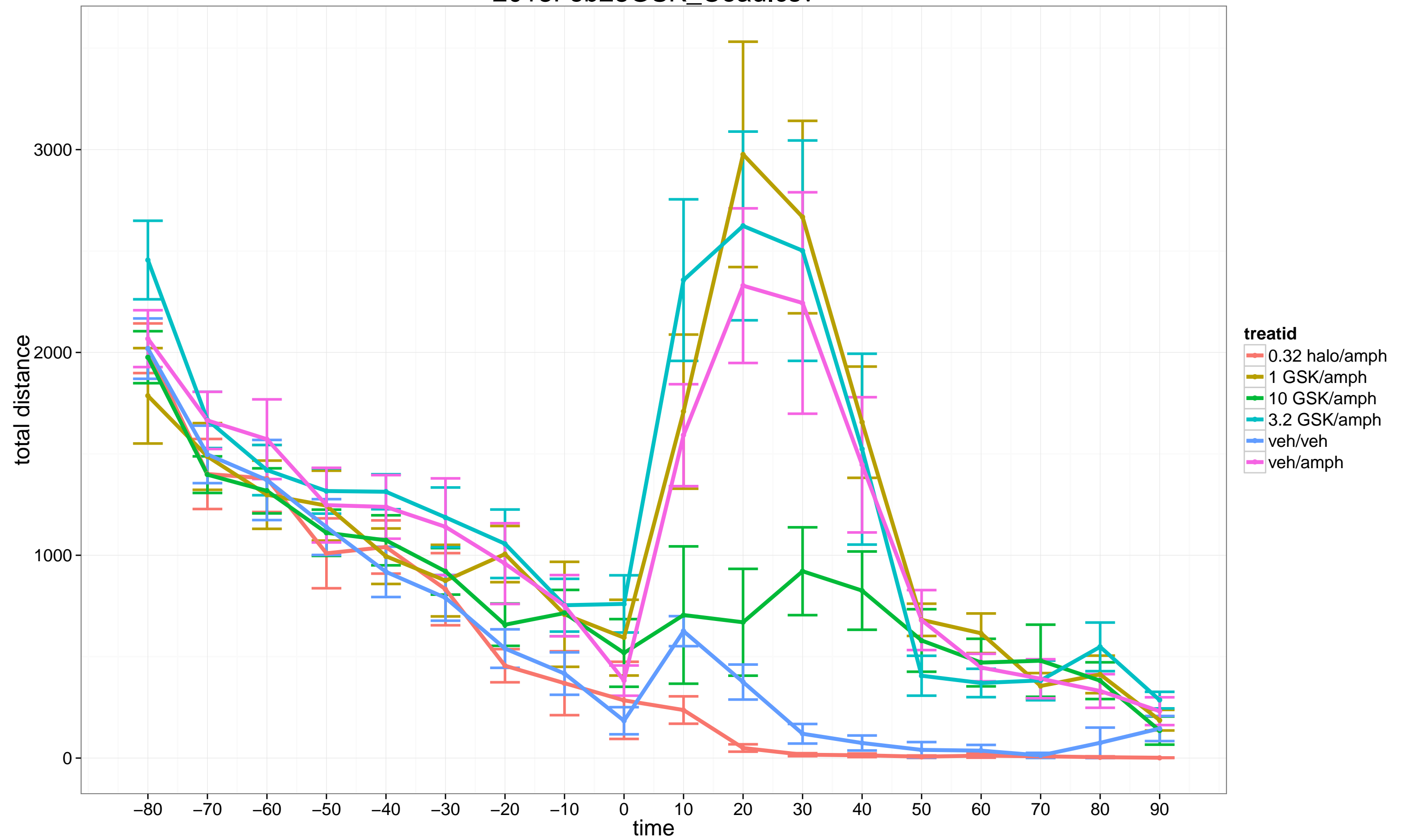
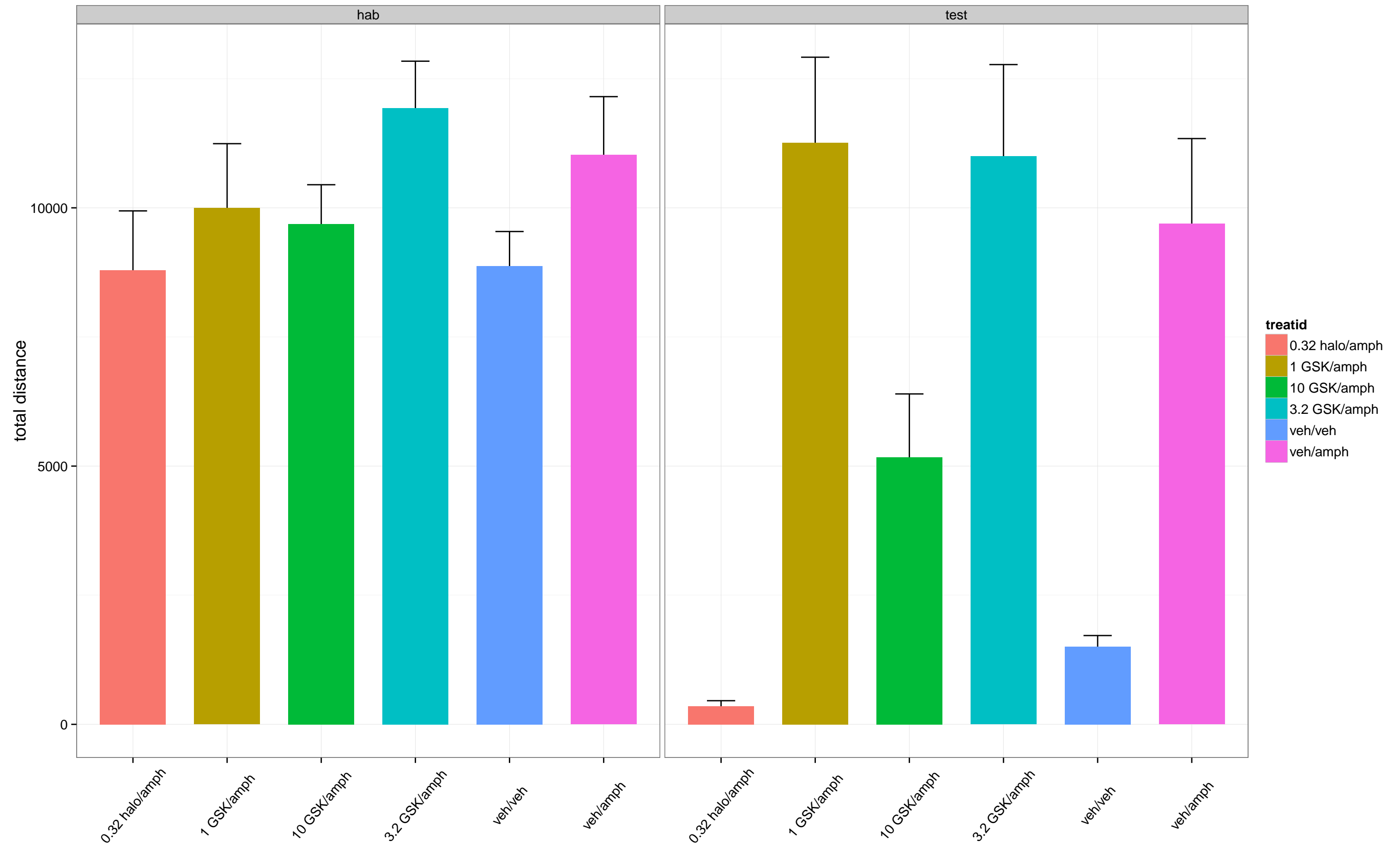
