

## Supplementary Material

Diffusion Tensor Imaging White Matter Atlas for the Domestic Feline Brain

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Frontiers in Neuroanatomy

A reference table containing connectivity metrics for each cortical region including the region number, label and lobar parcellation and their corresponding betweenness centrality, degree of connectivity, clustering coefficient and strength.

| Regions | Regions Labels | Lobe Parcellation | Betweenness Centrality | Degree | Participation Coefficient | Clustering Coefficient |
|---------|----------------|-------------------|------------------------|--------|---------------------------|------------------------|
| 1       | HippB          | Subcortical       | 0                      | 150    | 0.64                      | 0.88                   |
| 2       | ICB            | Subcortical       | 998                    | 146    | 0.45                      | 0.24                   |
| 3       | SCB            | Subcortical       | 0                      | 144    | 0.57                      | 0.40                   |
| 4       | LGNB           | Subcortical       | 0                      | 149    | 0.66                      | 0.48                   |
| 5       | MGBB           | Subcortical       | 0                      | 149    | 0.67                      | 0.62                   |
| 6       | CNB            | Subcortical       | 0                      | 150    | 0.75                      | 1.14                   |
| 7       | PAGB           | Subcortical       | 104                    | 133    | 0.37                      | 0.29                   |
| 8       | CbmL           | Cerebellum        | 7392                   | 146    | 0.17                      | 0.11                   |
| 9       | CbmR           | Cerebellum        | 7482                   | 146    | 0.33                      | 0.12                   |
| 10      | 17L            | Occipital         | 14                     | 150    | 0.47                      | 0.42                   |
| 11      | 17R            | Occipital         | 0                      | 150    | 0.54                      | 0.49                   |
| 12      | 18L            | Occipital         | 0                      | 150    | 0.57                      | 0.64                   |
| 13      | 18R            | Occipital         | 0                      | 150    | 0.64                      | 0.54                   |
| 14      | 19L            | Occipital         | 0                      | 150    | 0.61                      | 0.66                   |
| 15      | 19R            | Occipital         | 0                      | 150    | 0.60                      | 0.69                   |
| 16      | 20aL           | Occipital         | 2626                   | 85     | 0.10                      | 0.11                   |
| 17      | 20aR           | Occipital         | 2362                   | 129    | 0.49                      | 0.15                   |
| 18      | 20bL           | Occipital         | 2498                   | 129    | 0.11                      | 0.18                   |
| 19      | 20bR           | Occipital         | 0                      | 145    | 0.57                      | 0.29                   |
| 20      | 21aL           | Occipital         | 0                      | 139    | 0.53                      | 0.17                   |
| 21      | 21aR           | Occipital         | 0                      | 143    | 0.51                      | 0.27                   |
| 22      | 21bL           | Occipital         | 266                    | 145    | 0.31                      | 0.34                   |
| 23      | 21bR           | Occipital         | 0                      | 138    | 0.54                      | 0.25                   |
| 24      | 7aL            | Occipital         | 0                      | 144    | 0.63                      | 0.45                   |
| 25      | 7aR            | Occipital         | 2                      | 142    | 0.67                      | 0.57                   |
| 26      | 7mL            | Occipital         | 1688                   | 105    | 0.71                      | 0.09                   |
| 27      | 7mR            | Occipital         | 406                    | 95     | 0.66                      | 0.08                   |
| 28      | 7pL            | Occipital         | 508                    | 140    | 0.59                      | 0.21                   |
| 29      | 7pR            | Occipital         | 0                      | 142    | 0.50                      | 0.48                   |
| 30      | ALLSL          | Occipital         | 0                      | 146    | 0.59                      | 0.38                   |
| 31      | ALLSR          | Occipital         | 0                      | 148    | 0.48                      | 0.38                   |
| 32      | AMLSL          | Occipital         | 2                      | 137    | 0.61                      | 0.16                   |
| 33      | AMLSR          | Occipital         | 34                     | 135    | 0.36                      | 0.23                   |
| 34      | PLLSL          | Occipital         | 0                      | 143    | 0.53                      | 0.34                   |
| 35      | PLLSR          | Occipital         | 0                      | 148    | 0.50                      | 0.41                   |
| 36      | PMLSL          | Occipital         | 0                      | 144    | 0.50                      | 0.34                   |
| 37      | PMLSR          | Occipital         | 0                      | 144    | 0.62                      | 0.31                   |
| 38      | DLSL           | Occipital         | 56                     | 123    | 0.37                      | 0.15                   |
| 39      | DLSR           | Occipital         | 0                      | 139    | 0.52                      | 0.31                   |
| 40      | VLSL           | Occipital         | 0                      | 131    | 0.40                      | 0.16                   |
| 41      | VLSR           | Occipital         | 600                    | 98     | 0.58                      | 0.08                   |
| 42      | CVAL           | Occipital         | 0                      | 150    | 0.56                      | 0.44                   |
| 43      | CVAR           | Occipital         | 0                      | 147    | 0.54                      | 0.58                   |
| 44      | SVAL           | Occipital         | 10                     | 134    | 0.69                      | 0.15                   |
| 45      | SVAR           | Occipital         | 0                      | 144    | 0.64                      | 0.29                   |
| 46      | PSL            | Occipital         | 338                    | 85     | 0.16                      | 0.11                   |

