**Supplementary File 1**

|  |  |
| --- | --- |
| sulcal depth | myelin map |
| --simval=1,2,2,2  --sigma\_in=4,4,2,1  --sigma\_ref=2,2,1,1  --lambda=0,0.1,0.2,0.3  --it=50,3,3,3  --opt=AFFINE,DISCRETE,DISCRETE,DISCRETE  --CPgrid=0,2,3,4  --SGgrid=0,4,5,6  --datagrid=4,4,5,6  --IN  levels=4 | --simval=2,2,2  --sigma\_in=10,5,3  --sigma\_ref=10,5,3  --lambda=0.1,0.1,0.3  --it=10,10,10  --opt=DISCRETE,DISCRETE,DISCRETE  --CPgrid=2,3,4  --SGgrid=4,5,6  --datagrid=4,5,6  levels=3  (--trans: sulcal depth registration) |

Supplementary File 1 – Supplementary Table related to Methods. MSM configuration parameters for the registration of individual subject myelin maps prior to averaging to create a species myelin map. The parameters were kept constant for the three species and for both hemispheres.