

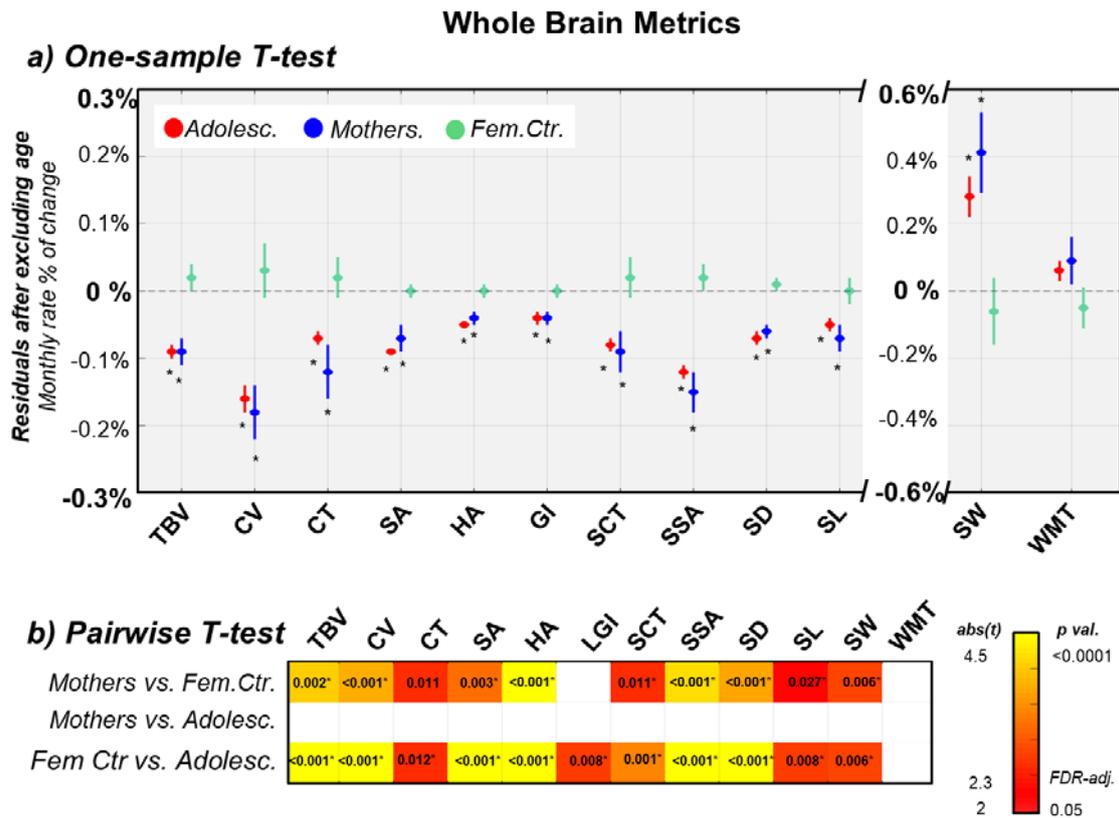
Analyses excluding the effects of age within each group

Statistical approach

Main analyses were repeated excluding the effect of age within each group. We fitted a General Linear Model (GLM) per group including age as a regressor (mean centered within each group) and tested if the intercept was significantly different from zero. Then, for each between-group pairwise comparison, a GLM was fitted including group as a regressor of interest and two age covariates, each one containing the within-group mean centered age.

Results

As indicated in the figure below, the p-values after excluding the effect of within-group age were comparable to those obtained in the main analyses (Figure II of the manuscript).



Supplementary Figure. Whole brain longitudinal changes for each morphological measure after excluding the effect of the within-group age. **a)** One-sample T-test analysis of the residual of monthly rate percentage of change (y-axis). Results have different colors for each sample group (adolescents, mothers and female controls). Circles indicate the means and dispersion bars indicate the standard errors of the means. Asterisks indicate the one-sample T-test comparisons that survive the FDR adjusted threshold at $q < 0.05$, which corresponds to an uncorrected p-value of 0.0136

and an absolute t-value (abs(t) of 2.66). Crosses indicate the one-sample T-test comparisons that survive the uncorrected threshold of p-value<0.05 but not the FDR-adjusted threshold of q<0.05. **b)** Two-sample T-test pairwise comparisons: 1) mothers vs. female controls; 2) mothers vs. adolescents; and 3) adolescents vs. female controls. Reported p-values refer to the uncorrected p-values. Results have different colors for different thresholds, with p-value<0.05 uncorrected as the most lenient threshold. Asterisk indicate the two-sample T-test comparisons that survive the FDR adjusted threshold at q<0.05, which corresponds to an uncorrected p-value of 0.0267 and an absolute t-value (abs(t)) of 2.30. Abbreviations: Adolesc: Adolescent sample; Fem.Ctr: Female control sample; TBV: total brain volume; CV: gray matter cortical volume; CT: cortical thickness; SA: surface area; HA: hull area; LGI: local gyrification index; SCT: sulcal CT; SSA: sulcal SA; SD: sulcal depth; SL: sulcal length; SW: sulcal width and WMT: gyral white matter thickness.