

## Post-hoc multiple comparison tests for maximum oocysts per gram of feces (Tukey Multiple Comparisons of Means) between each mouse strain and parasite isolate

Upper triangle: estimate contrasts and standard errors. Lower triangle: z-statistic and p-values

Yellow-highlighted cases represent comparisons within either the same host strain or the same parasite isolate. Within these comparisons, statistically significantly different maximum OPG values between 2 groups at the 5% threshold are highlighted in red.

### A. Full dataset (N=99)

Mouse strains		SCHUNT (Mmd)			STRA (Mmd)			BUSNA (Mmm)			PWD (Mmm)		
Mouse strains	Parasite isolates	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )
SCHUNT (Mmd)	Brandenburg139 ( <i>E. ferrisi</i> )		est:-0.11, Std.Error:0.32	est:0.8, Std.Error:0.38	est:0.24, Std.Error:0.38	est:0.55, Std.Error:0.32	est:1.43, Std.Error:0.37	est:-0.01, Std.Error:0.38	est:0.77, Std.Error:0.32	est:1.01, Std.Error:0.54	est:0.57, Std.Error:0.38	est:1.2, Std.Error:0.32	est:-0.21, Std.Error:0.42
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:-0.34, Pr(> z ):1		est:0.91, Std.Error:0.32	est:0.35, Std.Error:0.32	est:0.66, Std.Error:0.24	est:1.54, Std.Error:0.3	est:0.1, Std.Error:0.32	est:0.88, Std.Error:0.25	est:1.12, Std.Error:0.5	est:0.68, Std.Error:0.32	est:1.31, Std.Error:0.25	est:-0.1, Std.Error:0.37
	Brandenburg88 ( <i>E. falciformis</i> )	z value:2.11, Pr(> z ):0.59	z value:2.84, Pr(> z ):0.15		est:-0.56, Std.Error:0.38	est:-0.26, Std.Error:0.32	est:0.62, Std.Error:0.37	est:-0.81, Std.Error:0.38	est:-0.03, Std.Error:0.32	est:0.2, Std.Error:0.54	est:-0.24, Std.Error:0.38	est:0.4, Std.Error:0.32	est:-1.01, Std.Error:0.42
STRA (Mmd)	Brandenburg139 ( <i>E. ferrisi</i> )	z value:0.64, Pr(> z ):1	z value:1.1, Pr(> z ):0.99	z value:-1.47, Pr(> z ):0.94		est:0.3, Std.Error:0.32	est:1.18, Std.Error:0.37	est:-0.26, Std.Error:0.38	est:0.53, Std.Error:0.32	est:0.76, Std.Error:0.54	est:0.32, Std.Error:0.38	est:0.96, Std.Error:0.32	est:-0.45, Std.Error:0.42
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:1.72, Pr(> z ):0.85	z value:2.68, Pr(> z ):0.22	z value:-0.81, Pr(> z ):1	z value:0.95, Pr(> z ):1		est:0.88, Std.Error:0.3	est:-0.56, Std.Error:0.32	est:0.23, Std.Error:0.24	est:0.46, Std.Error:0.5	est:0.02, Std.Error:0.32	est:0.65, Std.Error:0.25	est:-0.75, Std.Error:0.37
