**Growth patterns in male rats exposed to concurrent long-term environmental challenges**

**SUPPLEMENTARY TABLES**

**Table S1**. Linear mixed model describing the effect of treatments on relative food intake (relFI).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Estimate** | **Standard****error** | ***T-*value** | ***P-*value** | **ΔAICc** |
| Intercept | 0.729 | 0.016 | 46.18 | <0.001 |  |
| SC | 0.022 | 0.017 | 1.30 | 0.195 |  |
| FR | -0.082 | 0.014 | -5.80 | <0.001 |  |
| Week | -0.048 | 0.005 | -9.70 | <0.001 |  |
| Week2 | 0.002 | 0.001 | 3.76 | <0.001 |  |
| FR\*Week | 0.008 | 0.001 | 5.52 | <0.001 | 27.1 |
| SC\*Week | -0.016 | 0.006 | -2.69 | 0.008 | 5.1 |
| SC\*Week2 | 0.001 | 0.001 | 2.13 | 0.034 | 2.4 |

Model: lmer(relFI~FR\*Week+SC\*Week+SC\*I(Week^2)+(1|cage ID/Individual ID))

**Table S2**. Linear mixed model describing the effect of treatments on weekly body mass (wBM).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Estimate** | **Standard****error** | ***T-*value** | ***P-*value** | **ΔAICc** |
| Intercept | 150.878 | 7.649 | 19.73 | <0.001 |  |
| SC | -1.123 | 9.321 | -0.12 | 0.904 |  |
| FR | -15.945 | 10.708 | -1.49 | 0.138 |  |
| Week | 38.747 | 1.078 | 35.94 | <0.001 |  |
| Week2 | -1.669 | 0.102 | -16.37 | <0.001 |  |
| SC\*FR | 10.568 | 12.980 | 0.81 | 0.416 |  |
| FR\*Week | -24.480 | 1.133 | -21.60 | <0.001 |  |
| SC\*Week | -4.137 | 1.163 | -3.56 | <0.001 |  |
| FR\*Week2 | 1.279 | 0.102 | 12.53 | <0.001 | 121.5 |
| SC\*Week2 | 0.258 | 0.108 | 2.39 | <0.018 | 3.6 |
| SC\*FR\*Week | 1.648 | 0.604 | 2.73 | 0.007 | 5.3 |

Model: lmer(BM~SC\*FR\*Week+SC\*I(Week^2)+FR\*I(Week^2)+(1|cage ID/Individual ID))

**Table S3**. Linear mixed model describing the effect of treatments on weekly body mass gain (wBMG).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Estimate** | **Standard****error** | ***T-*value** | ***P-*value** | **ΔAICc** |
| Intercept | 39.731 | 1.412 | 28.13 | <0.001 |  |
| SC | -0.636 | 0.923 | -0.69 | 0.491 | -1.7 |
| FR | -15.667 | 1.273 | -12.31 | <0.001 |  |
| Week | -4.070 | 0.512 | -7.95 | <0.001 | 55.7 |
| Week2 | 0.110 | 0.051 | 2.15 | 0.033 |  |
| FR\*Week2 | 0.148 | 0.0265 | 5.58 | <0.001 | 28 |

Model: lmer(BMG~SC+Week+FR\*I(Week^2)+(1|cage ID/Individual ID))

**Table S4**. Linear mixed model describing the effect of treatments on weekly body mass index (wBMI).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Term** | **Estimate** | **Standard****error** | ***T-*value** | ***P-*value** | **ΔAICc** |
| Intercept | 1.06e+00 | 4.86e-04 | 2176.9 | <0.001 |  |
| SC | -2.00e-04 | 4.09e-04 | -0.5 | 0.625 | -1.9 |
| FR | -4.94e-04 | 5.69e-04 | -0.9 | 0.386 |  |
| Week | 1.40e-03 | 1.50e-04 | 9.3 | <0.001 |  |
| Week2 | -6.43e-05 | 1.44e-05 | -4.5 | <0.001 |  |
| FR\*Week | -1.29e-03 | 2.12e-04 | -6.1 | <0.001 | 32.9 |
| FR\*Week2 | 1.04e-04 | 2.04e-05 | 5.1 | <0.001 | 22.7 |

Model: lmer(BMI^.1~SC+FR\*Week+FR\*I(Week^2)+(1|cage ID/Individual ID))