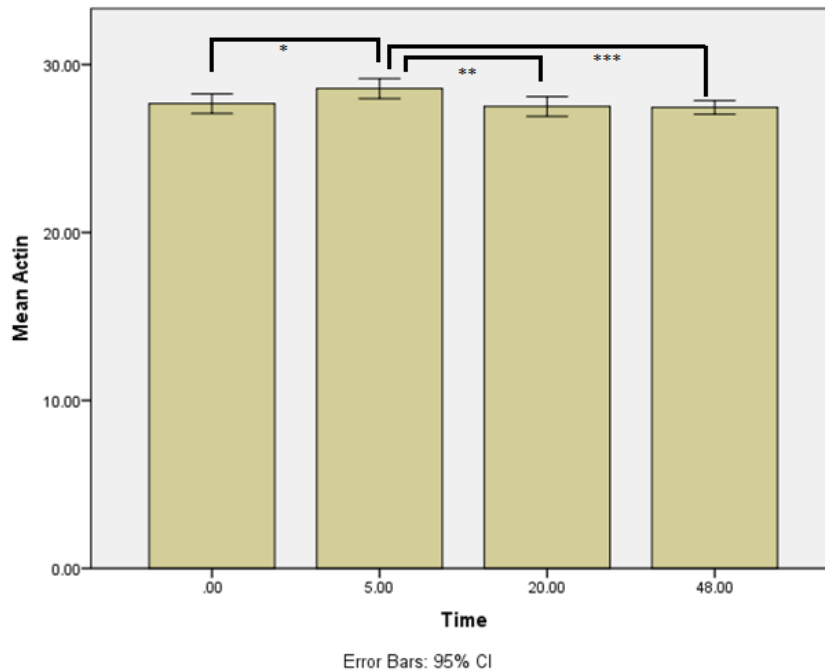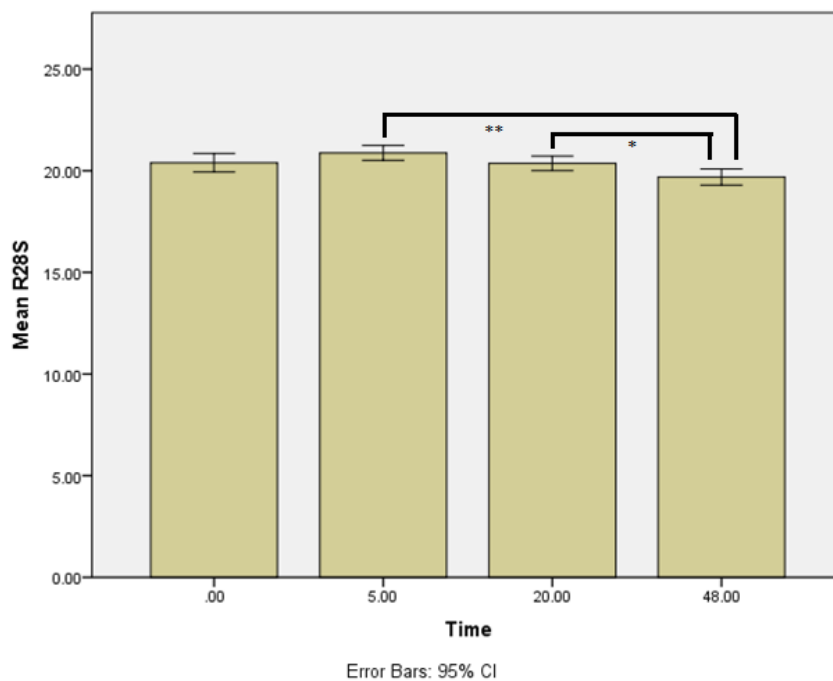S3: Post-hoc tests results for time effects in the main experiment. Shown are average cT values (representing an <u>inverse</u> measure of gene expression) at