

Materials List for

Manual Segmentation of the Human Choroid Plexus Using Brain MRI

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Citation

Bannai, D., Cao, Y., Keshavan, M., Reuter, M., Lizano, P. Manual Segmentation of the Human Choroid Plexus Using Brain MRI. *J. Vis. Exp.* (202), e65341, doi:10.3791/65341 (2023).

Date Published

December 15, 2023

DOI

10.3791/65341

URL

jove.com/video/65341

Materials

Name	Company	Catalog Number	Comments
3D Slicer	3D Slicer	https://www.slicer.org/	A free, open source software for visualization, processing, segmentation, registration, and analysis of medical, biomedical, and other 3D images and meshes; and planning and navigating image-guided procedures.
FreeSurfer	FreeSurfer	https://surfer.nmr.mgh.harvard.edu/	An open source neuroimaging toolkit for processing, analyzing, and visualizing human brain MR images
ITK-SNAP	ITK-SNAP	http://www.itksnap.org/pmwiki/pmwiki.php	A free, open-source, multi-platform software application used to segment structures in 3D and 4D biomedical images.
Monai Package	Monai Consortium	https://docs.monai.io/en/stable/metrics.html	Use for Dice Coefficient and DeepMind average Surface Distance.
MRI scanner	GE	Discovery MR750	
Psych Package	R-Project	https://cran.r-project.org/web/packages/psych/index.html	A general purpose toolbox developed originally for personality, psychometric theory and experimental psychology.
R Software	R-Project	https://www.r-project.org/	R is a free software environment for statistical computing and graphics.
RStudio	Posit	https://posit.co/	An RStudio integrated development environment (IDE) is a set of tools built to help you be more productive with R and Python.
Windows or Apple OS Desktop or Laptop	Any company	n/a	Needed for running the software used in this protocol.