**Table S1a.** Parameter selection and model specifications for *model 1a*.

|  |  |
| --- | --- |
| ***model 1a*** | *prediction of* Cognitive Perceptual *schizotypy* |
| **step 1 (*F*(1,613) = 25.87, *p* = 4.9×10-7, *R²* = 0.040, adjusted *R²* = 0.039)** |
| *included regressors* |
|  | coefficient (se) | *t* | *p* |  |
| intercept | 0.391 (0.268) | 1.46 | 0.145 |  |
| age | 0.018 (0.004) | 4.31 | 5.1×10-7 |  |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | 0.055 | 1.39 | 0.165 | 0.056 |
| rs1344706 × sex | 0.096 | 2.44 | 0.015 | 0.098 |
| rs1006737 × sex | 0.033 | 0.84 | 0.402 | 0.034 |
| rs1344706 | 0.061 | 1.55 | 0.122 | 0.062 |
| rs1006737 | 0.020 | 0.50 | 0.619 | 0.020 |
| MDS component1 | 0.015 | 0.38 | 0.703 | 0.015 |
| MDS component2 | 0.038 | 0.95 | 0.342 | 0.038 |
| MDS component3 | -0.022 | -0.55 | 0.585 | -0.022 |
| **step 2 (*F*(2,612) = 16.0, *p* = 1.7×10-7, *R²* = 0.050, adjusted *R²* = 0.047), final model** |
| *included regressors* |
|  | coefficient (se) | *t* | *p* | *padj* |
| intercept | 0.391 (0.268) | 1.46 | 0.145 |  |
| age | 0.018 (0.004) | 4.31 | 5.1×10-7 | **2.53×10-6** |
| rs1344706 × sex | 0.089 (0.037) | 2.44 | 0.015 | **0.033** |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | 0.027 | 0.64 | 0.520 | 0.026 |
| rs1006737 × sex | 0.030 | 0.76 | 0.449 | 0.031 |
| rs1344706 | -0.146 | -1.56 | 0.118 | -0.063 |
| rs1006737 | 0.023 | 0.59 | 0.555 | 0.024 |
| MDS component1 | 0.015 | 0.37 | 0.713 | 0.015 |
| MDS component2 | 0.034 | 0.87 | 0.385 | 0.035 |
| MDS component3 | -0.022 | -0.57 | 0.572 | -0.023 |

*In bold adjusted p-values after Bonferroni-Holm correction for all parameters of models 1a-1c; SE = standard error.*

**Table S1b.** Parameter selection and model specifications for *model 1b*.

|  |  |
| --- | --- |
| ***model 1b*** | *prediction of* Interpersonal *schizotypy* |
| **step 1 (*F*(1,613) = 7.31, *p* = 0.007, *R²* = 0.012, adjusted *R²* = 0.010)** |
| *included regressors* |
|  | coefficient (se) | *t* | *p* |  |
| intercept | 1.885 (0.091) | 20.61 | 4.13×10-72 |  |
| rs1006737 × sex | -0.159 (0.059) | -2.70 | 0.007 |  |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | -0.063 | -1.50 | 0.133 | -0.061 |
| age | 0.081 | 2.02 | 0.044 | 0.081 |
| rs1344706 × sex | -0.025 | -0.63 | 0.531 | -0.025 |
| rs1344706 | -0.001 | -0.01 | 0.990 | -0.001 |
| rs1006737 | -0.028 | -0.25 | 0.805 | -0.010 |
| MDS component1 | 0.051 | 1.26 | 0.207 | 0.051 |
| MDS component2 | 0.029 | 0.71 | 0.478 | 0.029 |
| MDS component3 | 0.023 | 0.58 | 0.563 | 0.023 |
| **step 2 (*F*(2,612) = 5.71, *p* = 0.003, *R²* = 0.018, adjusted *R²* = 0.015), final model** |
| *included regressors* |
|  | coefficient (se) | *t* | *p* | *padj* |
| intercept | 1.511 (0.206) | 7.33 | 7.5×10-13 |  |
| rs1006737 × sex | -0.150 (0.059) | -2.56 | 0.011 | **0.044** |
| age | 0.011 (0.006) | 2.02 | 0.044 | **0.046** |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | -0.067 | -1.59 | 0.113 | -0.064 |
| rs1344706 × sex | -0.026 | -0.66 | 0.512 | -0.027 |
| rs1344706 | 0.000 | -0.01 | 0.996 | 0.000 |
| rs1006737 | -0.025 | -0.22 | 0.824 | -0.009 |
| MDS component1 | 0.059 | 1.46 | 0.146 | 0.059 |
| MDS component2 | 0.027 | 0.67 | 0.502 | 0.027 |
| MDS component3 | 0.025 | 0.62 | 0.535 | 0.025 |