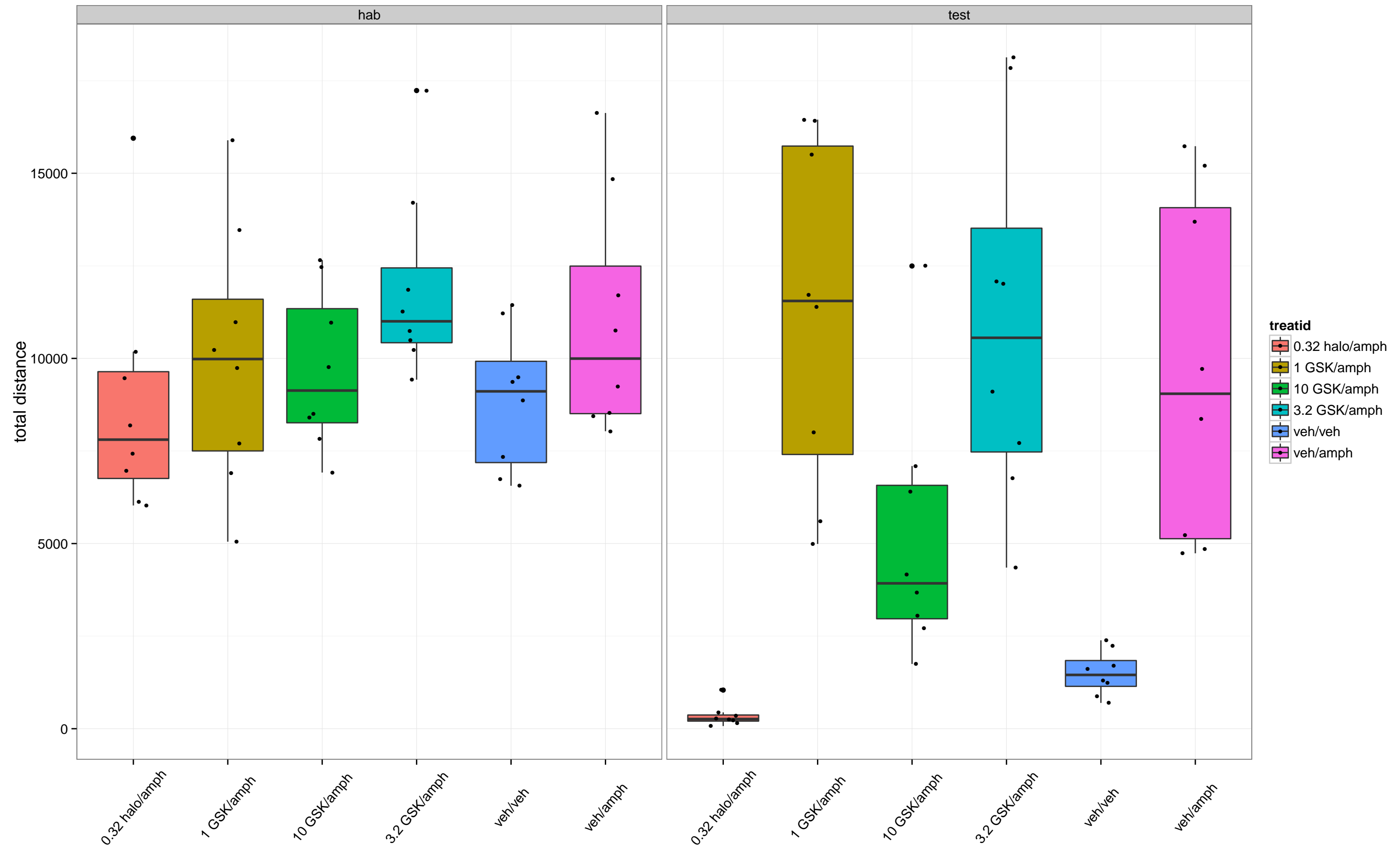


