**Supplementary Information**

**Table S1 |** Successful identification rate for each of 20 fiber tracts in HC and BGS

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| --- | --- | --- | --- |
| Tract | Total subjects or raw samples (N0) | No. of subjects showing successful tract identification (N1) | Ratio (N1/N0) |
| HC | BGS | HC | BGS | HC (%) | BGS (%) |
| AF\_L | 46 | 46 | 46 | 46 | 100 | 100 |
| AF\_R | 46 | 46 | 45 | 45 | 97.83 | 97.83 |
| CC\_L | 46 | 46 | 46 | 42 | 100 | 91.30 |
| CC\_R | 46 | 46 | 46 | 42 | 100 | 91.30 |
| Forceps major | 46 | 46 | 46 | 42 | 100 | 91.30 |
| Forceps minor | 46 | 46 | 46 | 46 | 100 | 100 |
| CH\_L | 46 | 46 | 43 | 40 | 93.48 | 86.96 |
| CH\_R | 46 | 46 | 45 | 41 | 97.83 | 89.13 |
| CST\_L | 46 | 46 | 46 | 46 | 100 | 100 |
| CST\_R | 46 | 46 | 46 | 46 | 100 | 100 |
| IFOF\_L | 46 | 46 | 46 | 46 | 100 | 100 |
| IFOF\_R | 46 | 46 | 46 | 46 | 100 | 100 |
| ILF\_L | 46 | 46 | 46 | 46 | 100 | 100 |
| ILF\_R | 46 | 46 | 46 | 46 | 100 | 100 |
| SLF\_L | 46 | 46 | 46 | 46 | 100 | 100 |
| SLF\_R | 46 | 46 | 46 | 46 | 100 | 100 |
| TR\_L | 46 | 46 | 46 | 46 | 100 | 100 |
| TR\_R | 46 | 46 | 46 | 46 | 100 | 100 |
| UF\_L | 46 | 46 | 46 | 46 | 100 | 100 |
| UF\_R | 46 | 46 | 46 | 46 | 100 | 100 |

BGS, basal ganglia stroke; HC, health control; AF\_L, left arcuate fasciculus; AF\_R, right arcuate fasciculus; CST\_L, left corticospinal tract; CST\_R, right corticospinal tract; CC\_L, left cingulum cingulate; CC\_R, right cingulum cingulate; CH\_L, left cingulum hippocampus; CH\_R, right cingulum hippocampus; IFOF\_L, left inferior fronto-occipital fasciculus; IFOF\_R, right inferior fronto-occipital fasciculus; ILF\_L, left inferior longitudinal fasciculus; ILF\_R, right inferior longitudinal fasciculus; SLF\_L, left superior longitudinal fasciculus; SLF\_R, right superior longitudinal fasciculus; TR\_L, left thalamic radiation; TR\_R, right thalamic radiation; UF\_L, left uncinate fasciculus; UF\_R, right uncinate fasciculus.