

Temperature measurements for WALISAR

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This document presents the temperature measurements for the WALISAR chamber. The measurements were taken while the same light protocol was running as which the behavioral results were obtained. The raw data for the temperature readings can be found within the same Zenodo entry as supplementary files. The behaviour protocol is detailed in our study, titled: “Majority of primary olfactory neurons have individually neutral effects on behavior”.

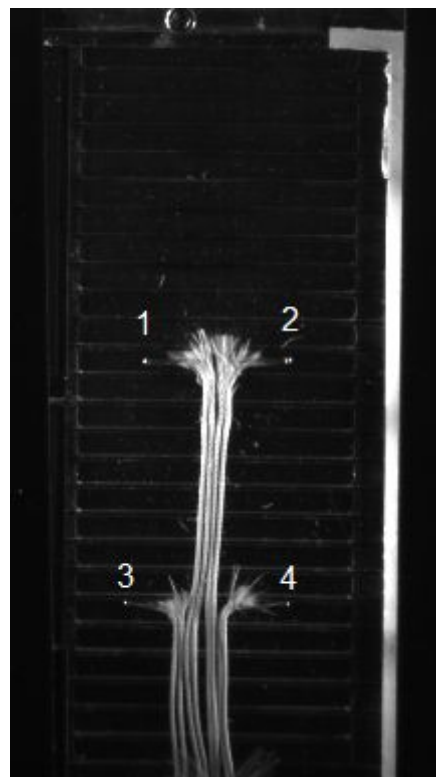


Figure 1. Four thermocouples (TCs) were placed in the WALISAR chamber with the lid on (TC1: Left middle, TC2: Right middle, TC3: Left bottom, TC4: Right bottom)

