Tables\_Wild\_2024

Kristoffer Wild

2024-06-28

## Tables

**Table S1**. Basal, OXPHOS, LEAK, RCR ANOVA model output.

| Test | term | sumsq | df | statistic | p.value |
| --- | --- | --- | --- | --- | --- |
| Basal | temp | 0.002 | 1 | 0.100 | 0.752 |
| hormone | 0.088 | 2 | 1.917 | 0.154 |
| scale(Juvenile3\_Age) | 0.017 | 1 | 0.746 | 0.390 |
| **sex** | **0.363** | **1** | **15.775** | **0.000** |
| **juv3\_mass\_g** | **0.114** | **1** | **4.937** | **0.029** |
| juv3\_oroboros | 0.012 | 1 | 0.523 | 0.472 |
| juv3\_oroboros:chamber | 0.006 | 1 | 0.271 | 0.604 |
| Residuals | 1.726 | 75 |  |  |
| OXPHOS | temp | 1.768 | 1 | 1.391 | 0.242 |
| hormone | 5.238 | 2 | 2.061 | 0.135 |
| **sex** | **9.932** | **1** | **7.815** | **0.007** |
| scale(Juvenile3\_Age) | 0.278 | 1 | 0.219 | 0.641 |
| **juv3\_mass\_g** | **5.774** | **1** | **4.543** | **0.036** |
| juv3\_oroboros | 0.000 | 1 | 0.000 | 0.995 |
| juv3\_oroboros:chamber | 0.162 | 1 | 0.128 | 0.722 |
| Residuals | 95.319 | 75 |  |  |
| LEAK | temp | 0.011 | 1 | 0.643 | 0.425 |
| hormone | 0.044 | 2 | 1.307 | 0.277 |
| **sex** | **0.214** | **1** | **12.702** | **0.001** |
| scale(Juvenile3\_Age) | 0.019 | 1 | 1.123 | 0.293 |
| juv3\_mass\_g | 0.064 | 1 | 3.817 | 0.054 |
| juv3\_oroboros | 0.002 | 1 | 0.138 | 0.711 |
| juv3\_oroboros:chamber | 0.003 | 1 | 0.203 | 0.654 |
| Residuals | 1.263 | 75 |  |  |
| RCR | temp | 26.721 | 1 | 3.140 | 0.080 |
| hormone | 14.284 | 2 | 0.839 | 0.436 |
| sex | 6.217 | 1 | 0.731 | 0.395 |
| scale(Juvenile3\_Age) | 26.230 | 1 | 3.082 | 0.083 |
| juv3\_mass\_g | 2.923 | 1 | 0.343 | 0.560 |
| juv3\_oroboros | 0.315 | 1 | 0.037 | 0.848 |
| juv3\_oroboros:chamber | 5.958 | 1 | 0.700 | 0.405 |
| Residuals | 638.264 | 75 |  |  |

**Table S2**. Mass ANOVA model output.

| Test | term | sumsq | df | statistic | p.value |
| --- | --- | --- | --- | --- | --- |
| Basal | basal\_corrected\_pmol | 0 | 1 | 0.612 | 0.437 |
| **sex** | **0** | **1** | **20.292** | **0.000** |
| **log(CORT\_Final\_Hormone\_ng\_mL)** | **0** | **1** | **5.025** | **0.028** |
| log(T4\_corrected\_ng\_mL) | 0 | 1 | 0.187 | 0.667 |
| Residuals | 0 | 67 |  |  |
| OXPHOS | adp\_corrected\_pmol | 0 | 1 | 1.615 | 0.208 |
| **sex** | **0** | **1** | **21.928** | **0.000** |
| **log(CORT\_Final\_Hormone\_ng\_mL)** | **0** | **1** | **4.602** | **0.036** |
| log(T4\_corrected\_ng\_mL) | 0 | 1 | 0.085 | 0.771 |
| Residuals | 0 | 67 |  |  |
| Leak | oligo\_corrected\_pmol | 0 | 1 | 0.447 | 0.506 |
| **log(CORT\_Final\_Hormone\_ng\_mL)** | **0** | **1** | **5.583** | **0.021** |
| log(T4\_corrected\_ng\_mL) | 0 | 1 | 0.163 | 0.688 |
| **sex** | **0** | **1** | **19.972** | **0.000** |
| Residuals | 0 | 67 |  |  |
| RCR | RCR | 0 | 1 | 0.194 | 0.661 |
| **sex** | **0** | **1** | **19.765** | **0.000** |
| **log(CORT\_Final\_Hormone\_ng\_mL)** | **0** | **1** | **5.249** | **0.025** |
| log(T4\_corrected\_ng\_mL) | 0 | 1 | 0.101 | 0.751 |
| Residuals | 0 | 67 |  |  |

