

Atlas	#ROIs 1 mm <sup>3</sup>	#ROIs 2 mm <sup>3</sup>	#ROIs 4 mm <sup>3</sup>	Anatomical Labels
AAL [3]	116	116	116	✓
AICHA [12]	384	384	384	✓
Brodmann [4]	41	41	41	✓
CAPRSC [13]	333	333	333	✗
CPAC200 [5]	200	200	200	✗
Desikan [14]	70	70	70	✓
DesikanKlein [14]	96	93	93	✓
Destrieux [15]	75	75	75	✓
DKT [16]	83	83	83	✓
Glasser [1]	180	180	180	✓
Hammersmith [17]	83	83	83	✓
HOC [2]	48	48	48	✓
HOS [2]	21	21	21	✓
HOSL [2]	21	21	21	✓
Hemispheric	2	2	2	✓
JHU [7]	48	48	48	✓
Juelich [18]	103	103	103	✓
MICCAI [19]	136	134	133	✗
Princeton [8]	49	49	43	✓
Slab907 [11]	907	907	907	✗
Slab1068 [11]	1068	1068	1068	✗
Talairach [20]	1105	959	744	✓
Tissue	3	3	3	✓
Schaefer-200 [6]	200	200	200	✓
Schaefer-300 [6]	300	300	300	✓
Schaefer-400 [6]	400	400	400	✓
Schaefer-1000 [6]	1000	1000	1000	✓
Yeo-7 [9]	7	7	7	✓
Yeo-7-Liberal [9]	7	7	7	✓
Yeo-17 [9]	17	17	17	✓
Yeo-17-Liberal [9]	17	17	17	✓
DS00071 [10]	70	68	67	✗
DS00096 [10]	95	93	88	✗
DS00108 [10]	107	107	102	✗
DS00140 [10]	139	133	127	✗
DS00195 [10]	194	188	180	✗
DS00278 [10]	277	272	254	✗
DS00350 [10]	349	340	316	✗
DS00446 [10]	445	430	407	✗
DS00583 [10]	582	578	553	✗
DS00833 [10]	832	808	773	✗
DS01216 [10]	1215	1177	1108	✗
DS01876 [10]	1875	1821	1729	✗
DS03231 [10]	3230	3145	2926	✗
DS06481 [10]	6480	6272	5903	✗
DS16784 [10]	16783	16281	15251	✗

Table 1: This table contains the atlases included in Neuroparc and the number of ROIs per voxel size, showing the number of ROIs lost during resampling and registration. Which atlases have anatomical labeling metadata is also noted.

## References

- [1] Glasser, M. F. et al. A multi-modal parcellation of human cerebral cortex. *Nature* **536**, 171-178, (2016).
- [2] Markis, N. et al. Decreased volume of left and total anterior insular lobule in schizophrenia. *Schizophrenia Research* **83**, 155-171, <https://doi.org/10.1016/j.schres.2005.11.020> (2006).
- [3] Tzourio-Mazoyer, N. et al. Automated anatomical labeling of activations in spm using a macroscopic anatomical parcellation of the mri single-subject brain. *Neuroimage* **15**, 273-289, <https://doi.org/10.1006/nimg.2001.0978> (2002).
- [4] Brodmann, K. Vergleichende Lokalisationslehre der Großhirnrinde : in ihren Prinzipien dargestellt auf Grund des Zellenbaues. (1909).
- [5] Giavasis, S. et al. Source code for: Fcp-indi/c-pac: Cpac version 1.0.0 beta, *Zenodo* <https://doi.org/10.5281/zenodo.164638> (2016).
- [6] Schaefer, A. et al. Local-global parcellation of the human cerebral cortex from intrinsic functional connectivity MRI. *Cerebral Cortex* **28**, 3095-3114 (2018).
- [7] Hua, K., et al., Tract probability maps in stereotaxic spaces; analyses of white matter anatomy and tract-specific quantification. *Neuroimage* **39**, 336-347, (2007).
- [8] Wang, L., Mruczek, R. E. B., Arcaro, M. J., & Kastner, S. Probabilistic maps of visual topography in human cortex. *Cerebral Cortex* **25**, 3911-3931, (2015).
- [9] Yeo, B. T. T. et al. The organization of the human cerebral cortex estimated by intrinsic functional connectivity. *Journal of Neurophysiology* **106**, 1125-1165, (2011).
- [10] Mhembere, D. et al. Computing scalable multivariate local invariants of large (brain-) graphs. *2013 IEEE Global Conference on Signal and Information Processing* , 297-300, <https://doi.org/10.1109/GlobalSIP.2013.6736874> (2013).
- [11] Sripada, C. S., Kessler, D. & Angstadt, M. Lag in maturation of the brain's intrinsic functional architecture in attention-deficit/hyperactivity disorder. *Proceedings of the National Academy of Sciences* **111**, 14259-14264, <https://doi.org/10.1073/pnas.1407787111> (2014).
- [12] Joliot, M. et al. AICHA: An atlas of intrinsic connectivity of homotopic areas. *Neurosci Methods*. **254**, 46-59, (2015)
- [13] Gordon, EM. et al. Generation and evaluation of a cortical area parcellation from resting-state correlations. *Cereb Cortex*. **26**, 288-303, (2014)
- [14] Desikan, R. S. et al. An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. *Neuroimage* **31**, 968-980, <https://doi.org/10.1016/j.neuroimage.2006.01.021> (2006).
- [15] Fischl, B. et al. Automatically parcellating the human cerebral cortex. *Cereb Cortex*. **14**, 11-22, (2004)
- [16] Kevin, A. & Tourville, J. 101 labeled brain images and a consistent human cortical labeling protocol. *Front. Neurosci.* **6**, 171, (2012)
- [17] Ioannis, S. et al. Automatic segmentation of brain MRIs of 2-year-olds into 83 regions of interest. *NeuroImage* **40**, 672-684, (2008)
- [18] Simon, B. et al. A new SPM toolbox for combining probabilistic cytoarchitectonic maps and functional imaging data. *NeuroImage* **25**, 1053-1119, (2005)
- [19] Landman, B. et al. MICCAI 2012 workshop on multi-atlas labeling. *CreateSpace* **2**, (2012)
- [20] Chau, W., & McIntosh, A. R. The talairach coordinates of a point in the MNI space: how to interpret it. *Neuroimage* **25**, 408-416, <https://doi.org/10.1016/j.neuroimage.2004.12.007> (2004).