Supplementary file 1a.

|  |  |  |
| --- | --- | --- |
| Model Name | Model structure | elpd\_diff |
| M1 | Area-specific , and | 0 |
| M4 | Area-specific and , common | -9.8 |
| M2 | Area-specific , common and | -112 |
| M3 | Area-specific and , common | -152 |
| M7 | Area-specific , common and | -158 |
| M6 | Area-specific , common and | -175 |
| M5\* | Area-specific , common and | -1338 |
| M8\* | Common , and | -2155 |

\* Models did not converge

Supplementary file 1b. Comparison of allometric growth models with common or unique -parameter (exponent in the allometric growth model), ordered by difference in expected log pointwise density (elpd) from the best model.

|  |  |  |
| --- | --- | --- |
| Model Name | Model structure | elpd\_diff |
| M1 | Intercept () varying across individuals within cohorts, fixed, area-specific slope ( | 0 |
| M2 | Intercept () varying across individuals within cohorts, “fixed” common slope ( | -1.9 |