|    |       |             |      |     |      |      |
|----|-------|-------------|------|-----|------|------|
| 47 | PSR   | Occipital   | 1270 | 88  | 0.25 | 0.13 |
| 48 | RSL   | Subcortical | 0    | 150 | 0.65 | 0.87 |
| 49 | RSR   | Subcortical | 0    | 150 | 0.70 | 0.79 |
| 50 | AEVL  | Occipital   | 0    | 145 | 0.46 | 0.29 |
| 51 | AEVR  | Occipital   | 286  | 141 | 0.48 | 0.26 |
| 52 | A1L   | Temporal    | 634  | 135 | 0.51 | 0.18 |
| 53 | A1R   | Temporal    | 8    | 144 | 0.38 | 0.29 |
| 54 | A2L   | Temporal    | 312  | 147 | 0.52 | 0.48 |
| 55 | A2R   | Temporal    | 0    | 149 | 0.52 | 0.57 |
| 56 | AAFL  | Temporal    | 1848 | 140 | 0.52 | 0.29 |
| 57 | AAFR  | Temporal    | 888  | 145 | 0.60 | 0.44 |
| 58 | PAFL  | Temporal    | 30   | 137 | 0.30 | 0.23 |
| 59 | PAFR  | Temporal    | 26   | 146 | 0.39 | 0.37 |
| 60 | vPAFL | Temporal    | 700  | 92  | 0.23 | 0.13 |
| 61 | vPAFR | Temporal    | 500  | 109 | 0.16 | 0.09 |
| 62 | DZL   | Temporal    | 0    | 138 | 0.56 | 0.20 |
| 63 | DZR   | Temporal    | 88   | 133 | 0.35 | 0.37 |
| 64 | INL   | Temporal    | 0    | 148 | 0.54 | 0.50 |
| 65 | INR   | Temporal    | 0    | 149 | 0.46 | 0.50 |
| 66 | TEL   | Temporal    | 0    | 148 | 0.53 | 0.37 |
| 67 | TER   | Temporal    | 328  | 148 | 0.52 | 0.50 |
| 68 | FAESL | Temporal    | 0    | 143 | 0.38 | 0.45 |
| 69 | FAESR | Temporal    | 0    | 147 | 0.54 | 0.45 |
| 70 | VAFL  | Temporal    | 1478 | 56  | 0.19 | 0.11 |
| 71 | VAFR  | Temporal    | 2460 | 78  | 0.17 | 0.12 |
| 72 | dPEL  | Temporal    | 28   | 138 | 0.46 | 0.26 |
| 73 | dPER  | Temporal    | 0    | 147 | 0.48 | 0.38 |
| 74 | iPEL  | Temporal    | 40   | 130 | 0.20 | 0.31 |
| 75 | iPER  | Temporal    | 930  | 144 | 0.34 | 0.33 |
| 76 | pPEL  | Temporal    | 8    | 113 | 0.48 | 0.13 |
| 77 | pPER  | Temporal    | 0    | 142 | 0.51 | 0.37 |
| 78 | vPEL  | Temporal    | 2098 | 116 | 0.16 | 0.19 |
| 79 | vPER  | Temporal    | 1038 | 119 | 0.34 | 0.17 |
| 80 | 1L    | Parietal    | 0    | 146 | 0.60 | 0.70 |
| 81 | 1R    | Parietal    | 80   | 146 | 0.46 | 0.67 |
| 82 | 2L    | Parietal    | 0    | 144 | 0.35 | 0.54 |
| 83 | 2R    | Parietal    | 0    | 141 | 0.31 | 0.64 |
| 84 | 3aL   | Parietal    | 2332 | 136 | 0.63 | 0.31 |
| 85 | 3aR   | Parietal    | 20   | 141 | 0.59 | 0.44 |
| 86 | 3bL   | Parietal    | 0    | 141 | 0.60 | 0.36 |
| 87 | 3bR   | Parietal    | 0    | 141 | 0.52 | 0.56 |
| 88 | S2L   | Parietal    | 0    | 146 | 0.46 | 0.57 |
| 89 | S2R   | Parietal    | 20   | 142 | 0.34 | 0.85 |
| 90 | S2mL  | Parietal    | 0    | 144 | 0.56 | 0.37 |
| 91 | S2mR  | Parietal    | 20   | 145 | 0.65 | 0.38 |
| 92 | S3L   | Parietal    | 0    | 148 | 0.62 | 0.47 |
| 93 | S3R   | Parietal    | 30   | 144 | 0.62 | 0.43 |
| 94 | S4L   | Parietal    | 0    | 140 | 0.34 | 0.47 |

