|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Linear regression: Colony size between trials**  Model 1 = Formula: log(avg.worker Trial 2) ~ log(avg.worker Trial 1)  Model 2 = Formula: log(avg.brood Trial2) ~ 1+ offset(log(avg.brood Trial1)) | | | | |
|
| Fixed effects: | *β* a | *SE* b | *t c* | *p* |
| *Brood* |  |  |  |  |
| Model 1 |  |  |  |  |
| (Intercept) | 2.033 | 0.652 | 3.118 | **0.008** |
| log(avg.brood Trial 2) | 0.573 | 0.163 | 3.499 | **0.003** |
| Model 2 |  |  |  |  |
| (Intercept) | 0.376 | 0.169 | 2.226 | **0.042** |
| *Workers* |  |  |  |  |
| Model 1 |  |  |  |  |
| (Intercept) | 3.191 | 0.934 | 3.402 | **0.004** |
| log(avg.workers Trial 2) | 0.330 | 0.230 | 1.430 | 0.175 |
| Model 2 |  |  |  |  |
| (Intercept) | 0.501 | 0.195 | 2.565 | **0.022** |
| Model Statistics: |  |  |  |  |
| Number of obs: 16  *Brood*:  (Model 1): Residual standard error = 0.574; Degrees of freedom: 14  (Model 2): Residual standard error = 0.676; Degrees of freedom: 15  (Model 1): Multiple R2 = 0.467; Adjusted R2 = 0.429; (Model 2): N/A  F(1, 14) = 12.24; *p* = 0.004  *Workers*:  (Model 1): Residual standard error = 0.638; Degrees of freedom: 14  (Model 2): Residual standard error = 0.781; Degrees of freedom: 15  (Model 1): Multiple R2 = 0.128; Adjusted R2 = 0.065; (Model 2) N/A  F(1, 14) = 2.045; *p* = 0.175  a Coefficient  b Standard error  c T statistic | | | | |