#### **Table S3.2** Bacterial diversity of nest during incubation and post-hatching accounting for nest identity using a linear mixed model (model 3, n=92) and of eggshell during incubation using a linear model (model 4, n=43) in the three populations.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NEST** (model 3) |  |  |  |  |  |
| **Effect** | **Estimate** | **SE** | **t** | **p-value** | **95% CI** |
| Fixed |  |  |  |  |  |
| Intercept (Ref. EPirio - Post-hatching) | 3.61 | 0.34 | 10.76 | <0.001 | [ 2.99, 4.23] |
| Aromatic plant quantity | -0.90 | 0.35 | -2.57 | 0.012 | [-1.54, -0.25] |
| Incubation | 1.73 | 0.42 | 4.16 | <0.001 | [ 0.96, 2.50] |
| Aromatic plant quantity:Incubation | 1.00 | 0.43 | 2.33 | 0.023 | [ 0.21, 1.80] |
| DMuro | 1.02 | 0.38 | 2.69 | 0.009 | [ 0.32, 1.72] |
| DMuro: |  |  |  |  |  |
| Aromatic plant quantity | 1.05 | 0.39 | 2.71 | 0.008 | [ 0.33, 1.76] |
| Incubation | -1.58 | 0.47 | -3.35 | 0.002 | [-2.45, -0.71] |
| Aromatic plant quantity:Incubation | -1.49 | 0.51 | -2.94 | 0.005 | [-2.42, -0.55] |
| EMuro | 0.99 | 0.45 | 2.21 | 0.030 | [ 0.16, 1.82] |
| EMuro: |  |  |  |  |  |
| Aromatic plant quantity | 0.76 | 0.42 | 1.80 | 0.076 | [ -0.02, 1.53] |
| Incubation | -1.32 | 0.55 | -2.37 | 0.022 | [-2.35, -0.29] |
| Aromatic plant quantity:Incubation | -0.67 | 0.57 | -1.19 | 0.240 | [ -1.72, 0.37] |
| **Effect** | **R2adjusted** | **SE** |  | **p-value** | **95% CI** |
| Random |  |  |  |  |  |
| Nest | 0.23 | 0.13 |  | 0.05 | [ 0.00, 0.50] |
| Residual | 0.77 |  |  |  |  |
| **EGGSHELL** (model 4) |  |  |  |  |  |
| **Effect** | **Estimate** | **SE** | **t** | **p-value** | **95% CI** |
| Intercept (Ref. EPirio) | 2.36 | 0.32 | 7.47 | <0.001 | [ 1.72, 3.00] |
| Aromatic plant quantity | -0.52 | 0.26 | -2.03 | 0.05 | [-1.04, 0.00] |
| DMuro | 0.46 | 0.35 | 1.31 | 0.20 | [-0.25, 1.18] |
| DMuro:Aromatic plant quantity | 0.58 | 0.31 | 1.86 | 0.07 | [-0.05, 1.22] |
| EMuro | 0.74 | 0.42 | 1.79 | 0.08 | [-0.10, 1.59] |
| EMuro:Aromatic plant quantity | 0.28 | 0.36 | 0.80 | 0.43 | [-0.44, 1.01] |