

Erratum to: Genetic and Environmental Contributions to the Relationships Between Brain Structure and Average Lifetime Cigarette Use

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The original publication of the article has errors that need to be corrected as follows:

1. In the Results section, the second and third sentences of the second paragraph of the “Associations between subcortical volume and cigarette pack–years” should read as: “These relationships were detected for left accumbens ($r_P = -0.03$, $p = 0.01$; $cov_E = -0.10$, $p =$

0.01) and left pallidum ($r_P = -0.08$, $p = 0.01$; $cov_E = -0.07$, $p = 0.03$). Unique environmental factors involved in higher levels of cigarette pack-years were also associated with decreased volumes for these regions, as indicated by the moderate environmental correlations between smoking and left accumbens ($r_E = -0.24$, 95 % CI = -0.4 ; -0.05) as well as left pallidum ($r_E = -0.21$, 95 % CI = -0.38 ; -0.03).”

2. The Table 1 was incorrect in the original publication and it has been corrected in this erratum:

The online version of the original article can be found under doi:[10.1007/s10519-014-9704-4](https://doi.org/10.1007/s10519-014-9704-4).

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Table 1 Summary of bivariate results for relationships between volumetric measures and cigarette pack-years with significant genetic covariances/correlations

Region of interest	Standardized genetic/environmental covariance estimates			Genetic/environmental correlation estimates						
	covA	95 % CI	covE	95 % CI	rA	95 % CI	rE	95 % CI	rP	95 % CI
R-Lingual Gyrus	-0.17	(-0.29 ; -0.05)	-0.01	(-0.09; 0.07)	-0.40	(-1 ; -0.11)	-0.02	(-0.2; 0.16)	-0.18	(-0.28 ; -0.07)
R-Caudal Anterior Cingulate Cortex	-0.15	(-0.28 ; -0.02)	0.05	(-0.05; 0.13)	-0.44	(-1 ; -0.07)	0.09	(-0.09; 0.27)	-0.11	(-0.21 ; 0)
L-Cuneus	-0.13	(-0.25 ; -0.01)	0.06	(-0.01; 0.14)	-0.34	(-1 ; -0.04)	0.14	(-0.03; 0.31)	-0.07	(-0.18; 0.04)
L-Cerebellum Cortex	-0.13	(-0.24 ; -0.01)	0.01	(-0.05; 0.08)	-0.28	(-1 ; -0.02)	0.04	(-0.15; 0.22)	-0.11	(-0.22 ; 0)
R-Pars Opercularis	-0.13	(-0.25 ; 0)	0.02	(-0.06; 0.1)	-0.36	(-1 ; -0.01)	0.04	(-0.14; 0.22)	-0.11	(-0.21 ; 0)
R-Precuneus	-0.12	(-0.24 ; 0)	-0.02	(-0.09; 0.05)	-0.31	(-1 ; 0)	-0.05	(-0.23; 0.13)	-0.14	(-0.25 ; -0.03)
L-Posterior Cingulate Cortex	0	(-0.13; 0.12)	-0.14	(-0.23 ; -0.06)	-0.01	(-1; 1)	-0.31	(-0.46 ; -0.14)	-0.14	(-0.25 ; -0.04)
R-Rostral Middle Frontal Gyrus	0.02	(-0.11; 0.14)	-0.12	(-0.21 ; -0.05)	0.04	(-1; 1)	-0.29	(-0.44 ; -0.11)	-0.11	(-0.21 ; 0)
L-Pars Orbitalis	0.02	(-0.11; 0.14)	-0.14	(-0.24 ; -0.04)	0.08	(-1; 1)	-0.24	(-0.39 ; -0.08)	-0.12	(-0.22 ; -0.02)
R-Inferior Temporal Gyrus	0.02	(-0.11; 0.15)	-0.11	(-0.2 ; -0.02)	0.06	(-1; 1)	-0.23	(-0.39 ; -0.05)	-0.090	(-0.19; 0.02)
L-Accumbens	0.06	(-0.06; 0.19)	-0.10	(-0.18 ; -0.02)	0.16	(-0.16; 1)	-0.24	(-0.4 ; -0.05)	-0.03	(-0.14; 0.08)
L-Rostral Middle Frontal Gyrus	-0.01	(-0.14; 0.12)	-0.09	(-0.17 ; -0.01)	-0.02	(-1; 1)	-0.21	(-0.37 ; -0.03)	-0.10	(-0.2; 0.01)
L-Pallidum	-0.01	(-0.13; 0.11)	-0.07	(-0.15 ; -0.01)	-0.02	(-1; 1)	-0.21	(-0.38 ; -0.03)	-0.08	(-0.19; 0.03)
L-Middle Temporal Gyrus	0.01	(-0.11; 0.13)	-0.10	(-0.19 ; -0.01)	0.04	(-1; 1)	-0.19	(-0.35 ; -0.02)	-0.08	(-0.19; 0.02)

Bolded parameter estimates are significant at $p < 0.05$