

Supplementary Figure 1. Normal (Melan-a cells) and malignant melanocytes (B16-F10 cells) in free running. Gene expression was normalized by 18S RNA transcript and expressed relative to the minimal value of each cell line in DD (A-D). Gene expression values are shown as mean \pm SEM. p values are shown in the graphs. (A) Melan-a *Per1* n = 5 – 7; (B) Melan-a *Clock* n = 3 – 8; (C) B16-F10 *Per1* n = 6 – 8; (D) B16-F10 *Per1* n = 5 – 8.

Supplementary Figure 2. Representative emission spectrum of the UVA lamp used in this study. Note the peak at 365 nm and a minor violet component. No UVB radiation was detected during the experiments.

Supplementary Figure 3. Representative temperature profile during the experiments. (A) Temperature profile of UVA radiation associated with heat shock. Fifteen min after UVA lamps were turned on a 1 °C increase was observed; after further 15 min the temperature reached 39.5 °C and then plateaued at 40°C until the end of the experiment. (B) For the UVA *per se* experiment the temperature of the incubator was set at 33 °C, then UVA lamps were turned on and 45 minutes later the temperature reached 37 °C. The cells were then placed in the incubator and received UVA radiation at 37 °C (\pm 0.5 °C). The red lines represent the duration of the experiment.