the different time points without accounting for other factors. (* = p < 0.05, ** = p < 0.01, *** = p < 0.001)
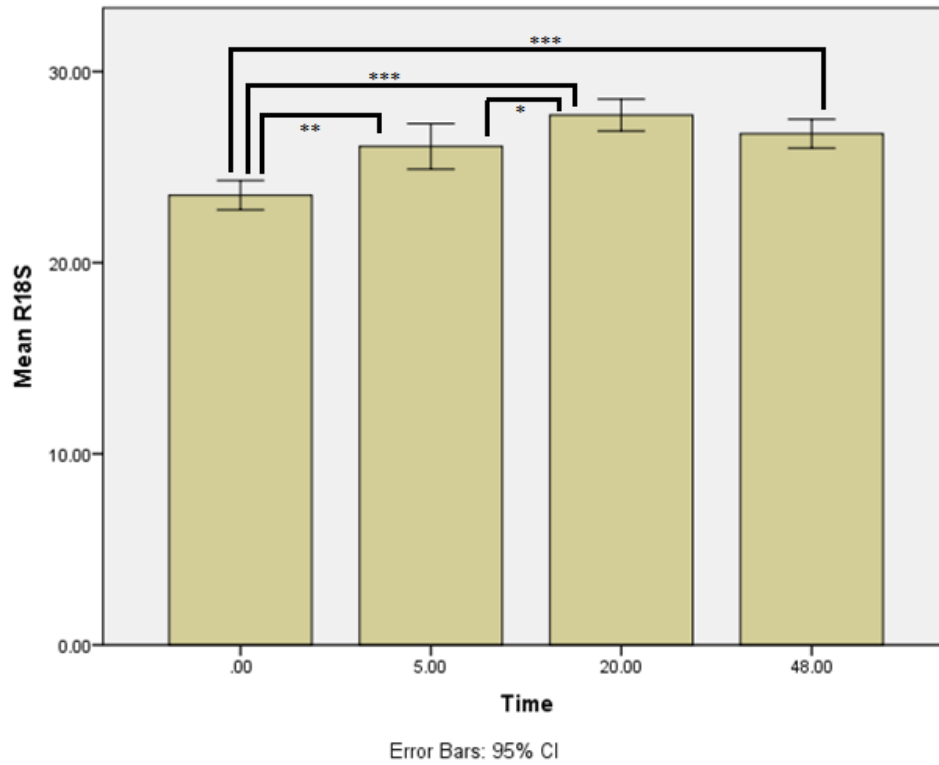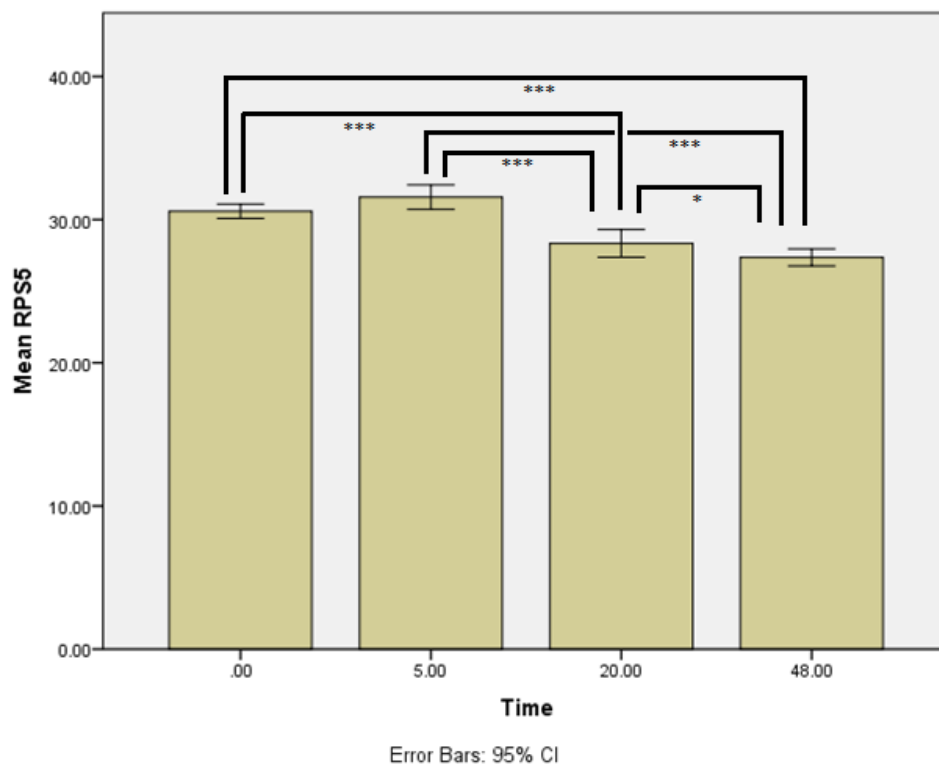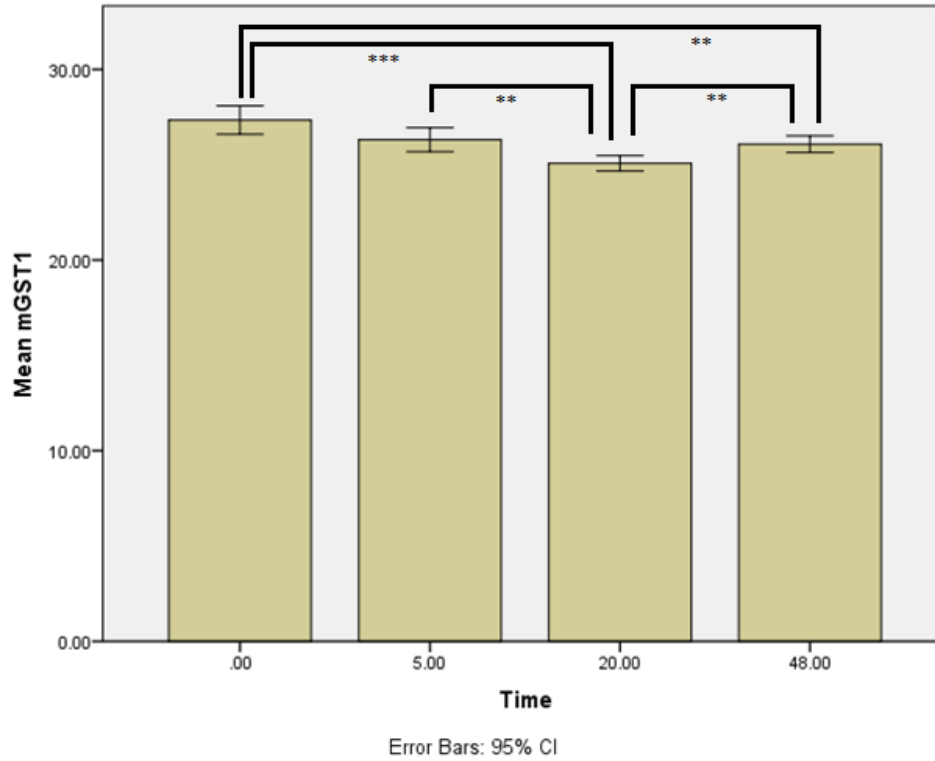
Actin:

