**Table S4.1** Developmental index in relation with hatching date and population, controlling for the clutch identity as assessed by a linear model (n=1193). The hatching date has been scaled by population in the analysis.

| **Effect** | **Estimate** | **SE** | **t-value** | **p-value** | **95% CI** |
| --- | --- | --- | --- | --- | --- |
| Intercept (Ref. DMuro) | 0.23 | 0.05 | 4.63 | <0.001 | [ 0.13, 0.33] |
| Hatching date | 0.08 | 0.03 | 2.66 | 0.009 | [ 0.02, 0.15] |
| EMuro | 0.06 | 0.08 | 0.76 | 0.450 | [-0.10, 0.23] |
| EPirio | 0.42 | 0.08 | 5.23 | <0.001 | [ 0.26, 0.57] |
| **Effect** | **R2adjusted** | **SE** |  | **p-value** | **95% CI** |
| Random |  |  |  |  |  |
| Nest | 0.47 | 0.04 |  | <0.001 | [ 0.39, 0.55] |
| Residual | 0.53 |  |  |  |  |