**Supplementary Tables**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Means and Medians for Survival Time (Hours)** | | | | | | | | |  |
| Group | Mean | | | | Median | | | | |
| Estimatconcoe | Std. Error | 95% Confidence Interval | | Estimate | Std. Error | 95% Confidence Interval | | |
| Lower Bound | Upper Bound | Lower Bound | Upper Bound | |
| Light  Environment | 5.380 | . 224 | 4.940 | 5. 820 | 5.000 | . 495 | 4.030 | 5.970 | |
| Dark Environment | 5.487 | .214 | 5.068 | 5.906 | 5.000 | .408 | 4.200 | 5.800 | |
| Climatic Chamber | 7.831 | .220 | 7.385 | 8.249 | 8.000 | - | - | - | |
| Overall | 5.831 | .142 | 5.552 | 6.109 | 6.000 | .315 | 5.380 | 6.620 | |

**Supplementary Table S1:** The mean and median of survival miracidia of *S. mansoni* related with the three conditions of environment in Li observations.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Means and Medians for Survival Time (minutes)** | | | | | | | | |
| Group | Mean | | | | Median | | | |
| Estimate | Std. Error | 95% Confidence Interval | | Estimate | Std. Error | 95% Confidence Interval | |
| Lower Bound | Upper Bound | Lower Bound | Upper Bound |
| Light  Environment | 216.6 | 8.524 | 199.894 | 233.306 | 210 | 10.452 | 189.515 | 230.485 |
| Dark Environment | 225 | 9.539 | 206.303 | 243.697 | 210 | 10.498 | 189.424 | 230.576 |
| Climatic Chamber | 219 | 9.2 | 200.968 | 237.032 | 180 | 11.102 | 158.24 | 201.76 |
| Dark Climatic Chamber | 202.8 | 9.087 | 184.99 | 220.61 | 180 | 8.566 | 163.211 | 196.789 |
| Overall | 215.85 | 4.548 | 206.935 | 224.765 | 180 | 5.6 | 169.023 | 190.977 |

**Supplementary Table S2:** The mean and median of survival miracidia of *S. mansoni* related with the four conditions of environment in Si, and the overall.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Climatic Chamber | Light Environment | Dark Environment | Overall |
| Minimum | 1 | 1 | 1 | 1 |
| Median | 5 | 4 | 4 | 4 |
| Maximum | 9 | 9 | 9 | 9 |
| Range | 8 | 8 | 8 | 8 |
|  |  |  |  |  |
| 95% CI of median |  |  |  |  |
| Actual confidence level | 95.91% | 95.91% | 95.91% | 95.75% |
| Lower confidence limit | 4 | 3 | 3 | 4 |
| Upper confidence limit | 6 | 4 | 5 | 5 |
|  |  |  |  |  |
| Mean | 4.567 | 4.293 | 4.48 | 4.447 |
| Std. Deviation | 2.44 | 2.587 | 2.825 | 2.619 |
| Std. Error of Mean | 0.1992 | 0.2112 | 0.2307 | 0.1234 |
|  |  |  |  |  |
| Coefficient of variation | 53.42% | 60.25% | 63.07% | 58.89% |

**Supplementary Table S3:** Mean and median of *S. mansoni* miracidia infectivity in Si observation.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Climatic Chamber | Drak Climatic Chamber | Light Environment | Dark Environment | Overall |
| Minimum | 1 | 1 | 1 | 1 | 1 |
| Median | 2.5 | 2 | 2.5 | 2 | 2 |
| Maximum | 9 | 8.5 | 7 | 9 | 9 |
| Range | 8 | 7.5 | 6 | 8 | 8 |
|  |  |  |  |  |  |
| 95% CI of median |  |  |  |  |  |
| Actual confidence level | 96.48% | 96.48% | 96.48% | 96,48% | 95.98% |
| Lower confidence limit | 2 | 2 | 2 | . | 2 |
| Upper confidence limit | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
|  |  |  |  |  |  |
| Mean | 2.57 | 2.4 | 2.68 | 2.63 | 2.57 |
| Std. Deviation | 1.281 | 1.275 | 1.264 | 1,421 | 1.311 |
| Std. Error of Mean | 0.1281 | 0.1275 | 0.1264 | 0.1421 | 0.06556 |
|  |  | . |  |  |  |
| Coefficient of variation | 49.85% | 53.14% | 47.18% | 54.02% | 51.02% |

**Supplementary Table S4**: Mean and median of *S. mansoni* miracidia infectivity in Li observation.

See also separate Supplementary Excel Files Supplementary\_Data\_Motility\_SI.xls and Supplementary\_Data\_Motility\_LI.xls