Error Bars: 95% CI

28S rRNA:

Error Bars: 95% CI

18S rRNA:

Error Bars: 95% CI

RPS5:

Error Bars: 95% CI

mGST1:

Error Bars: 95% CI

Histone H2A:

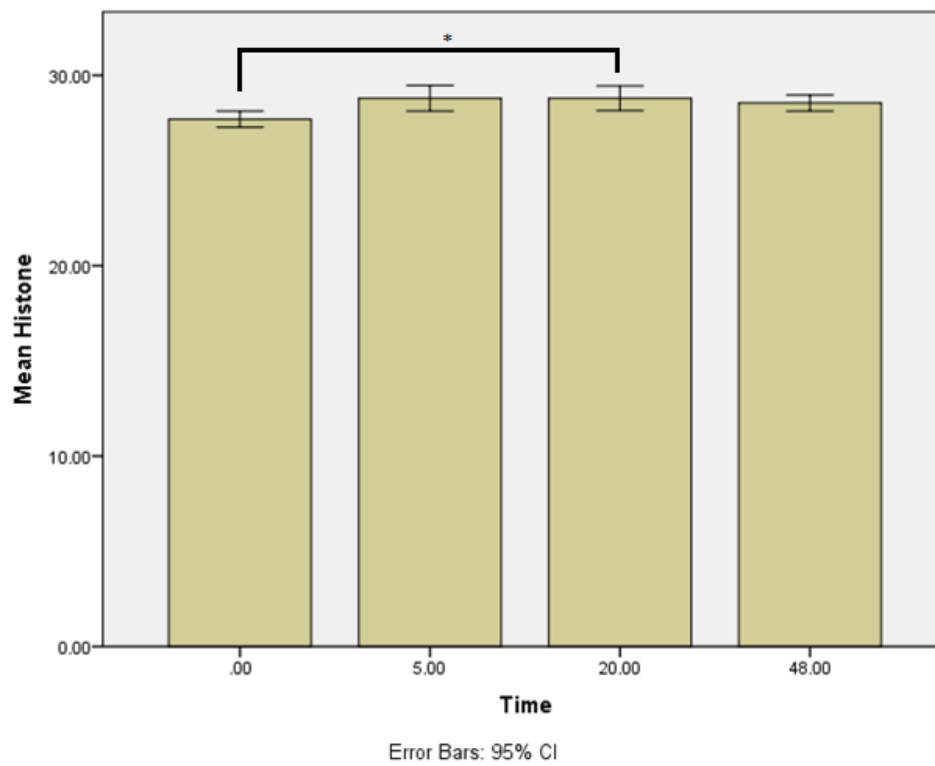Error Bars: 95% CI

S3: Full results of the 3-factorial ANOVAs of the main experiment

Tests of Between-Subjects Effects

Dependent Variable: Actin

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	547.783[a]	23	23.817	15.561	.000
Intercept	120094.506	1	120094.506	78463.235	.000
Treatment	25.952	2	12.976	8.478	.000
Time	11.635	3	3.878	2.534	.058
Colony	11.424	1	11.424	7.464	.007
Treatment * Time	189.580	6	31.597	20.644	.000
Treatment * Colony	57.479	2	28.740	18.777	.000
Time * Colony	14.866	3	4.955	3.238	.023
Treatment * Time * Colony	61.708	6	10.285	6.719	.000
Error	277.036	181	1.531		
Total	158000.152	205			
Corrected Total	824.819	204			

a. R Squared = .664 (Adjusted R Squared = .621)

Tests of Between-Subjects Effects

Dependent Variable: R28S

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	132.816[a]	23	5.775	3.070	.000
Intercept	63932.290	1	63932.290	33992.868	.000
Treatment	21.376	2	10.688	5.683	.004
Time	16.934	3	5.645	3.001	.032
Colony	.138	1	.138	.073	.787
Treatment * Time	14.865	6	2.477	1.317	.252
Treatment * Colony	8.054	2	4.027	2.141	.120
Time * Colony	12.378	3	4.126	2.194	.090
Treatment * Time * Colony	22.045	6	3.674	1.954	.075
Error	340.417	181	1.881		
Total	84321.653	205			
Corrected Total	473.232	204			

a. R Squared = .281 (Adjusted R Squared = .189)

Tests of Between-Subjects Effects

Dependent Variable: R18S

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1030.639[a]	23	44.810	5.773	.000
Intercept	99663.715	1	99663.715	12840.455	.000
Treatment	142.618	2	71.309	9.187	.000
Time	211.851	3	70.617	9.098	.000
Colony	27.272	1	27.272	3.514	.062
Treatment * Time	74.535	6	12.423	1.600	.149
Treatment * Colony	167.358	2	83.679	10.781	.000
Time * Colony	20.558	3	6.853	.883	.451
Treatment * Time * Colony	116.826	6	19.471	2.509	.023
