|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table 6. The correlations between the components of DNAm GrimAge estimator (adjusted for age) and DNAm GrimAge acceleration (Acc) as well as physical activity indices among young adult (*n* = 570) and older individual twins (*n* = 470) | | | | | | | | |
|  | Correlation coefficients and their 95% CI a | | | | | | | |
|  | DNAm GrimAge Acc | | Sport index | | Leisure index | | Work index | |
| **Young adult twins** |  |  |  |  |  |  |  |  |
| DNAm ADM | **0.24** | **0.14, 0.33** | **-0.11** | **-0.22, -0.01** | -0.01 | -0.11, 0.10 | 0.02 | -0.08, 0.12 |
| DNAm B2M | **0.33** | **0.24, 0.42** | -0.09 | -0.20, 0.02 | **-0.12** | **-0.22, -0.02** | **0.08** | **0.00, 0.16** |
| DNAm cystatin-C | **0.49** | **0.41, 0.56** | -0.04 | -0.15, 0.08 | **0.15** | **0.05, 0.24** | 0.05 | -0.04, 0.14 |
| DNAm GDF15 | **0.46** | **0.38, 0.55** | **-0.12** | **-0.23, -0.01** | 0.03 | -0.07, 0.13 | 0.08 | -0.03, 0.19 |
| DNAm PAI-1 | **0.34** | **0.25, 0.42** | **-0.12** | **-0.22, -0.02** | 0.02 | -0.07, 0.11 | 0.06 | -0.03, 0.16 |
| DNAm TIMP-1 | **0.46** | **0.40, 0.53** | **-0.13** | **-0.23, -0.02** | -0.01 | -0.10, 0.09 | -0.03 | -0.14, 0.09 |
| DNAm leptin | -0.09 | -0.19, 0.01 | **-0.14** | **-0.25, -0.03** | **-0.09** | **-0.18, 0.00** | -0.03 | -0.13, 0.08 |
| DNAm PACKYRS | **0.83** | **0.80, 0.87** | **-0.20** | **-0.29, -0.11** | 0.00 | -0.10, 0.11 | **0.30** | **0.21, 0.39** |
|  |  |  |  |  |  |  |  |  |
| **Older twins** |  |  |  |  |  |  |  |  |
| DNAm ADM | **0.23** | **0.14, 0.32** | -0.03 | -0.14, 0.08 | 0.04 | -0.07, 0.15 | -0.04 | -0.16, 0.08 |
| DNAm B2M | **0.39** | **0.30, 0.49** | -0.09 | -0.20, 0.01 | **-0.11** | **-0.20, -0.03** | 0.01 | -0.09, 0.11 |
| DNAm cystatin-C | **0.50** | **0.42, 0.58** | **-0.14** | **-0.25, -0.02** | **-0.12** | **-0.24, -0.01** | 0.04 | -0.07, 0.15 |
| DNAm GDF15 | **0.51** | **0.38, 0.64** | -0.03 | -0.15, 0.09 | -0.08 | -0.20, 0.05 | 0.11 | -0.02, 0.24 |
| DNAm PAI-1 | **0.52** | **0.46, 0.59** | **-0.19** | **-0.30, -0.07** | **-0.13** | **-0.26, -0.01** | 0.02 | -0.11, 0.16 |
| DNAm TIMP-1 | **0.56** | **0.49, 0.64** | **-0.15** | **-0.27, -0.02** | -0.10 | -0.23, 0.03 | 0.05 | -0.06, 0.17 |
| DNAm leptin | **-0.21** | **-0.32, -0.10** | 0.03 | -0.08, 0.15 | **0.18** | **0.07, 0.29** | -0.11 | -0.23, 0.01 |
| DNAm PACKYRS | **0.89** | **0.86, 0.92** | **-0.16** | **-0.28, -0.04** | **-0.17** | **-0.26, -0.08** | **0.11** | **0.01, 0.21** |
| CI, confidence interval; ADM, adrenomedullin; B2M, beta-2-microglobulin; GDF15, growth differentiation factor 15; PAI-1, plasminogen activator inhibitor 1; TIMP-1, tissue inhibitor metalloproteinases 1; PACKYRS, smoking pack-years.  a CIs were corrected for nested sampling. | | | | | | | | |