##2017-07-26
##regression of distance to closest trimer effect on fixation (sorted)
##distance_to_trimer_regression.R

Call:
glm(formula = distance_to_trimers_all_2$`fixedlpoly` ~
log(distance_to_trimers_all_2$distance),
    family = binomial())

Deviance Residuals:
    Min   1Q   Median   3Q   Max
-0.7986 -0.6961 -0.6764 -0.6533   1.8253

Coefficients:

	Estimate	Std. Error	z value	Pr(>lzl)
(Intercept)	-1.533719	0.022906	-66.96	<2e-16 ***
log(distance_to_trimers_all_2$distance)	0.070473	0.007273	9.69	<2e-16 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 119890 on 116606 degrees of freedom
Residual deviance: 119796 on 116605 degrees of freedom
AIC: 119800

Number of Fisher Scoring iterations: 4

###
Spearman's rank correlation rho

data: distance_to_trimers_all_2$`fixedlpoly` and distance_to_trimers_all_2$distance
S = 2.5721e+14, p-value < 2.2e-16
alternative hypothesis: true rho is not equal to 0
sample estimates:
      rho
0.02667097