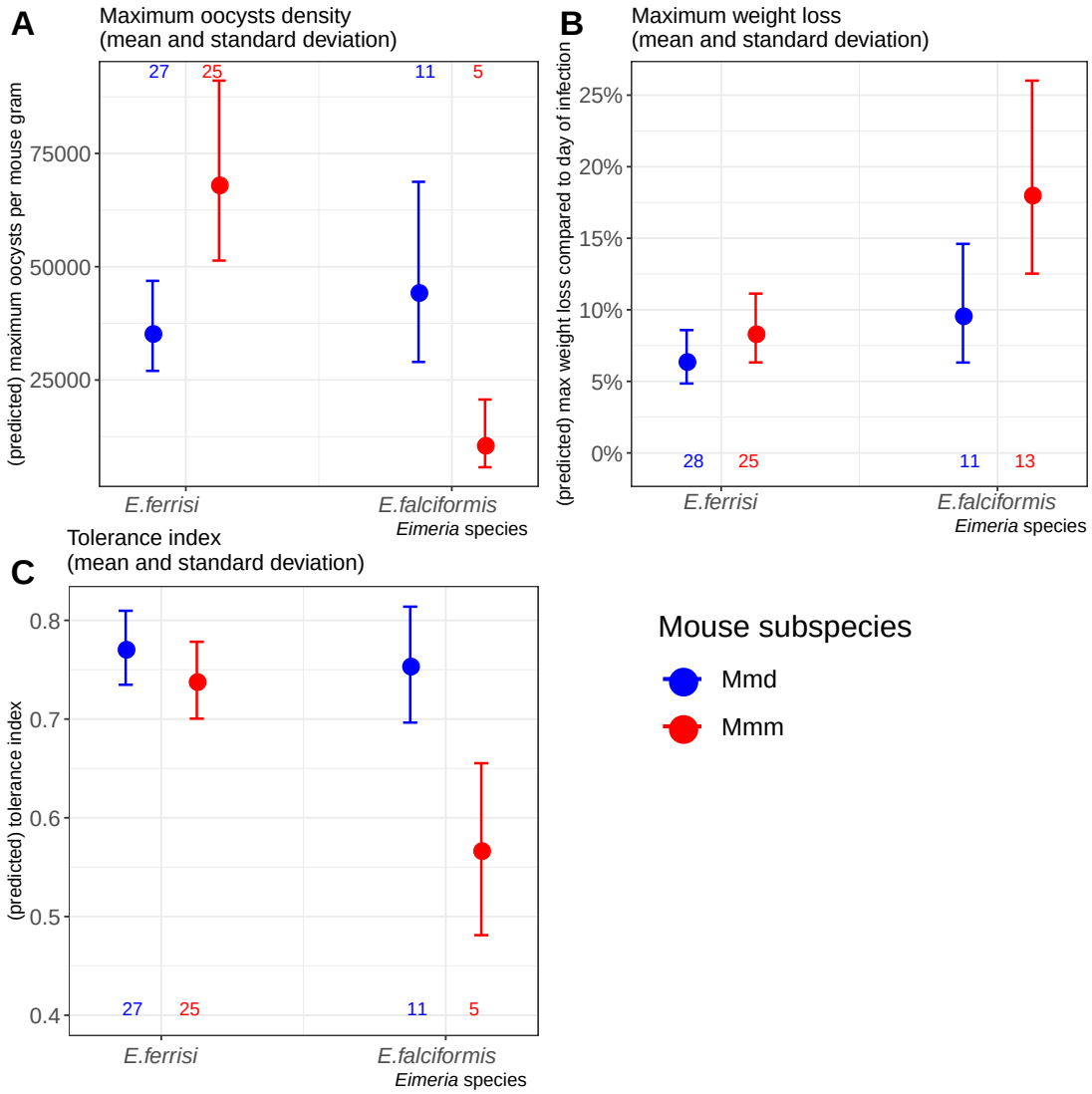
Supplementary Material S3. Main analyses on conservative dataset (N = 77)



Resistance, impact on host health and tolerance marginal effects for the two mice subspecies and two *Eimeria* species. Values under bars represent the number of animals for each group. See Table 2 for summary statistics. (A) Resistance index measured as *(-maximum number of oocysts per mouse gram + 300000) / 300000* ; (B) Impact on host health measured as the maximum weight loss during patent period relative to starting weight (%); (C) Tolerance Index measured as *(log10(maximum relative weight loss / maximum number of oocysts per mouse gram + 1e-8) / -8*