*In bold adjusted p-values after Bonferroni-Holm correction for all parameters of models 1a-1c; SE = standard error.*

**Table S1c.** Parameter selection and model specifications for *model 1c*.

|  |  |
| --- | --- |
| ***model 1c*** | *prediction of* Disorganised *schizotypy* |
| **step 1 (*F*(1,613) = 13.85, *p* = 2.2×10-4, *R²* = 0.022, adjusted *R²* = 0.021)****final model** |
| *included regressors* |
|  | coefficient (se) | *t* | *p* | *padj* |
| intercept | 1.433 (0.178) | 8.07 | 3.73×10-15 |  |
| sex | -0.390 (0.150) | -3.72 | 2.16×10-4 | **0.001** |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| age | -0.076 | -1.92 | 0.056 | -0.077 |
| rs1344706 × sex | 0.038 | 0.91 | 0.364 | 0.037 |
| rs1006737 × sex | -0.043 | -1.03 | 0.302 | -0.042 |
| rs1344706 | 0.029 | 0.72 | 0.475 | 0.029 |
| rs1006737 | -0.055 | -1.38 | 0.169 | -0.056 |
| MDS component1 | 0.031 | 0.78 | 0.434 | 0.032 |
| MDS component2 | 0.028 | 0.70 | 0.484 | 0.028 |
| MDS component3 | 0.010 | 0.26 | 0.798 | 0.010 |

*In bold adjusted p-values after Bonferroni-Holm correction for all parameters of models 1a-1c; SE = standard error.*

