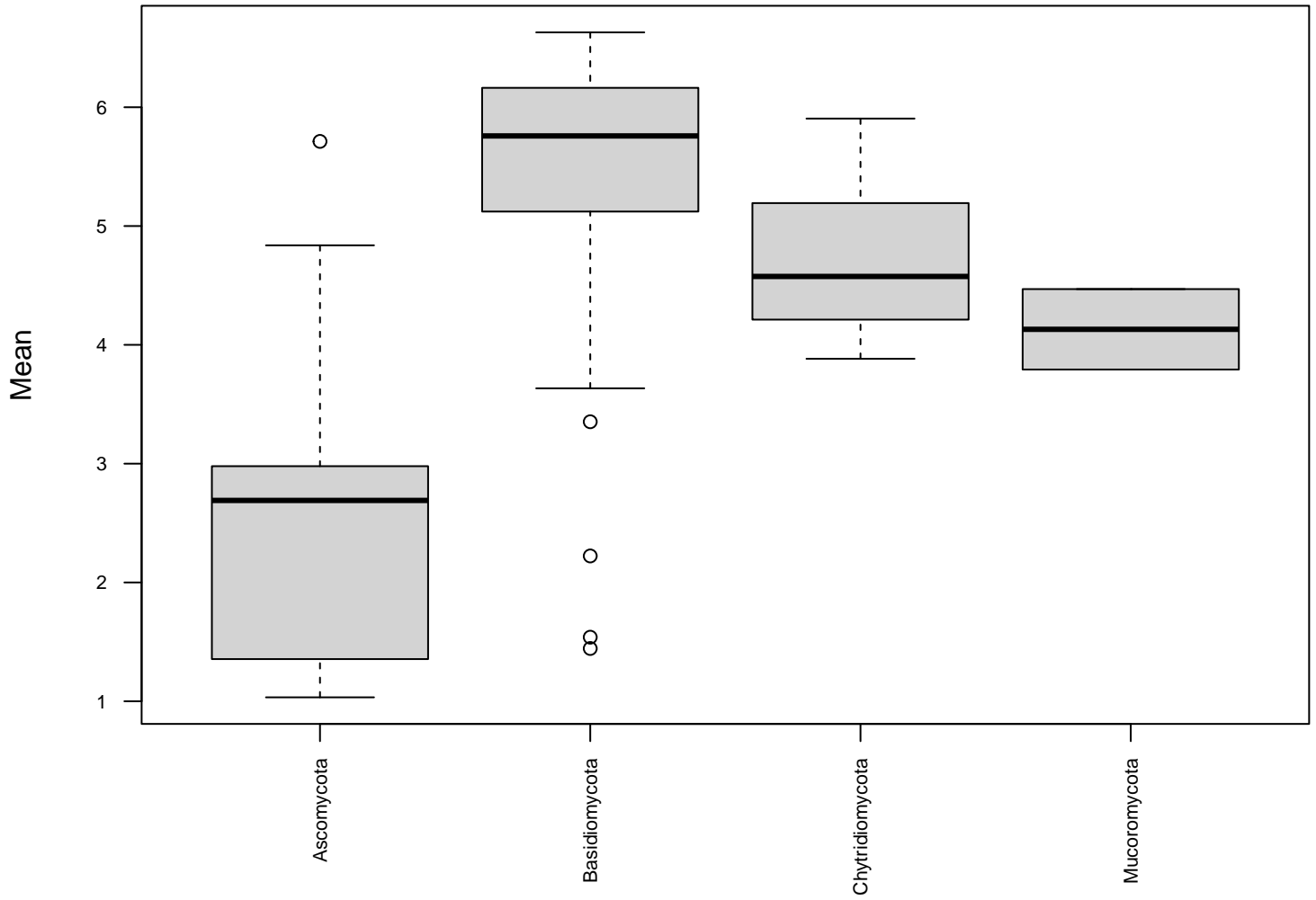




**Fungus Phylum Mean EpT**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 40.49 