|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Model** | **Fixed Effects** | **DIC** | **Percent Heterogeneity** | | | **Phylogenetic Signal** |
| **Study** | **Species** | **Total** |
| Mixed without the Phylogeny | Pigment Class, Vertebrate or Invertebrate, Sex, Plasticity | -168.3898 | 0.169793 | 0.183677 | 0.35347 | 0.272759 |
| Mixed | Pigment Class, Vertebrate or Invertebrate, Sex, Plasticity | -182.2326 | 0.269361 | 0.614505 | 0.883866 | 0.5503327 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Posterior Mean** | **Lower 95% CI** | **Upper 95% CI** | **pMCMC** |
| Intercept | 0.27314 | -0.15456 | 0.71858 | 0.226 |
| Eumelanin | 0.11840 | -0.05627 | 0.28893 | 0.171 |
| Pheomelanin | 0.05717 | -0.18334 | 0.30560 | 0.642 |
| **Unknown** | **0.41694** | **0.13685** | **0.74891** | **0.018** |
| Vertebrates | -0.10697 | -0.56453 | 0.31942 | 0.603 |
| Females | -0.16732 | -0.42735 | 0.06138 | 0.196 |
| Males | -0.10210 | -0.30223 | 0.10108 | 0.332 |
| Plastic | 0.06515 | -0.10563 | 0.21659 | 0.438 |