

## Automated hippocampus labeling programs published in 2008

Percent union overlap (intersection/union) results\*

Method	intrarater	interrater	results	direct comparison
SPM5 (Unified Segmentation)  Firbank, et al. Human Brain Mapping 29: 1442-1449			57 (4) L 59 (3) R n=9	AIR (BET, different individual template): 46 (6)
BrainVISA  Chupin, et al. ISBI 2008			77±4 (69-88) n=16	Prob. Atlas (thresh=0.5): 64±6: (47-73)
BRAINS2 (ITK)  Powell, et al. NeuroImage 39: 238-247		72 (3) n=?	75 (3) L 72 (4) R n=5 (test) n=10 (train)	Prob. Atlas: 63 (8) L 62 (6) R
ACM (automated context model)  Morra, et al. NeuroImage 43(1): 49-68		74.9 (L) 74.3 (R)	75.4 L 71.9 R n=21 (7 control, 7 AD, 7 MCI)	
PBT (probabilistic boosting tree)  Tu, et al. IEEE Trans. Medical Imaging 27(4): 495-508			Results as <b>target overlap</b> *: 79 L / 69 R (appearance model) 69 L / 62 R (appearance + shape)	Freesurfer results as <b>target overlap</b> *: 66 L / 84 R
graph cuts optimization  van der Lijn, et al. NeuroImage 43: 708-720	76.2 (Δ2yrs)		74.2 (1.8) L (61.7-82.2) 76.1 (.8) R (70.4-80.3) n=20	Prob. Atlas: 70.6 L 72.1 R

\*target overlap where noted  
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