**Table S2.** Parameter selection and model specification for *model 2*.

|  |  |
| --- | --- |
| ***model 2*** | *prediction of d2 performance* |
| **step 1 (*F*(1,613) = 131.01, *p* = 1.26×10-27, *R²* = 0.176, adjusted *R²* = 0.175)** |
| *included regressors* |
|  | coefficient (se) | *t* | *p* |  |
| intercept | 237.871 (4.345) | 54.75 | 3.25×10-238 |  |
| age | -1.418 (0.124) | -11.45 | 1.26×10-27 |  |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | 0.065 | 1.77 | 0.077 | 0.071 |
| rs1344706 × sex | -0.053 | -1.44 | 0.150 | -0.058 |
| rs1006737 × sex | 0.003 | 0.10 | 0.925 | 0.004 |
| rs1344706 | -0.090 | -2.47 | 0.014 | -0.099 |
| rs1006737 | -0.014 | -0.37 | 0.712 | -0.015 |
| MDS component1 | 0.006 | 0.17 | 0.867 | 0.007 |
| MDS component2 | -0.031 | -0.85 | 0.394 | -0.034 |
| MDS component3 | 0.005 | 0.13 | 0.899 | 0.005 |
| *Cognitive Perceptual* szt | -0.120 | -3.22 | 0.001 | -0.129 |
| *Interpersonal* szt | -0.034 | -0.94 | 0.349 | -0.038 |
| *Disorganised* szt | -0.086 | -2.34 | 0.020 | -0.094 |
| **step 2 (*F*(2,612) = 71.70, *p* = 1.05 ×10-28, *R²* = 0.190, adjusted *R²* = 0.187)** |
| *included regressors* |
|  | coefficient (se) | *t* | *p* |  |
| intercept | 239.150 (4.330) | 55.23 | 6.08×10-240 |  |
| age | -1.337 (0.126) | -10.65 | 2.07×10-24 |  |
| *Cognitive Perceptual* szt | -4.405 (1.367) | -3.22 | 0.001 |  |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | 0.072 | 1.97 | 0.049 | 0.079 |
| rs1344706×sex | -0.042 | -1.14 | 0.255 | -0.046 |
| rs1006737×sex | 0.007 | 0.21 | 0.838 | 0.008 |
| rs1344706 | -0.083 | -2.29 | 0.022 | -0.092 |
| rs1006737 | -0.011 | -0.31 | 0.759 | -0.012 |
| MDS component1 | 0.008 | 0.22 | 0.827 | 0.009 |
| MDS component2 | -0.027 | -0.74 | 0.462 | -0.030 |
| MDS component3 | 0.002 | 0.06 | 0.955 | 0.002 |
| *Interpersonal* szt | -0.017 | -0.47 | 0.639 | -0.019 |
| *Disorganised* szt | -0.057 | -1.51 | 0.131 | -0.061 |
| **step 3 (*F*(3,611) = 49.88, *p* = 7.58×10-29, *R²* = 0.197, adjusted *R²* = 0.193)** |
| *included regressors* |
|  | coefficient (se) | *t* | *P* |  |
| intercept | 243.191 (4.662) | 52.16 | 3.15×10-227 |  |
| age | -1.340 (0.125) | -10.71 | 1.17×10-24 |  |
| *Cognitive Perceptual* szt | -4.210 (1.365) | -3.09 | 0.002 |  |
| rs1344706 | -5.038 (2.20) | -2.29 | 0.022 |  |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | 0.072 | 1.98 | 0.048 | 0.080 |
| rs1344706 × sex | 0.192 | 2.23 | 0.026 | 0.090 |
| rs1006737 × sex | 0.002 | 0.07 | 0.947 | 0.003 |
| rs1006737 | -0.016 | -0.44 | 0.658 | -0.018 |
| MDS component1 | 0.009 | 0.25 | 0.799 | 0.010 |
| MDS component2 | -0.025 | -0.69 | 0.489 | -0.028 |
| MDS component3 | 0.004 | 0.11 | 0.910 | 0.005 |
| *Interpersonal* szt | -0.018 | -0.48 | 0.632 | -0.019 |
| *Disorganised* szt | -0.056 | -1.49 | 0.136 | -0.060 |
| **step 4 (*F*(4,610) = 38.89, *p* = 5.13×10-29, *R²* = 0.203, adjusted *R²* = 0.198), final model** |
| *included regressors* |
|  | coefficient (se) | *T* | *p* | *padj* |
| intercept | 243.395 (4.648) | 52.37 | 7.11×10-228 |  |
| age | -1.342 (0.125) | -10.76 | 7.82×10-25 | **3.14×10-24** |
| *Cognitive Perceptual* szt | -4.509 (1.367) | -3.30 | 0.001 | **0.003** |
| rs1344706 | -15.551 (5.208) | -2.99 | 0.003 | **0.006** |
| intercept | 6.553 (2.944) | 2.23 | 0.026 | **0.026** |
| *excluded regressors* |
|  | coefficient | *t* | *p* | partial correlation |
| sex | 0.025 | 0.46 | 0.649 | 0.018 |
| rs1006737 × sex | -0.015 | -0.40 | 0.686 | -0.016 |
| rs1006737 | -0.019 | -0.52 | 0.606 | -0.021 |
| MDS component1 | 0.011 | 0.31 | 0.760 | 0.012 |
| MDS component2 | -0.028 | -0.77 | 0.442 | -0.031 |
| MDS component3 | 0.007 | 0.18 | 0.854 | 0.007 |
| *Interpersonal* szt | -0.010 | -0.26 | 0.796 | -0.011 |
| *Disorganised* szt | -0.047 | -1.23 | 0.219 | -0.050 |

*In bold adjusted p-values after Bonferroni-Holm correction for all parameters of the model; SE = standard error, szt = schizotypy.*

