Figure 2- Supplementary Figure 1- source data 1. Effect of training on GMV and WMV in trained mice and the effect of time in non-trained control mice. Whole-brain within-group analysis presenting the significant number of voxels (*P*FDR corr. < 0.01 and < 0.001) together with the change in volume (mm3).

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|  Changes in GMV |
|  | Trained mice (*n* = 39) | Non-trained controls (*n* = 16) |
| increase | decrease | increase | decrease |
|  ***P*FDR corr < 0.01** |
| Linear | - | - | 29327 (15.02) | - |
| Asymptotic | 2832 (1.45) | 139233 (71.29) | - | - |
| Quadratic | - | 39493 (20.22) | - | - |
|  ***P*FDR corr < 0.001** |
| Linear | - | - | 14316 (7.33) | - |
| Asymptotic | 1643 (0.84) | 97106 (46.72) | - | - |
| Quadratic | - | 15477 (7.91) | - | - |
|  |
|  Changes in WMV |
|  | Trained mice (*n* = 39) | Non-trained controls (*n* = 16) |
| increase | decrease | increase | decrease |
|  ***P*FDR corr < 0.01** |
| Linear | - | - | - | - |
| Asymptotic | 26453 (13.54) | 2510 (1.29) | - | - |
| Quadratic | 91 (0.05) | - | - | - |
|  ***P*FDR corr < 0.001** |
| Linear | - | - | - | - |
| Asymptotic | 16590 (6.96) | 1196 (0.61) | - | - |
| Quadratic | - | - | - | - |