

Supplementary material S2. Conservative dataset (N=118)

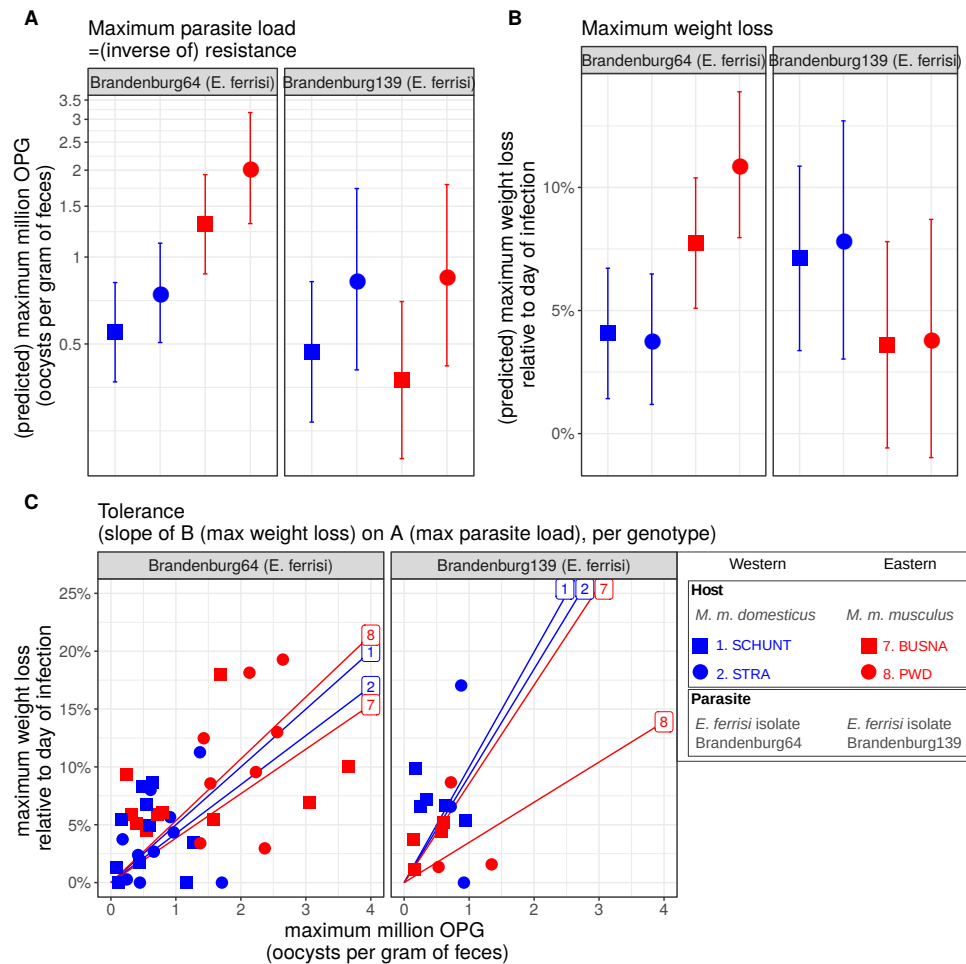


Figure S2.1. Comparison of resistance, impact on weight and tolerance between mouse strains for both *Eimeria ferrisi* isolates. (A) Maximum oocysts per gram of feces used as a proxy for (inverse of) resistance; (B) Impact on host health measured as the maximum weight loss during patent period relative to starting weight (%); (C) Tolerance estimated by the slope of the linear regression with null intercept modelling maximum relative weight loss as a response of maximum oocysts per gram of feces. A steep slope corresponds to a low tolerance. We did not detect (A) either higher parasite shedding of the Eastern parasite isolate in Eastern mouse strains and *vice versa* (LRT interaction factor mouse strain-parasite isolate: $G=6.9$, $df=3$, $P=0.74$) or (C) higher tolerance of Eastern hosts infected by Eastern parasite isolate and *vice versa* (LRT interaction factor mouse strain-parasite isolate: $G=3.1$, $df=3$, $p=0.38$), thus our results do not support the hypothesis of host adaptation between *E. ferrisi* and its host.