**Table S3.** Results from linear mixed models (LMMs) testing the effect of sex (fixed), the number of days after laying (fixed), the interaction between sex and number of days after laying (fixed) and pair ID (random) on the alpha diversity, namely chemical diversity (Shannon index) and richness (number of substances), of the preen oil of Kentish plovers (*N* = 20 samples; 9 females and 11 males).

|  |  |  |
| --- | --- | --- |
| **Chemical diversity** | β [95% CI] | Variance |
| Sex (male) | 0.09 [–0.15, 0.36] | **—** |
| Days after laying | 0.00 [–0.01, 0.01] | **—** |
| Sex × Days after laying | 0.00 [–0.02, 0.01] | **—** |
| Pair ID | **—** | 0 |
|  |  |  |
| **Chemical richness** | β [95% CI] | Variance |
| Sex (male) | 5.88 [–12.7, 26.4] | **—** |
| Days after laying | 0.02 [–0.81,0.86] | **—** |
| Sex × Days after laying | –0.32 [–1.73, 0.93] | **—** |
| Pair ID | **—** | 0 |