**Table S3.** Model specifications for moderated mediation *models 3a* and *3b*.

|  |  |
| --- | --- |
| ***model 3a*** | **(F(3,611) = 48.78, *p* < 1×10-100, *R²* = 0.197)** |
| *prediction of d2 performance via* Cognitive Perceptual *schizotypy* |
|  | coefficient (se) | *t* | *p* | *padj* |
| intercept | 243.191 (4.656) | 52.23 | < 1×10-100 |  |
|  rs1344706 | -5.038 (2.180) | -2.31 | 0.021  | **0.032** |
| *Cognitive Perceptual* schizotypy | -4.210 (1.431) | -2.94 | 0.003 | **0.013** |
| age | -1.340 (0.124) | -10.80 | 1×10-9  | **6×10-9** |
|  |
| conditional indirect effects **rs1344706 > *Cognitive Perceptual* schizotypy > d2 performance** |
|  | effect (se) | BootLLCI | BootULCI |
| sex = male | 0.300 (0.417) | -0.53 | 1.17 |
| sex = female | -0.890 (0.460) | -1.93 | -0.16 |
| contrast | -1.190 (0.653) | -2.64 | -0.12 |
|  |
|  |
| ***model 3b*** | **(F(5,609) = 6.90, *p* = 2.4×10-6, *R²* = 0.071)** |  |
| *prediction of* Cognitive Perceptual *schizotypy via d2 performance* |  |
|  | coefficient (se) | *t* | *p* | *padj* |
| intercept | 1.297 (0.383) | 3.38 | 7.6×10-4 |  |
|  rs1344706 | -0.398 (0.206) | -1.94 | 0.053 |  |
| sex | -0.090 (0.133) | -0.68 | 0.497 |  |
| rs1344706 × sex | 0.297 (0.123) | 2.41 | 0.016 | **0.032** |
| d2 performance | -0.004 (0.001) | -3.03 | 0.003 | **0.014** |
| age | 0.013 (0.004) | 2.91 | 0.004 | **0.014** |
|  |  |  |  |  |
| indirect effect**rs1344706 > d2 performance > *Cognitive Perceptual* schizotypy** |  |
|  | effect (se) | BootLLCI | BootULCI |  |
| d2 performance | 0.023 (0.011) | 0.004 | 0.049 |  |

*In bold adjusted p-values after Bonferroni-Holm correction for all parameters of both models; SE = standard error; BootLLCI = bootstrapped confidence interval lower limit; BootULCI = bootstrapped confidence interval upper limit.*

**Table S4.** Model specifications for moderated mediation *models 4a* and *4b*.

|  |  |
| --- | --- |
| ***model 4a*** | **(F(3,611) = 42.79, *p* < 1×10-100, *R²* = 0.177)** |
| *prediction of d2 performance via* Interpersonal *schizotypy* |
|  | coefficient (se) | *t* | *p* | *padj* |
| intercept | 239.875 (4.906) | 48.89 | < 1×10-100 |  |
|  rs1006737 | -1.120 (2.387) | -0.47 | 0.639  |  |
| *Interpersonal* schizotypy | -0.890 (0.887)  | -1.00 | 0.316 |  |
| age | -1.411 (0.125) | -11.26 | < 1×10-10  |  |
|  |
| conditional indirect effects **rs1006737 > *Interpersonal* schizotypy > d2 performance** |
|  | effect (se) | BootLLCI | BootULCI |
| sex = male | 0.353 (0.417) | -0.32 | 1.33 |
| sex = female | 0.149 (0.219) | -0.20 | 0.69 |
| contrast | -0.204 (0.348) | -1.10 | 0.30 |
|  |
|  |
| ***model 4b*** | **(F(5,609) = 3.57, *p* = 0.003, *R²* = 0.028)** |  |
| *prediction of* Interpersonal *schizotypy via d2 performance* |  |
|  | coefficient (se) | *t* | *p* | *padj* |
| intercept | 2.543 (0.578) | 4.402 | 1.2×10-5 |  |
|  rs1006737 | -0.627 (0.374) | -1.68 | 0.094 |  |
| sex | -0.429 (0.200) | -2.14 | 0.033 |  |
| rs1006737× sex | 0.229 (0.217) | 1.05 | 0.293 |  |
| d2 performance | -0.001 (0.002) | -0.84 | 0.402 |  |
| age | 0.010 (0.006) | 1.52 | 0.129 |  |
|  |  |  |  |  |
| indirect effect**rs1006737 > d2 performance > *Interpersonal* schizotypy** |  |
|  | effect (se) | BootLLCI | BootULCI |  |
| d2 performance | 0.013 (0.006) | -0.010 | 0.015 |  |

*In bold adjusted p-values after Bonferroni-Holm correction for all parameters of both models; SE = standard error; BootLLCI = bootstrapped confidence interval lower limit; BootULCI = bootstrapped confidence interval upper limit.*