**S4 Table. Unstandardized parameter estimates with 95% confidence interval of the biometric bivariate growth curve model**

|  |  |  |  |
| --- | --- | --- | --- |
| Biometric component | Parameter1 | Unstandardized estimate | 95% Confidence interval |
| Genetic |  |  |  |
|  | a11 | 0.268 | (0.211 – 0.303) |
|  | a21 | 0.352 | (0.324 – 0.406) |
|  | a31 | -0.011 | (-0.030 – -0.002) |
|  | a41 | -0.014 | (-0.033 – -0.012) |
|  | a22 | -0.181 | (-0.150 – -0.100) |
|  | a32 | 0.000 | (0.000 – 0.000) |
|  | a42 | 0.000 | (0.000 – 0.000) |
|  | a33 | 0.037 | (0.024 – 0.048) |
|  | a43 | 0.021 | (0.007 – 0.043) |
|  | a44 | 0.000 | (0.000 – 0.000) |
| Shared environment |  |  |  |
|  | c11 | 0.153 | (0.148 – 0.227) |
|  | c21 | 0.068 | (-0.032 – 0.186) |
|  | c31 | -0.029 | (-0.047 – -0.017) |
|  | c41 | -0.017 | (-0.034 – 0.007) |
|  | c22 | 0.053 | (-0.047 – 0.114) |
|  | c32 | -0.007 | (-0.018 – -0.003) |
|  | c42 | -0.022 | (-0.020 – -0.004) |
|  | c33 | -0.014 | (-0.028 – 0.000) |
|  | c43 | -0.020 | (-0.031 – -0.010) |
|  | c44 | 0.000 | (0.000 – 0.000) |
| Nonshared environment |  |  |  |
|  | e11 | 0.128 | (0.110 – 0.173) |
|  | e21 | 0.137 | (0.097 – 0.177) |
|  | e31 | -0.012 | (-0.018 – -0.005) |
|  | e41 | -0.005 | (-0.024 – 0.011) |
|  | e22 | -0.110 | (-0.128 – -0.007) |
|  | e32 | 0.001 | (-0.021 – 0.020) |
|  | e42 | 0.021 | (0.000 – 0.031) |
|  | e33 | -0.023 | (-0.025 – -0.006) |
|  | e43 | -0.034 | (-0.038 – -0.031) |
|  | e44 | 0.000 | (0.000 – 0.000) |

1 Naming scheme of the parameters: The letter refers to the biometric component, the first number refers to the destination of an arrow, and the last number to the origin of an arrow. For example, a31 indicate a link from the 1st genetic component to the 3rd latent variable (here, PA’s slope).