2013Feb28GSK_Coad.csv







Shapiro–Wilk test of normality

		treatment	p.value
1	0.32	halo/amph	0.01400376
2	1	GSK/amph	0.22688671
3	10	GSK/amph	0.11269887
4	3.2	GSK/amph	0.46541689
5		veh/veh	0.73238509
6		veh/amph	0.13415601

Bartlett test of homogeneity of variances

Bartlett test of homogeneity of variances

data: value by treatid
Bartlett's K-squared = 47.4992, df = 5, p-value = 4.494e-09

One-way analysis of means (not assuming equal variances)

One-way analysis of means (not assuming equal variances)

data: value and treatid

F = 24.6841, num df = 5.000, denom df = 17.535, p-value = 2.311e-07

least-squares means. differences from control

	estimate	SE	df	t.ratio	p.value
0.32 halo/amph - veh/amph	-9340.500	1842.162	42	-5.07040	0.00004
1 GSK/amph - veh/amph	1569.000	1842.162	42	0.85172	0.48173
10 GSK/amph - veh/amph	-4521.250	1842.162	42	-2.45432	0.03057
3.2 GSK/amph - veh/amph	1307.625	1842.162	42	0.70983	0.48173
veh/veh - veh/amph	-8185.000	1842.162	42	-4.44315	0.00016
p values are adjusted using the BH method for 5 tests					

two-way anova on GLS model with correlations and unequal variances

Denom. DF: 378			
	numDF	F-value	p-value
(Intercept)	1	88.73061	<.0001
factor(treatid)	5	4.73356	3e-04
factor(time)	8	20.06338	<.0001
factor(treatid):factor(time)	40	3.70745	<.0001