p= 8.389e-09**



**Fungus Phylum Mean EpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 40.47 p= 8.467e-09**

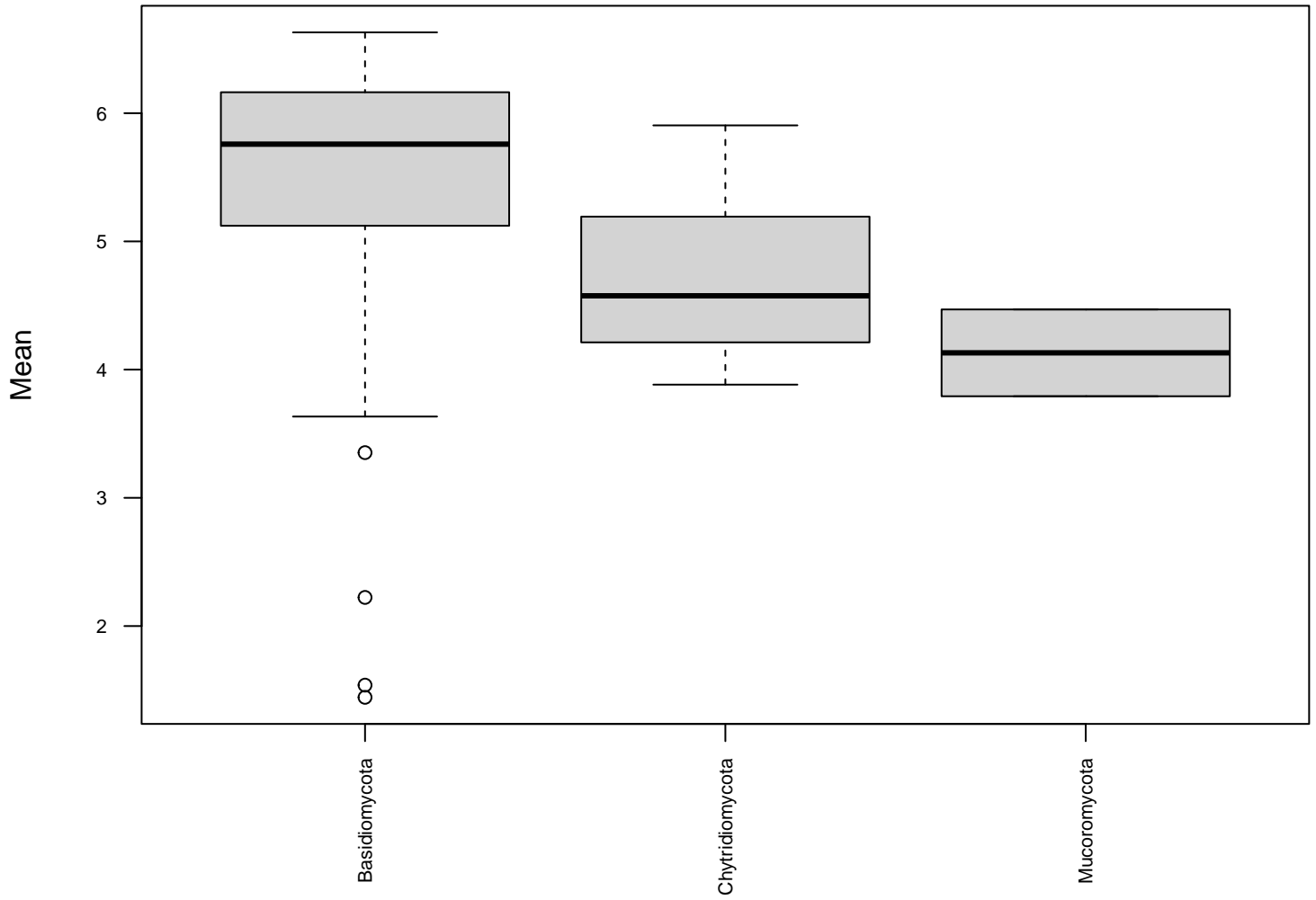




# Fungus Phylum sans Ascomycota Mean EpT

Kruskal-Wallis rank sum test

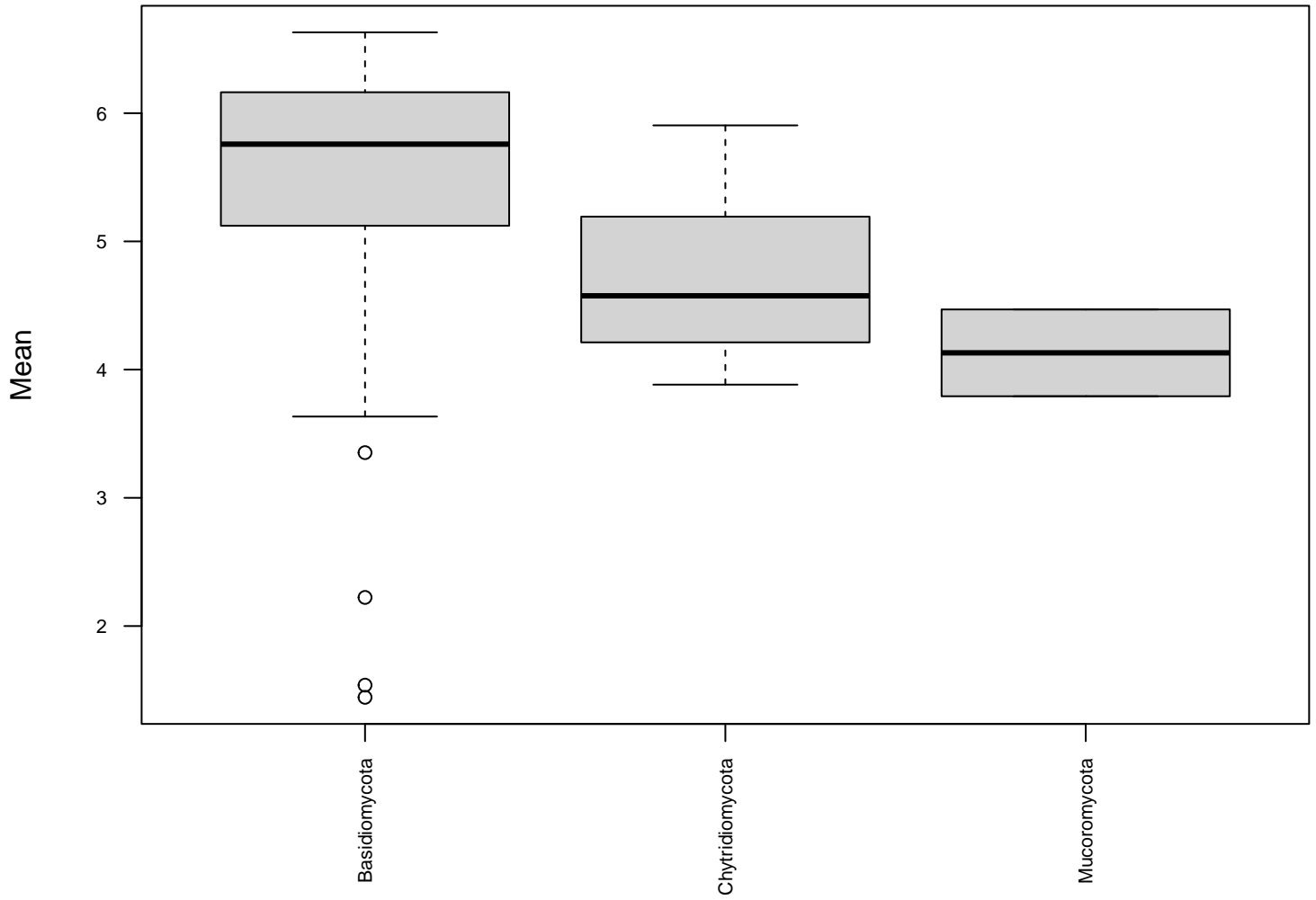
