

SUPPLEMENTARY FILES (FIGURES AND TABLES)

Figure S1

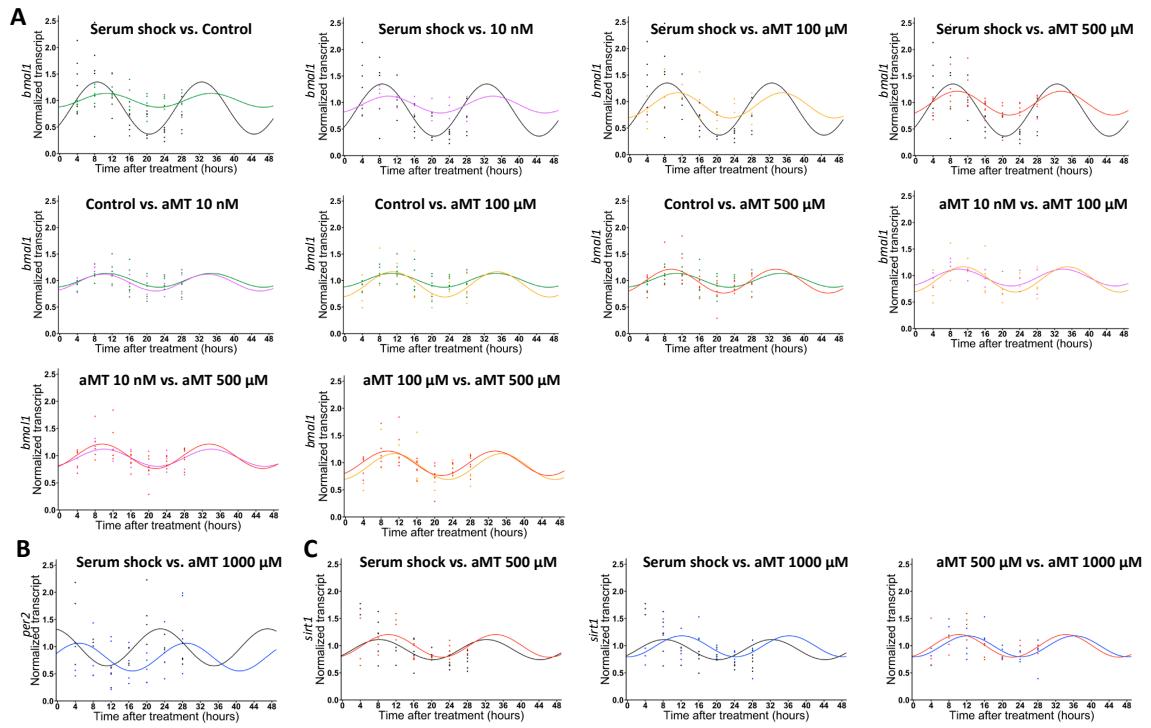


Figure S2

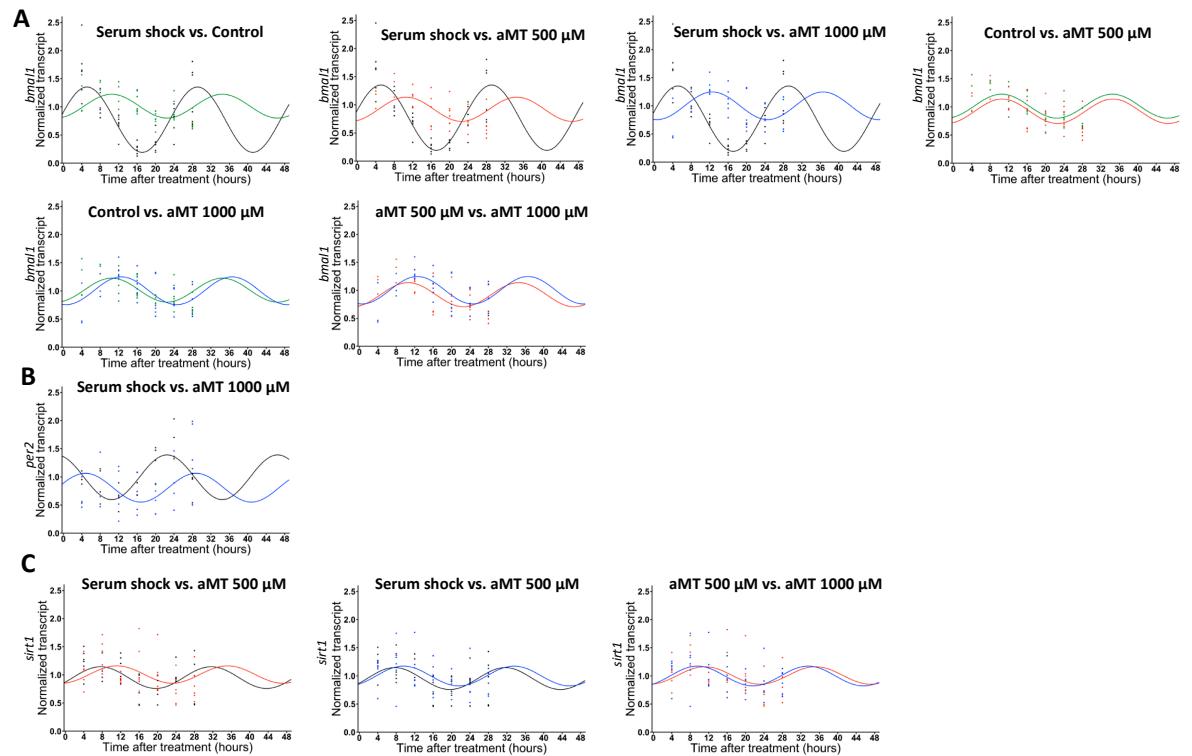


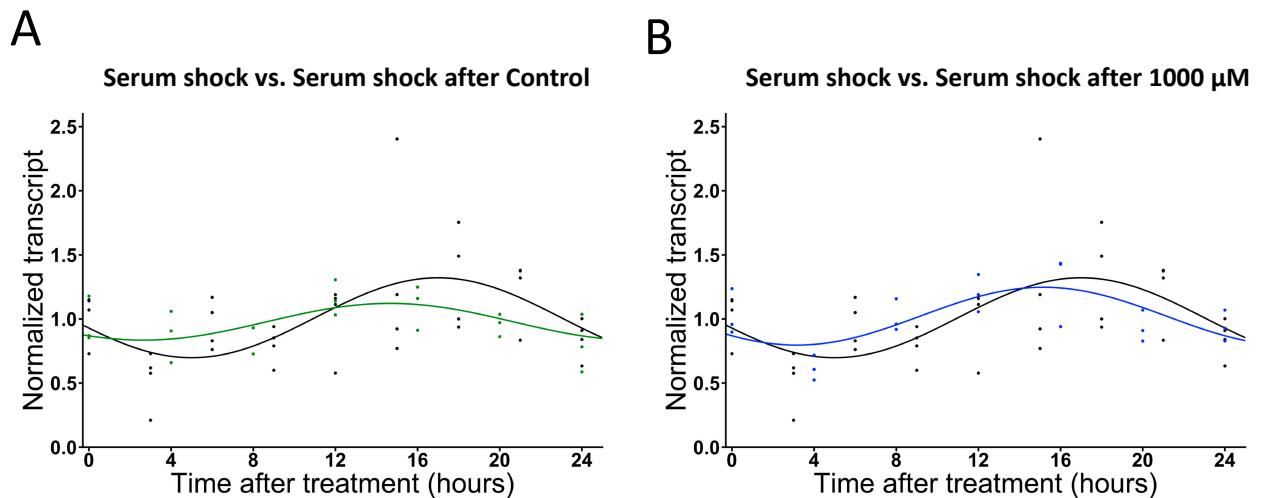
Table S1

Treatment	Presence of rhythmicity (p-value)	Acrophase	Amplitude
aMT 10 nM	<0.05	9.981817	0.158323
aMT 100 μM	<0.05	10.95637	0.238408

Table S2

Comparison	P-value for acrophase difference	P-value for amplitude difference
Serum shock vs. aMT 10 nM	ns (0.614919)	<0.05 (0.037591)
Serum shock vs. aMT 100 μM	ns (0.198786)	ns (0.119811)
Control vs. aMT 10 nM	ns (0.657939)	ns (0.718146)
Control vs. aMT 100 μM	ns (0.908333)	ns (0.241201)
aMT 10 nM vs. aMT 100 μM	ns (0.6226)	ns (0.474727)
aMT 10 nM vs. aMT 500 μM	ns (0.783253)	ns (0.445071)
aMT 100 μM vs. aMT 500 μM	ns (0.299178)	ns (0.898303)

Figure S3



LEGENDS FOR SUPPLEMENTARY FIGURES

Figure S1. Cal-27 Cosinor's best fits comparison of gene expression between different experimental groups.

(A) *bmal1*; (B) *per2*; (C) *sirt1*. Serum shock (black), control (green) and aMT 10 nM (purple), 100 μ M (orange), 500 μ M (red) and 1000 μ M (blue) treatments; n= 3-6 independent experiments.

Figure S2. SCC9 Cosinor's best fits comparison of gene expression between different experimental groups.

(A) *bmal1*; (B) *per2*; (C) *sirt1*. Serum shock (black), control (green) and aMT 500 μ M (red) and 1000 μ M (blue) treatments; n= 3-6 independent experiments.

Table S1. Cosinor analysis of relative expression of the clock gene *Bmal1* in HNSCC cell line Cal-27 after aMT treatments (10 nM and 100 μ M).

Table S2. Circadian rhythm comparison of relative expression of the clock genes *Bmal1* in HNSCC cell line Cal-27. * p<0.05.

Figure S3. Cosinor's best fits comparison of OCR between different experimental groups. (A) Serum shock treatment (black) versus serum shock after control treatment (green); (B) serum shock treatment (black) versus serum shock after melatonin 1000 μ M treatment (blue); n= 3-6 independent experiments.