Error	1404.867	181	7.762		
Total	146329.253	205			
Corrected Total	2435.506	204			

a. R Squared = .423 (Adjusted R Squared = .350)

Tests of Between-Subjects Effects

Dependent Variable: RPS5

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1627.673[a]	23	70.768	18.040	.000
Intercept	137922.177	1	137922.177	35158.452	.000
Treatment	125.405	2	62.702	15.984	.000
Time	171.905	3	57.302	14.607	.000
Colony	5.390	1	5.390	1.374	.243
Treatment * Time	403.570	6	67.262	17.146	.000
Treatment * Colony	9.146	2	4.573	1.166	.314
Time * Colony	25.766	3	8.589	2.189	.091
Treatment * Time * Colony	189.486	6	31.581	8.050	.000
Error	710.040	181	3.923		
Total	173354.960	205			
Corrected Total	2337.713	204			

a. R Squared = .696 (Adjusted R Squared = .658)

Tests of Between-Subjects Effects

Dependent Variable: mGST1

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	369.771[a]	23	16.077	7.097	.000
Intercept	107064.971	1	107064.971	47261.548	.000
Treatment	41.576	2	20.788	9.176	.000
Time	68.848	3	22.949	10.131	.000
Colony	.055	1	.055	.024	.876
Treatment * Time	56.428	6	9.405	4.151	.001
Treatment * Colony	1.877	2	.938	.414	.661
Time * Colony	16.516	3	5.505	2.430	.067
Treatment * Time * Colony	77.335	6	12.889	5.690	.000
Error	410.032	181	2.265		
Total	138990.789	205			
Corrected Total	779.803	204			

a. R Squared = .474 (Adjusted R Squared = .407)

Tests of Between-Subjects Effects

Dependent Variable: Histone

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	411.315[a]	23	17.883	6.434	.000
Intercept	123964.640	1	123964.640	44602.419	.000
Treatment	61.806	2	30.903	11.119	.000
Time	29.579	3	9.860	3.548	.016
Colony	9.291	1	9.291	3.343	.069
Treatment * Time	67.512	6	11.252	4.048	.001
Treatment * Colony	30.223	2	15.111	5.437	.005
Time * Colony	8.913	3	2.971	1.069	.364
Treatment * Time * Colony	93.853	6	15.642	5.628	.000
Error	503.058	181	2.779		
Total	167965.711	205			
Corrected Total	914.373	204			

a. R Squared = .450 (Adjusted R Squared = .380)