Post-hoc tests:

Maximum oocysts density:		**Mouse subspecies**			
		Mus musculus domesticus (Mmd)		*Mus musculus musculus* (Mmm)	
Mouse subspecies	***Eimeria* species**	*Eimeria ferrisi*	*Eimeria falciformis*	*Eimeria ferrisi*	*Eimeria falciformis*
Mus musculus domesticus (Mmd)	*Eimeria ferrisi*		Est:0.23 Std.Error:0.26	Est:0.65 Std.Error:0.2	Est:-1.18 Std.Error:0.36
	Eimeria falciformis	z value:0.87 Pr(>|z|):0.82		Est:0.43 Std.Error:0.26	Est:-1.41 Std.Error:0.39
Mus musculus musculus (Mmm)	*Eimeria ferrisi*	z value:3.22 Pr(>|z|):< 0.01	z value:1.61 Pr(>|z|):0.36		Est:-1.84 Std.Error:0.36
	Eimeria falciformis	z value:-3.32 Pr(>|z|):< 0.01	z value:-3.57 Pr(>|z|):< 0.01	z value:-5.13 Pr(>|z|):< 0.001	

Maximum weight loss:		**Mouse subspecies**			
		Mus musculus domesticus (Mmd)		*Mus musculus musculus* (Mmm)	
Mouse subspecies	***Eimeria* species**	*Eimeria ferrisi*	*Eimeria falciformis*	*Eimeria ferrisi*	*Eimeria falciformis*
Mus musculus domesticus (Mmd)	*Eimeria ferrisi*		Est:0.36 Std.Error:0.23	Est:0.23 Std.Error:0.18	Est:0.94 Std.Error:0.22
	Eimeria falciformis	z value:1.57 Pr(>|z|):0.39		Est:-0.13 Std.Error:0.23	Est:0.58 Std.Error:0.26
Mus musculus musculus (Mmm)	*Eimeria ferrisi*	z value:1.31 Pr(>|z|):0.55	z value:-0.54 Pr(>|z|):0.95		Est:0.71 Std.Error:0.22
	Eimeria falciformis	z value:4.34 Pr(>|z|):< 0.001	z value:2.23 Pr(>|z|):0.11	z value:3.24 Pr(>|z|):< 0.01	

Tolerance index:		**Mouse subspecies**			
		Mus musculus domesticus (Mmd)		*Mus musculus musculus* (Mmm)	
Mouse subspecies	***Eimeria* species**	*Eimeria ferrisi*	*Eimeria falciformis*	*Eimeria ferrisi*	*Eimeria falciformis*
Mus musculus domesticus (Mmd)	*Eimeria ferrisi*		Est:-0.02 Std.Error:0.04	Est:-0.03 Std.Error:0.03	Est:-0.2 Std.Error:0.05
	Eimeria falciformis	z value:-0.48 Pr(>|z|):0.96		Est:-0.02 Std.Error:0.04	Est:-0.19 Std.Error:0.05
Mus musculus musculus (Mmm)	*Eimeria ferrisi*	z value:-1.19 Pr(>|z|):0.62	z value:-0.44 Pr(>|z|):0.97		Est:-0.17 Std.Error:0.05
	Eimeria falciformis	z value:-4.22 Pr(>|z|):< 0.001	z value:-3.49 Pr(>|z|):< 0.01	z value:-3.52 Pr(>|z|):< 0.01	

Linear regression of the tolerance index with the resistance index:

We found that tolerance index was negatively correlated with resistance index (LRT: G = 16.6, df = 2, p < 0.001), was different for both *Eimeria* species (LRT: G = 15.3, df = 2, p < 0.001), and that interaction between these two factors were significant (LRT: G = 12.5, df = 1, p < 0.001). Every increase of 1 unit of resistance index corresponds to a decrease of 0.08 unit of tolerance index for *E. ferrisi* (95%CI: [-0.25 , 0.09]) and to a decrease of 1 unit of tolerance index for *E. falciformis* (95%CI: [-1.58 , -0.54]).