Chi-Sq = 5.151 p= 0.07612



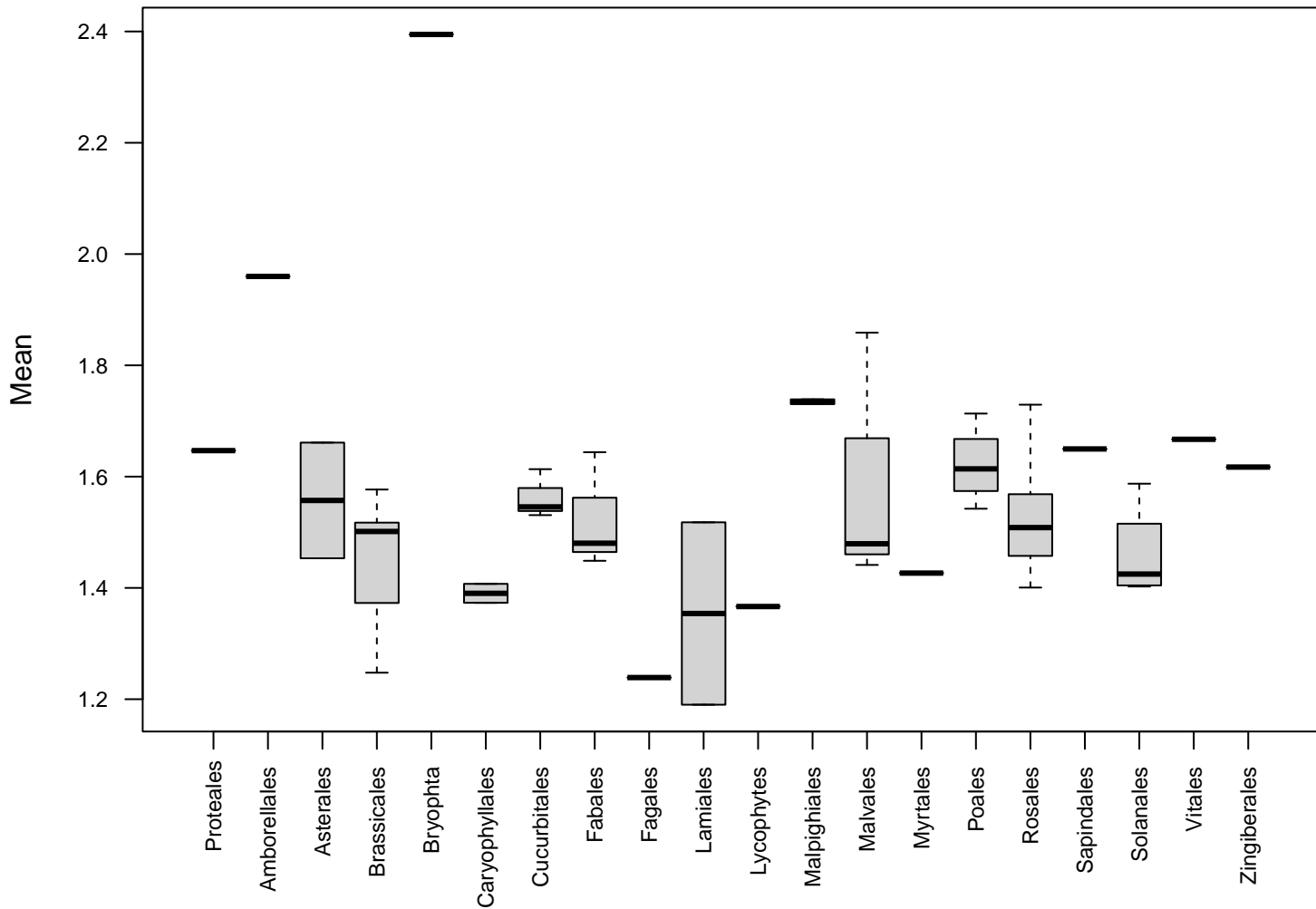
# Fungus Phylum sans Ascomycota Mean EpG