least-squares means. differences from control at fixed times

	estimate	SE	df	t.ratio	p.value
0.32 halo/amph - 6 10	-1355.125	352.8893	378	-3.84009	0.00065
1 GSK/amph - 6 10	116.125	352.8893	378	0.32907	0.85648
10 GSK/amph - 6 10	-886.750	352.8893	378	-2.51283	0.03718
3.2 GSK/amph - 6 10	764.625	352.8893	378	2.16676	0.07313
veh/veh - 6 10	-966.250	352.8893	378	-2.73811	0.02080
0.32 halo/amph - 6 20	-2279.500	405.7786	378	-5.61760	0.00000
1 GSK/amph - 6 20	647.250	405.7786	378	1.59508	0.21821
10 GSK/amph - 6 20	-1659.625	405.7786	378	-4.08998	0.00026
3.2 GSK/amph - 6 20	294.500	405.7786	378	0.72577	0.70264
veh/veh - 6 20	-1954.375	405.7786	378	-4.81636	0.00002
0.32 halo/amph - 6 30	-2227.000	421.5070	378	-5.28342	0.00000
1 GSK/amph - 6 30	423.625	421.5070	378	1.00502	0.52588
10 GSK/amph - 6 30	-1322.500	421.5070	378	-3.13755	0.00636
3.2 GSK/amph - 6 30	258.000	421.5070	378	0.61209	0.71695
veh/veh - 6 30	-2123.875	421.5070	378	-5.03877	0.00001
0.32 halo/amph - 6 40	-1432.250	329.9424	378	-4.34091	0.00014
1 GSK/amph - 6 40	210.125	329.9424	378	0.63685	0.71695
10 GSK/amph - 6 40	-620.250	329.9424	378	-1.87987	0.13678
3.2 GSK/amph - 6 40	77.250	329.9424	378	0.23413	0.88353
veh/veh - 6 40	-1371.500	329.9424	378	-4.15679	0.00022
0.32 halo/amph - 6 50	-673.500	152.3255	378	-4.42145	0.00012
1 GSK/amph - 6 50	1.250	152.3255	378	0.00821	0.99345
10 GSK/amph - 6 50	-100.500	152.3255	378	-0.65977	0.71695
3.2 GSK/amph - 6 50	-274.375	152.3255	378	-1.80124	0.14822
veh/veh - 6 50	-640.000	152.3255	378	-4.20153	0.00021
0.32 halo/amph - 6 60	-434.375	124.6323	378	-3.48525	0.00225
1 GSK/amph - 6 60	168.875	124.6323	378	1.35499	0.31721
10 GSK/amph - 6 60	24.500	124.6323	378	0.19658	0.88353
3.2 GSK/amph - 6 60	-76.125	124.6323	378	-0.61080	0.71695
veh/veh - 6 60	-409.750	124.6323	378	-3.28767	0.00414
0.32 halo/amph - 6 70	-382.625	169.7410	378	-2.25417	0.06623
1 GSK/amph - 6 70	-35.625	169.7410	378	-0.20988	0.88353
10 GSK/amph - 6 70	88.750	169.7410	378	0.52286	0.75172
3.2 GSK/amph - 6 70	-8.375	169.7410	378	-0.04934	0.98251
veh/veh - 6 70	-378.125	169.7410	378	-2.22766	0.06623
0.32 halo/amph - 6 80	-326.625	175.7177	378	-1.85881	0.13678
1 GSK/amph - 6 80	81.625	175.7177	378	0.46452	0.78147
10 GSK/amph - 6 80	50.750	175.7177	378	0.28882	0.86949
3.2 GSK/amph - 6 80	217.500	175.7177	378	1.23778	0.37483
veh/veh - 6 80	-255.625	175.7177	378	-1.45475	0.27482
0.32 halo/amph - 6 90	-229.500	102.9526	378	-2.22918	0.06623
1 GSK/amph - 6 90	-44.250	102.9526	378	-0.42981	0.79055
10 GSK/amph - 6 90	-95.625	102.9526	378	-0.92883	0.56824
3.2 GSK/amph - 6 90	54.625	102.9526	378	0.53058	0.75172
veh/veh - 6 90	-85.500	102.9526	378	-0.83048	0.63123

p values are adjusted using the BH method for 45 tests