

## **Metadata Description for Dataset**

### **File #1. culexpiens.alan.qpcr.data.csv**

uid: Unique identifier number assigned to each sample of 10 mosquito heads  
light.trt: Light treatment where “Control” is the absence of ALAN (ALAN-) and ALAN is the presence of ALAN (ALAN+)  
zt: Timepoint as Zeitgebers, coded as a continuous variable  
zeitgeber: Timepoint as Zeitgebers, coded as a factor for nonlinear analysis  
cohort: Samples were collected over 3 cohorts:  
    1: October 2020  
    2: April 2021  
    3: June 2021  
cq.rpL19: Average ct for all technical replicates for RpL19  
  
cq.rp49: Average ct for all technical replicates for Rp49  
  
cq.clk: Average ct for all technical replicates for clock  
  
rib.ref.ct: Geometric mean of the average Ct for both ribosomal proteins. Used as reference gene for relative expression  
  
cq.cyc: Average ct for all technical replicates for cycle  
  
cq.pdp1: Average ct for all technical replicates for Par domain protein 1  
  
cq.per: Average ct for all technical replicates for period  
  
cq.tim: Average ct for all technical replicates for timeless  
  
cq.cry2: Average ct for all technical replicates for cryptochrome 2

### **File #2: aedesalbo.alan.qpcr.data.csv**

lifestage: The lifestage of the samples, either adult for the maternal females or egg for their "diapausing" offspring  
  
light.trt: Light treatment where “Dark” is the absence of ALAN (ALAN-) and ALAN is the presence of ALAN (ALAN+)  
  
timepoint: timepoint as zeitgebers, as a continuous variable  
  
zeitgeber: timepoint as zeitgebers, as a factor

ct.rpl34: Average ct for all technical replicates for RpL34.

cq.rpl32: Average ct for all technical replicates for RpL32.

cq.rps17: Average ct for all technical replicates for RpS17.

avg.rib.ct: Geometric mean of the average Ct RpL34, RpL32, and RpS17. This will be our reference "gene" for relative expression in heads.

ct.cyc: Average ct for all technical replicates for cycle

ct.clk: Average ct for all technical replicates for cycle

ct.per: Average ct for all technical replicates for period

ct.tim` : Average ct for all technical replicates for timeless

ct.cry1: Average ct for all technical replicates for cryptochrome 1

cq.cry2: Average ct for all technical replicates for cryptochrome 2

rib.ref.2: Geometric mean of the average Ct RpL34 and RpL32. This will be our reference "gene" for relative expression in eggs.