**Table S3** SVL ANOVA model output.

| Test | term | sumsq | df | statistic | p.value |
| --- | --- | --- | --- | --- | --- |
| BASAL | basal\_corrected\_pmol | 0.000 | 1 | 0.594 | 0.443 |
| **sex** | **0.000** | **1** | **6.388** | **0.014** |
| log(CORT\_Final\_Hormone\_ng\_mL) | 0.000 | 1 | 2.391 | 0.127 |
| log(T4\_corrected\_ng\_mL) | 0.000 | 1 | 0.000 | 0.990 |
| Residuals | 0.002 | 67 |  |  |
| OXPHOS | adp\_corrected\_pmol | 0.000 | 1 | 2.149 | 0.147 |
| log(CORT\_Final\_Hormone\_ng\_mL) | 0.000 | 1 | 2.011 | 0.161 |
| log(T4\_corrected\_ng\_mL) | 0.000 | 1 | 0.030 | 0.864 |
| **sex** | **0.000** | **1** | **7.455** | **0.008** |
| Residuals | 0.002 | 67 |  |  |
| Leak | oligo\_corrected\_pmol | 0.000 | 1 | 0.482 | 0.490 |
| **sex** | **0.000** | **1** | **6.265** | **0.015** |
| log(CORT\_Final\_Hormone\_ng\_mL) | 0.000 | 1 | 2.750 | 0.102 |
| log(T4\_corrected\_ng\_mL) | 0.000 | 1 | 0.002 | 0.968 |
| Residuals | 0.002 | 67 |  |  |
| RCR | RCR | 0.000 | 1 | 0.800 | 0.374 |
| **sex** | **0.000** | **1** | **5.682** | **0.020** |
| log(CORT\_Final\_Hormone\_ng\_mL) | 0.000 | 1 | 2.363 | 0.129 |
| log(T4\_corrected\_ng\_mL) | 0.000 | 1 | 0.040 | 0.843 |
| Residuals | 0.002 | 67 |  |  |

**Table SXX** Mitochondrial parameters and their relationships between CORT, T4, and Sex. Mitochondrial parameters were adjusted for individual mass, and CORT and T4 were log-transformed to meet assumptions for normality. Finally, oroboros chamber was accounted for in the model.

| Test | term | sumsq | df | statistic | p.value |
| --- | --- | --- | --- | --- | --- |
| BASAL | log(CORT\_Final\_Hormone\_ng\_mL) | 0.003 | 1 | 0.198 | 0.658 |
| log(T4\_corrected\_ng\_mL) | 0.002 | 1 | 0.188 | 0.666 |
| **sex** | **0.137** | **1** | **10.790** | **0.002** |
| juv3\_oroboros | 0.006 | 1 | 0.451 | 0.504 |
| juv3\_oroboros:chamber | 0.000 | 1 | 0.003 | 0.957 |
| Residuals | 0.873 | 69 |  |  |
| OXPHOS | log(CORT\_Final\_Hormone\_ng\_mL) | 0.211 | 1 | 0.312 | 0.578 |
| log(T4\_corrected\_ng\_mL) | 0.346 | 1 | 0.512 | 0.477 |
| **sex** | **6.434** | **1** | **9.525** | **0.003** |
| juv3\_oroboros | 0.263 | 1 | 0.389 | 0.535 |
| juv3\_oroboros:chamber | 0.023 | 1 | 0.034 | 0.853 |
| Residuals | 46.613 | 69 |  |  |
| Leak | log(CORT\_Final\_Hormone\_ng\_mL) | 0.003 | 1 | 0.281 | 0.598 |
| log(T4\_corrected\_ng\_mL) | 0.000 | 1 | 0.010 | 0.921 |
| **sex** | **0.096** | **1** | **10.720** | **0.002** |
| juv3\_oroboros | 0.000 | 1 | 0.019 | 0.891 |
| juv3\_oroboros:chamber | 0.000 | 1 | 0.009 | 0.925 |
| Residuals | 0.618 | 69 |  |  |
| RCR | log(CORT\_Final\_Hormone\_ng\_mL) | 10.120 | 1 | 1.184 | 0.280 |
| log(T4\_corrected\_ng\_mL) | 19.785 | 1 | 2.315 | 0.133 |
| sex | 0.828 | 1 | 0.097 | 0.757 |
| juv3\_oroboros | 5.148 | 1 | 0.602 | 0.440 |
| juv3\_oroboros:chamber | 0.354 | 1 | 0.041 | 0.839 |
| Residuals | 589.690 | 69 |  |  |