|     |          |             |      |     |      |      |
|-----|----------|-------------|------|-----|------|------|
| 95  | S4R      | Parietal    | 446  | 139 | 0.48 | 0.35 |
| 96  | S5L      | Parietal    | 0    | 145 | 0.61 | 0.42 |
| 97  | S5R      | Parietal    | 0    | 147 | 0.63 | 0.52 |
| 98  | 5aLL     | Parietal    | 242  | 135 | 0.48 | 0.24 |
| 99  | 5aLR     | Parietal    | 0    | 138 | 0.48 | 0.37 |
| 100 | 5amL     | Parietal    | 0    | 143 | 0.62 | 0.55 |
| 101 | 5amR     | Parietal    | 0    | 139 | 0.65 | 0.53 |
| 102 | 5bLL     | Parietal    | 0    | 143 | 0.56 | 0.37 |
| 103 | 5bLR     | Parietal    | 0    | 139 | 0.60 | 0.39 |
| 104 | 5bmL     | Parietal    | 0    | 143 | 0.66 | 0.38 |
| 105 | 5bmR     | Parietal    | 12   | 142 | 0.63 | 0.56 |
| 106 | 5mL      | Parietal    | 0    | 139 | 0.71 | 0.44 |
| 107 | 5mR      | Parietal    | 6    | 137 | 0.71 | 0.33 |
| 108 | PFdLL    | Frontal     | 0    | 150 | 0.60 | 0.91 |
| 109 | PFdLR    | Frontal     | 0    | 147 | 0.47 | 1.14 |
| 110 | PFdmL    | Frontal     | 44   | 127 | 0.43 | 0.22 |
| 111 | PFdmR    | Frontal     | 742  | 127 | 0.51 | 0.16 |
| 112 | PFvL     | Frontal     | 0    | 149 | 0.63 | 0.63 |
| 113 | PFvR     | Frontal     | 226  | 148 | 0.53 | 0.63 |
| 114 | 4DeltaL  | Frontal     | 0    | 138 | 0.56 | 0.30 |
| 115 | 4DeltaR  | Frontal     | 1568 | 123 | 0.41 | 0.14 |
| 116 | 4fuL     | Frontal     | 212  | 149 | 0.65 | 0.55 |
| 117 | 4fuR     | Frontal     | 0    | 148 | 0.55 | 0.74 |
| 118 | 4GammaL  | Frontal     | 294  | 125 | 0.60 | 0.16 |
| 119 | 4GammaR  | Frontal     | 16   | 121 | 0.38 | 0.21 |
| 120 | 4sfuL    | Frontal     | 512  | 140 | 0.65 | 0.24 |
| 121 | 4sfuR    | Frontal     | 412  | 137 | 0.59 | 0.37 |
| 122 | 6aAlphaL | Frontal     | 0    | 146 | 0.55 | 0.41 |