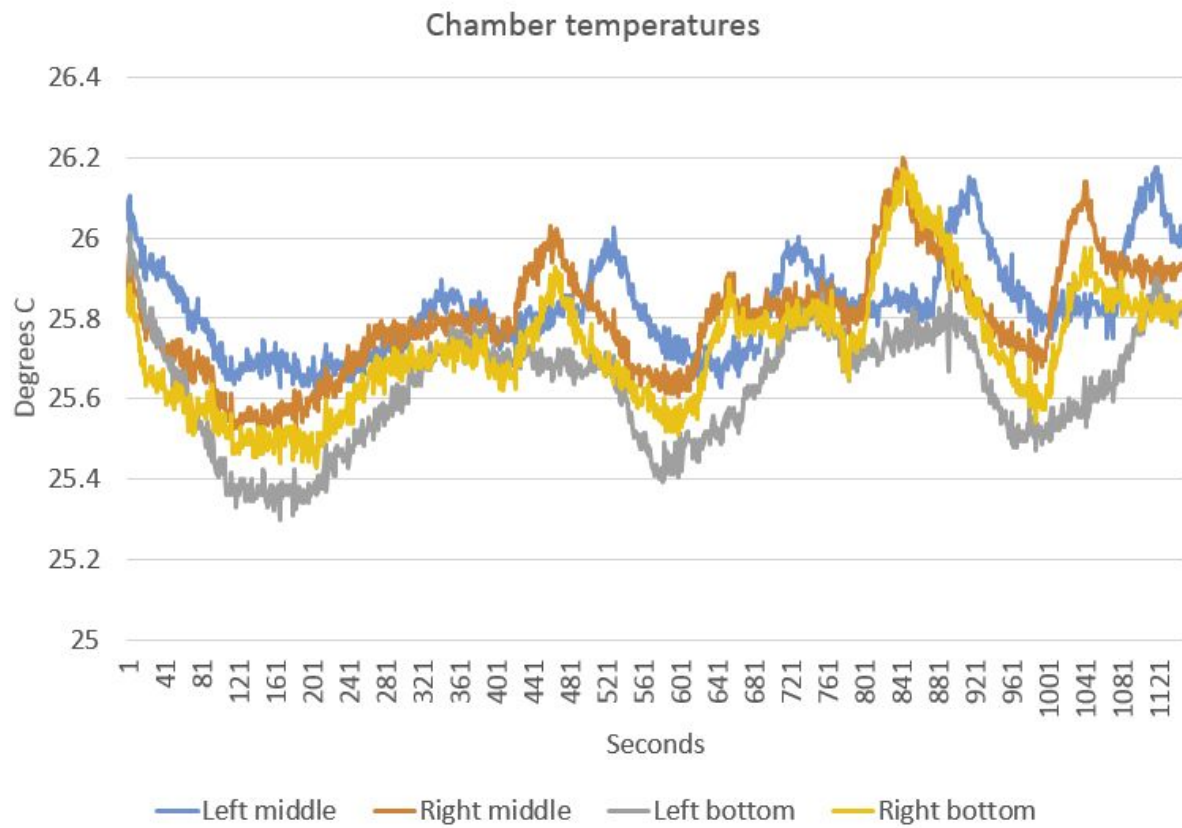


Figure 2. The absolute temperatures of four thermocouples during the full WALISAR protocol

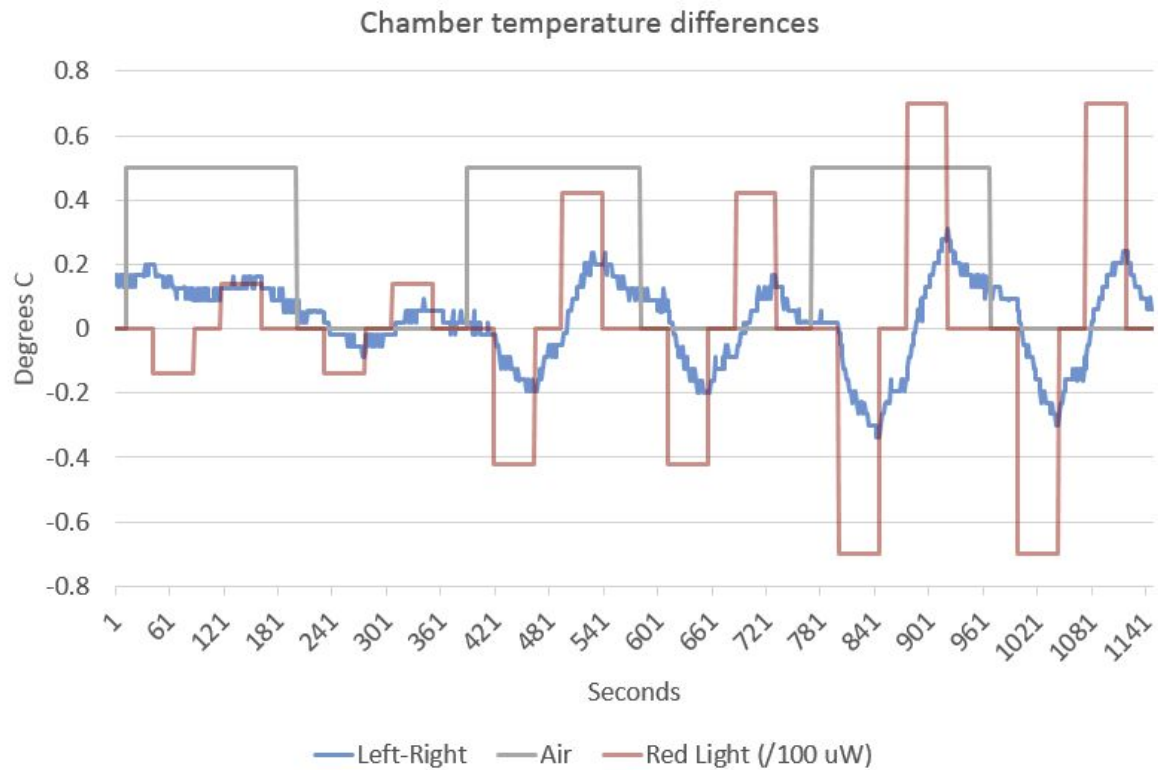


Figure 3. The difference in temperature between left and right chambers

Over-layed is the timing of the air ON/OFF (grey line), and the LED light (red line) which indicates intensity (14, 42, 70 $\mu\text{W}/\text{mm}^2$) and side left/right (+ve/-ve).