**Figure checks**

**Figure 1**

1A x

1B x

1C x

1D – mistake in figure legend – plot is good

1E x

1F – P > 0.515 instead of P > 0.347

1G x

1H x

1I x

1J – P = 0.188 instead of 0.177

**Figure 1 – S1 (intensity)**

1-S1A x

1-S1B x

1-S1C – P < 0.001 instead of P = 0.010 – new fit and new stats

**Figure 1 – S2** (comparison of genotypes light vs. light)

1-S2 x

**Fig 1-S2: Melanopsin-dependence of light-induced body temperature changes.** Relative change in mean body temperature in Wildtype (n = 15), Melanopsin-only (*Gnat1-/-*;*Gnat2-/-*, n = 11) or Melanopsin KO (*Opn4-/-*, n = 6) for the 3 hours during the light pulse or during the previous control night (ZT14-17). Columns and errorbars represent mean ± standard deviation and dots represent individual animals. *P* values from linear mixed model with fixed effects of genotype and light exposure and a random effect of mouse.

**Figure 2:**

2A x

2B x

2C x P = 0.230 instead of P = 0.223

2D x

2E x

2F x

2G x P = 0.286 instead of P = 0.287

**Figure 2-S1** (comparison of genotypes light vs. light)

2-S1 x

**Fig 2-S1: Brn3b-DTA body temperature regulation with light.** Relative change in mean body temperature in Control (*Opn4Cre/+,* n = 9) or Brn3b-DTA mice (*Opn4Cre/+*;*Brn3bzDTA/+*, n = 7) for the 3 hours during the light pulse or during the previous control night (ZT14-17). Columns and errorbars represent mean ± standard deviation and dots represent individual animals. *P* values from linear mixed model with fixed effects of genotype and light exposure and a random effect of mouse.

**Figure 3:**

3A x

3B x

3C x

3D x

3E – P = 0.001 instead of P = 0.002

**Figure 3-S1:**

3-S1A x

3-S1B x

3-S1C x

3-S1D

**Fig 3-S1: Brn3b-Cre::hM3D(Gq) expression and control experiments.** (**A**) mCherry expression (magenta) from Brn3b-Cre with AAV-DIO-hM3D(Gq)-mCherry injected in to the retina and colocalized with melanopsin (OPN4, green). Scale bar = 50 µm. (**B**) Quantification of mCherry / OPN4 colocalization (n = 3) mice. (**C**) The same data as in **B**, expressed as the fraction of OPN4+ cells that colocalize with mCherry expression (n = 3 mice). (**D**) Relative change in mean body temperature in Control (n = 9) or Brn3b-Cre mice (n = 8) injected with AAV-DIO-hM3D(Gq)-mCherry for the 6 hours following PBS or CNO injection. Columns and errorbars represent mean ± standard deviation and dots represent individual animals. *P* values from linear mixed model with fixed effects of genotype and light exposure and a random effect of mouse.

**Figure 3-S2:** WT CNO

3-S2A x

3-S2B x

3-S2C x

3-S2D – P = 0.140 instead of P = 0.224

**Figure 4:**

4A x

4B – 3 points are significant vs. Control by linear mixed model, plot is good

4C x

4D – more points are sig (1, 2, 3, 6), plot is good

4E x

4F – \*\* for first point, plot is good

4G – P = 0.375 instead of P = 0.495

**Figure 4-S1**

4-S1A x

4-S1B x

4-S1C x

4-S1D? (new plot)