

Table S2

P-values of the overall effect of treatment (caffeine, estradiol and combination) compared to control for *Aurelia aurita* polyp response variables (ruffling, elongation, budding and total number). P-values of the interaction of time on the effect of treatment on each response variable are also listed. Ruffling in the caffeine and combination treatments are also compared against each other. Values are determined by the corresponding GAMLSS models and significant p-values (<0.05) are in bold.

	<i>Response Variable</i>			
	<i>Ruffling</i>	<i>Elongation</i>	<i>Budding</i>	<i>Total</i>
<i>Collection Day (time)</i>	2.84e-11	6.74e-05	4.48e-07	0.0111
<i>Caffeine</i>	0.0278	0.647	0.153	0.983
<i>Estradiol</i>	0.647	0.935	0.760	0.991
<i>Combination</i>	0.0298	0.757	0.00201	0.911
<i>Caffeine Through Time</i>	0.330	0.234	0.540	0.698
<i>Estradiol Through Time</i>	0.900	0.266	0.651	0.961
<i>Combination Through Time</i>	0.435	0.128	0.0392	0.514
<i>Caffeine vs. Combination</i>	0.8767	-	0.0405	-