Kruskal-Wallis rank sum test

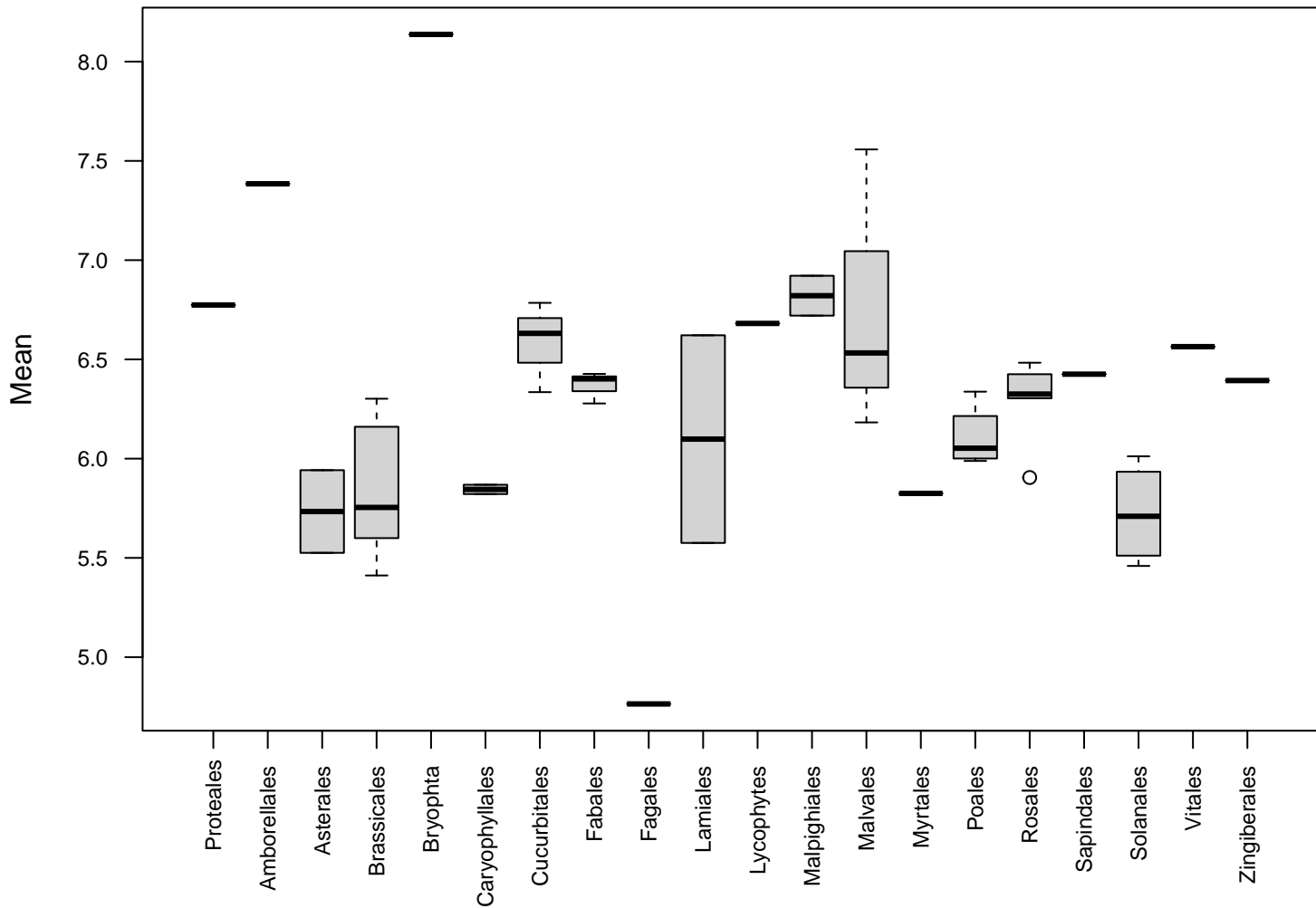
Chi-Sq = 5.151 p= 0.07612



**Plants Order Mean TpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 27.47 p= 0.09409**



**Plants Order Mean EpT**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 33.34 p= 0.02195**



**Plants Order Mean EpG**  
**Kruskal-Wallis rank sum test**  
**Chi-Sq = 33.65 p= 0.02021**