	Brandenburg88 ( <i>E. falciformis</i> )	z value:3.9, Pr(> z ):< 0.001	z value:5.04, Pr(> z ):< 0.001	z value:1.7, Pr(> z ):0.86	z value:3.23, Pr(> z ):0.05	z value:2.92, Pr(> z ):0.12		est:-1.44, Std.Error:0.37	est:-0.65, Std.Error:0.3	est:-0.42, Std.Error:0.53	est:-0.86, Std.Error:0.37	est:-0.23, Std.Error:0.31	est:-1.63, Std.Error:0.41
BUSNA (Mmm)	Brandenburg139 ( <i>E. ferrisi</i> )	z value:-0.03, Pr(> z ):1	z value:-0.03, Pr(> z ):1	z value:-2.15, Pr(> z ):0.57	z value:-0.67, Pr(> z ):1	z value:-1.76, Pr(> z ):0.83	z value:-3.93, Pr(> z ):< 0.01		est:0.78, Std.Error:0.32	est:1.02, Std.Error:0.54		est:1.21, Std.Error:0.32	est:-0.19, Std.Error:0.42
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:2.41, Pr(> z ):0.38	z value:3.55, Pr(> z ):0.02	z value:-0.09, Pr(> z ):1	z value:1.65, Pr(> z ):0.88	z value:0.93, Pr(> z ):1	z value:-2.14, Pr(> z ):0.57	z value:2.45, Pr(> z ):0.36		est:0.23, Std.Error:0.5		est:0.43, Std.Error:0.25	est:-0.98, Std.Error:0.37
	Brandenburg88 ( <i>E. falciformis</i> )	z value:1.87, Pr(> z ):0.76	z value:2.24, Pr(> z ):0.5	z value:0.38, Pr(> z ):1	z value:1.42, Pr(> z ):0.96	z value:0.93, Pr(> z ):1	z value:-0.8, Pr(> z ):1	z value:1.9, Pr(> z ):0.75	z value:0.47, Pr(> z ):1		est:0.19, Std.Error:0.54	est:0.19, Std.Error:0.5	est:-1.21, Std.Error:0.57
PWD (Mmm)	Brandenburg139 ( <i>E. ferrisi</i> )	z value:1.49, Pr(> z ):0.94	z value:2.1, Pr(> z ):0.6	z value:-0.62, Pr(> z ):1	z value:0.85, Pr(> z ):1	z value:0.06, Pr(> z ):1	z value:-2.35, Pr(> z ):0.42	z value:1.52, Pr(> z ):0.93	z value:-0.65, Pr(> z ):1	z value:-0.82, Pr(> z ):1		est:0.63, Std.Error:0.32	est:-0.77, Std.Error:0.42
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:3.69, Pr(> z ):0.01	z value:5.17, Pr(> z ):< 0.001	z value:1.22, Pr(> z ):0.99	z value:2.94, Pr(> z ):0.12	z value:2.62, Pr(> z ):0.25	z value:-0.73, Pr(> z ):1	z value:3.73, Pr(> z ):< 0.01	z value:1.68, Pr(> z ):0.87	z value:0.39, Pr(> z ):1	z value:1.95, Pr(> z ):0.71		est:-1.41, Std.Error:0.38
	Brandenburg88 ( <i>E. falciformis</i> )	z value:-0.48, Pr(> z ):1	z value:-0.26, Pr(> z ):1	z value:-2.38, Pr(> z ):0.4	z value:-1.06, Pr(> z ):1	z value:-2.03, Pr(> z ):0.65	z value:-3.96, Pr(> z ):< 0.01	z value:-0.46, Pr(> z ):1	z value:-2.63, Pr(> z ):0.25	z value:-2.13, Pr(> z ):0.58	z value:-1.82, Pr(> z ):0.8	z value:-3.74, Pr(> z ):< 0.01	