| 123 | 6aAlphaR | Frontal     | 0    | 133 | 0.42 | 0.26 |
| 124 | 6aBetaL  | Frontal     | 0    | 147 | 0.51 | 0.41 |
| 125 | 6aBetaR  | Frontal     | 226  | 143 | 0.52 | 0.40 |
| 126 | 6aGammaL | Frontal     | 0    | 148 | 0.56 | 0.51 |
| 127 | 6aGammaR | Frontal     | 34   | 143 | 0.41 | 0.49 |
| 128 | 6iffuL   | Frontal     | 3036 | 134 | 0.54 | 0.23 |
| 129 | 6iffuR   | Frontal     | 572  | 122 | 0.40 | 0.23 |
| 130 | PLL      | Frontal     | 68   | 148 | 0.61 | 0.37 |
| 131 | PLR      | Frontal     | 116  | 149 | 0.51 | 0.41 |
| 132 | GIL      | Subcortical | 124  | 123 | 0.31 | 0.25 |
| 133 | GIR      | Subcortical | 224  | 119 | 0.32 | 0.21 |
| 134 | DIL      | Subcortical | 40   | 115 | 0.20 | 0.21 |
| 135 | DIR      | Subcortical | 272  | 116 | 0.23 | 0.28 |
| 136 | AldL     | Subcortical | 36   | 149 | 0.65 | 0.42 |
| 137 | AldR     | Subcortical | 202  | 148 | 0.52 | 0.53 |
| 138 | AlvL     | Subcortical | 0    | 150 | 0.61 | 0.51 |
| 139 | AlvR     | Subcortical | 0    | 149 | 0.55 | 0.45 |
| 140 | PpL      | Frontal     | 0    | 145 | 0.60 | 0.39 |
| 141 | PpR      | Frontal     | 20   | 148 | 0.47 | 0.41 |
| 142 | CGaL     | Subcortical | 338  | 118 | 0.67 | 0.15 |

|     |      |             |      |     |      |      |
|-----|------|-------------|------|-----|------|------|
| 143 | CGaR | Subcortical | 344  | 117 | 0.68 | 0.15 |
| 144 | CGpL | Subcortical | 0    | 148 | 0.72 | 0.41 |
| 145 | CGpR | Subcortical | 140  | 146 | 0.65 | 0.40 |
| 146 | 36L  | Subcortical | 1560 | 125 | 0.20 | 0.26 |
| 147 | 36R  | Subcortical | 1604 | 141 | 0.27 | 0.30 |
| 148 | MZL  | Parietal    | 0    | 140 | 0.65 | 0.18 |
| 149 | MZR  | Parietal    | 0    | 147 | 0.66 | 0.50 |
| 150 | GL   | Frontal     | 762  | 131 | 0.39 | 0.28 |
| 151 | GR   | Frontal     | 0    | 130 | 0.26 | 0.25 |

