Table 1: **Multilevel Meta-analytic Models for Exploratory Analyses**

|  | lnRR | | | | | | | | | SMDH | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Level | Q | Q p-val | R²\_mar | Estimate | P-val | 95% CI | 95% PI | k | n | Q | Q p-val | R²\_mar | Estimate | P-val | 95% CI | 95% PI | k | n |
| Bird Species | | | | | | | | | | | | | | | | | | |
| Buteo buteo |  |  |  | -0.109 | 0.722 | [-0.712, 0.494] | [-0.841, 0.623] | 9 | 1 |  |  |  | -0.251 | 0.732 | [-1.691, 1.189] | [-2.263, 1.761] | 9 | 1 |
| Cyanistes caeruleus |  |  |  | 0.006 | 0.969 | [-0.283, 0.294] | [-0.499, 0.511] | 68 | 10 |  |  |  | 0.087 | 0.866 | [-0.926, 1.100] | [-1.646, 1.819] | 74 | 10 |
| Parus major |  |  |  | -0.037 | 0.812 | [-0.343, 0.269] | [-0.552, 0.478] | 19 | 1 |  |  |  | 0.651 | 0.275 | [-0.521, 1.822] | [-1.178, 2.480] | 22 | 1 |
| Passer cinnamomeus |  |  |  | 0.228 | 0.185 | [-0.110, 0.567] | [-0.307, 0.764] | 6 | 1 |  |  |  | 0.955 | 0.193 | [-0.485, 2.396] | [-1.057, 2.968] | 6 | 1 |
| Sturnus unicolor |  |  |  | -0.011 | 0.939 | [-0.303, 0.281] | [-0.518, 0.496] | 44 | 5 |  |  |  | 0.069 | 0.896 | [-0.967, 1.105] | [-1.676, 1.815] | 45 | 5 |
| Sturnus vulgaris |  |  |  | 0.029 | 0.843 | [-0.259, 0.317] | [-0.476, 0.534] | 92 | 6 |  |  |  | 0.279 | 0.590 | [-0.742, 1.300] | [-1.457, 2.016] | 84 | 6 |
| Tachycineta bicolor |  |  |  | 0.092 | 0.576 | [-0.233, 0.418] | [-0.434, 0.619] | 9 | 2 |  |  |  | 0.204 | 0.716 | [-0.899, 1.308] | [-1.582, 1.991] | 13 | 2 |
| Heterogeneity | 1965.64 | <0.001 | 0.050 |  |  |  |  |  |  | 1101.06 | <0.001 | 0.085 |  |  |  |  |  |  |
| Experimental Design | | | | | | | | | | | | | | | | | | |
| Non-aromatic vs. Aromatic |  |  |  | -0.051 | 0.340 | [-0.156, 0.054] | [-0.404, 0.302] | 132 | 17 |  |  |  | -0.207 | 0.463 | [-0.761, 0.347] | [-1.952, 1.538] | 140 | 17 |
| No added material vs. Aromatic |  |  |  | 0.149 | **0.005** | [ 0.044, 0.254] | [-0.204, 0.502] | 85 | 11 |  |  |  | 0.843 | **0.003** | [ 0.294, 1.392] | [-0.900, 2.587] | 86 | 11 |
| No added material vs. Non-aromatic |  |  |  | -0.268 | **<0.001** | [-0.407, -0.129] | [-0.632, 0.096] | 14 | 3 |  |  |  | -0.543 | 0.157 | [-1.298, 0.211] | [-2.362, 1.275] | 11 | 3 |
| Heterogeneity | 2219.47 | <0.001 | 0.324 |  |  |  |  |  |  | 1083.45 | <0.001 | 0.279 |  |  |  |  |  |  |
| Parasite Type | | | | | | | | | | | | | | | | | | |
| Arthropod |  |  |  | 0.013 | 0.898 | [-0.186, 0.212] | [-0.780, 0.806] | 56 | 13 |  |  |  | 0.144 | 0.292 | [-0.126, 0.414] | [-1.107, 1.395] | 59 | 13 |
| Micro-organism |  |  |  | -0.041 | 0.720 | [-0.268, 0.186] | [-0.842, 0.760] | 26 | 6 |  |  |  | -0.025 | 0.890 | [-0.385, 0.335] | [-1.299, 1.248] | 27 | 6 |
| Heterogeneity | 759.70 | <0.001 | 0.004 |  |  |  |  |  |  | 318.88 | <0.001 | 0.016 |  |  |  |  |  |  |
| Time of Green Nest Material Addition | | | | | | | | | | | | | | | | | | |
| After egg hatching |  |  |  | 0.028 | 0.425 | [-0.040, 0.096] | [-0.281, 0.336] | 52 | 5 |  |  |  | 0.267 | 0.073 | [-0.025, 0.559] | [-0.776, 1.310] | 57 | 5 |
| Before egg hatching |  |  |  | -0.002 | 0.946 | [-0.051, 0.048] | [-0.307, 0.303] | 91 | 9 |  |  |  | 0.061 | 0.531 | [-0.130, 0.251] | [-0.959, 1.080] | 91 | 9 |
| Continously through nesting phase |  |  |  | 0.027 | 0.261 | [-0.020, 0.073] | [-0.278, 0.331] | 104 | 12 |  |  |  | 0.302 | **0.011** | [ 0.069, 0.535] | [-0.726, 1.330] | 105 | 12 |
| Heterogeneity | 2340.41 | <0.001 | 0.008 |  |  |  |  |  |  | 1111.62 | <0.001 | 0.045 |  |  |  |  |  |  |
| Trait Type Category | | | | | | | | | | | | | | | | | | |
| Behaviour |  |  |  | 0.032 | 0.764 | [-0.180, 0.245] | [-0.340, 0.405] | 8 | 2 |  |  |  | 0.153 | 0.574 | [-0.382, 0.688] | [-0.993, 1.299] | 8 | 2 |
| Morphology |  |  |  | 0.030 | 0.173 | [-0.013, 0.074] | [-0.278, 0.339] | 62 | 15 |  |  |  | 0.310 | **0.002** | [ 0.112, 0.509] | [-0.723, 1.343] | 65 | 15 |
| Parasitic and Pathogen Related |  |  |  | -0.052 | 0.148 | [-0.122, 0.019] | [-0.365, 0.261] | 86 | 16 |  |  |  | 0.112 | 0.242 | [-0.076, 0.299] | [-0.919, 1.143] | 90 | 16 |
| Phenology |  |  |  | 0.002 | 0.976 | [-0.157, 0.162] | [-0.342, 0.347] | 4 | 3 |  |  |  | 0.081 | 0.779 | [-0.484, 0.645] | [-1.080, 1.241] | 4 | 3 |
| Physiology |  |  |  | 0.038 | 0.288 | [-0.032, 0.107] | [-0.276, 0.351] | 31 | 9 |  |  |  | 0.157 | 0.288 | [-0.133, 0.448] | [-0.897, 1.212] | 23 | 9 |
| Reproduction |  |  |  | 0.008 | 0.763 | [-0.046, 0.063] | [-0.302, 0.319] | 56 | 16 |  |  |  | 0.153 | 0.109 | [-0.034, 0.340] | [-0.878, 1.184] | 63 | 19 |
| Heterogeneity | 2244.98 | <0.001 | 0.055 |  |  |  |  |  |  | 1080.79 | <0.001 | 0.024 |  |  |  |  |  |  |