### B. Conservative dataset (N=77)

Mouse strains		SCHUNT (Mmd)			STRA (Mmd)			BUSNA (Mmm)			PWD (Mmm)		
Mouse strains	Parasite isolates	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )	Brandenburg139 ( <i>E. ferrisi</i> )	Brandenburg64 ( <i>E. ferrisi</i> )	Brandenburg88 ( <i>E. ferrisi</i> )
SCHUNT (Mmd)	Brandenburg139 ( <i>E. ferrisi</i> )		est:0.09, Std.Error:0.37	est:0.52, Std.Error:0.44	est:0.51, Std.Error:0.48	est:0.4, Std.Error:0.37	est:1.44, Std.Error:0.39	est:-0.29, Std.Error:0.44	est:0.95, Std.Error:0.37	est:1.02, Std.Error:0.54	est:0.54, Std.Error:0.48	est:1.4, Std.Error:0.38	est:0.02, Std.Error:0.48
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:0.24, Pr(> z ):1		est:0.43, Std.Error:0.37	est:0.42, Std.Error:0.41	est:0.31, Std.Error:0.28	est:1.35, Std.Error:0.31	est:-0.38, Std.Error:0.37	est:0.86, Std.Error:0.28	est:0.93, Std.Error:0.48	est:0.46, Std.Error:0.41	est:1.31, Std.Error:0.3	est:-0.07, Std.Error:0.41
	Brandenburg88 ( <i>E. falciformis</i> )	z value:1.17, Pr(> z ):0.99	z value:1.15, Pr(> z ):0.99		est:0, Std.Error:0.48	est:-0.11, Std.Error:0.37	est:0.92, Std.Error:0.39	est:-0.81, Std.Error:0.44	est:0.43, Std.Error:0.37	est:0.5, Std.Error:0.54	est:0.03, Std.Error:0.48	est:0.88, Std.Error:0.38	est:-0.49, Std.Error:0.48
STRA (Mmd)	Brandenburg139 ( <i>E. ferrisi</i> )	z value:1.07, Pr(> z ):1	z value:1.03, Pr(> z ):1	z value:-0.01, Pr(> z ):1		est:-0.11, Std.Error:0.41	est:0.93, Std.Error:0.43	est:-0.8, Std.Error:0.48	est:0.44, Std.Error:0.41	est:0.51, Std.Error:0.57	est:0.03, Std.Error:0.51	est:0.89, Std.Error:0.42	est:-0.49, Std.Error:0.51
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:1.09, Pr(> z ):0.99	z value:1.12, Pr(> z ):0.99	z value:-0.3, Pr(> z ):1	z value:-0.26, Pr(> z ):1		est:1.04, Std.Error:0.31	est:-0.7, Std.Error:0.37	est:0.55, Std.Error:0.28	est:0.62, Std.Error:0.48	est:0.14, Std.Error:0.41	est:1, Std.Error:0.3	est:-0.38, Std.Error:0.41
	Brandenburg88 ( <i>E. falciformis</i> )	z value:3.67, Pr(> z ):0.01	z value:4.38, Pr(> z ):< 0.001	z value:2.35, Pr(> z ):0.42	z value:2.15, Pr(> z ):0.57	z value:3.36, Pr(> z ):0.03		est:-1.73, Std.Error:0.39	est:-0.49, Std.Error:0.31	est:-0.42, Std.Error:0.5	est:-0.9, Std.Error:0.43	est:-0.04, Std.Error:0.32	est:-1.42, Std.Error:0.43
BUSNA (Mmm)	Brandenburg139 ( <i>E. ferrisi</i> )	z value:-0.66, Pr(> z ):1	z value:-1.03, Pr(> z ):1	z value:-1.83, Pr(> z ):0.79	z value:-1.68, Pr(> z ):0.87	z value:-1.88, Pr(> z ):0.76	z value:-4.41, Pr(> z ):< 0.001		est:1.24, Std.Error:0.37	est:1.31, Std.Error:0.54	est:0.84, Std.Error:0.48	est:1.69, Std.Error:0.38	est:0.32, Std.Error:0.48
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:2.57, Pr(> z ):0.28	z value:3.08, Pr(> z ):0.08	z value:1.17, Pr(> z ):0.99	z value:1.06, Pr(> z ):1	z value:1.96, Pr(> z ):0.71	z value:-1.58, Pr(> z ):0.91	z value:3.36, Pr(> z ):0.03		est:0.07, Std.Error:0.48	est:-0.41, Std.Error:0.41	est:0.45, Std.Error:0.3	est:-0.93, Std.Error:0.41
	Brandenburg88 ( <i>E. falciformis</i> )	z value:1.88, Pr(> z ):0.76	z value:1.92, Pr(> z ):0.73	z value:0.93, Pr(> z ):1	z value:0.89, Pr(> z ):1	z value:1.27, Pr(> z ):0.98	z value:-0.84, Pr(> z ):1	z value:2.42, Pr(> z ):0.37	z value:0.14, Pr(> z ):1		est:-0.48, Std.Error:0.57	est:0.38, Std.Error:0.49	est:-1, Std.Error:0.57
PWD (Mmm)	Brandenburg139 ( <i>E. ferrisi</i> )	z value:1.14, Pr(> z ):0.99	z value:1.1, Pr(> z ):0.99	z value:0.06, Pr(> z ):1	z value:0.06, Pr(> z ):1	z value:0.34, Pr(> z ):1	z value:-2.07, Pr(> z ):0.62	z value:1.75, Pr(> z ):0.83	z value:-0.99, Pr(> z ):1	z value:-0.83, Pr(> z ):1		est:0.85, Std.Error:0.42	est:-0.52, Std.Error:0.51
	Brandenburg64 ( <i>E. ferrisi</i> )	z value:3.65, Pr(> z ):0.01	z value:4.41, Pr(> z ):< 0.001	z value:2.3, Pr(> z ):0.46	z value:2.09, Pr(> z ):0.61	z value:3.35, Pr(> z ):0.03	z value:-0.13, Pr(> z ):1	z value:4.41, Pr(> z ):< 0.001	z value:1.51, Pr(> z ):0.93	z value:0.77, Pr(> z ):1	z value:2.02, Pr(> z ):0.67		est:-1.37, Std.Error:0.42
	Brandenburg88 ( <i>E. falciformis</i> )	z value:0.05, Pr(> z ):1	z value:-0.16, Pr(> z ):1	z value:-1.03, Pr(> z ):1	z value:-0.96, Pr(> z ):1	z value:-0.92, Pr(> z ):1	z value:-3.28, Pr(> z ):0.04	z value:0.66, Pr(> z ):1	z value:-2.25, Pr(> z ):0.49	z value:-1.74, Pr(> z ):0.84	z value:-1.02, Pr(> z ):1	z value:-3.24, Pr(> z ):0.05	