

Cell Centered Database

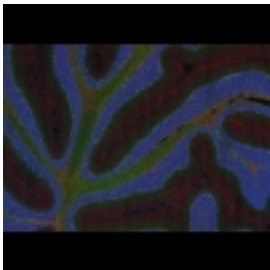
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Microscopy Product #:25 T071502

For the most updated information, please visit

<http://ccdb.ucsd.edu/CCDBWebSite/main?event=displaySum&mpid=25>

Image2D	Reconstruction	Segmentation
		

Project Information:

PROJECT_ID	P1188
PROJECT_NAME	Brain Maps
PROJECT_DESCRIPTION	Creation of high resolution large scale brain maps of protein expression
LEADER	Tom Deerinck
FUNDING_AGENCY	NIH
PROJECT_START_DATE	2002-08-01 00:00:00.0
PROJECT_END_DATE	
COLLABORATORS	James Bouwer and James Bouwer
PUBLICATION1	
PUBLICATION2	
PUBLICATION3	

Experiment Information -	
PURPOSE	high resolution protein labeling map of selected brain regions
TITLE	High resolution brain maps
EXPERIMENTER	Tom Deerinck
EXPERIMENT_NAME	
EXPERIMENT_DATE	2002-06-20 00:00:00.0

Subject Information -	
GROUP_BY	
SUBJECT_NAME	
FIXATION_METHOD_ID	
SCIENTIFIC_NAME	rattus norvegicus
SPECIES	rat
STRAIN	Sprague Dawley
AGE	2 months
AGECLASS	adult
ANIMAL_NAME	
LITTER_ID	
SEX	male
VENDOR	
WEIGHT	85 grams

Tissue -	
ANATOMIC_LOCATION	whole brain
MICROTOME	vibratome
ORIENTATION	sagittal
THICKNESS	80 um
TISSUE_PROD_STORAGE	
EXTERNAL_FILE_NAME	
TISSUE_GROUP_TYPE	

Microscopy Product Information -	
MICROSCOPY_PRODUCT_ID	25
IMAGE_BASENAME	T071502
CREATE_DATE	2002-08-05 00:00:00.0
INSTRUMENT	BioRad RTS 2000MP Multiphoton
MICROSCOPE_TYPE	multiphoton
PLANE_COUNT	
PRODUCT_TYPE	optical section series/mosaic
PURL	NA
SESSION_NAME	
TELESCIENCE_SRB	P1188/Experiment_15/Subject_15/Tissue_18/Microscopy_25
X_RESOLUTION	
Y_RESOLUTION	
XSIZE	512
YSIZE	480

Protocol:

triple labeling for neurofilament protein, GFAP and nuclei

Image Type -	

Image Type -	
OPTICAL_SECTION_SERIES	18
CUTTING_PLANE	transverse
OPTICAL_SECTION_SERIES_D ESC	optical section mosaic
OPTICAL_Z_RESOLUTION	1.5 um

Specimen Description -

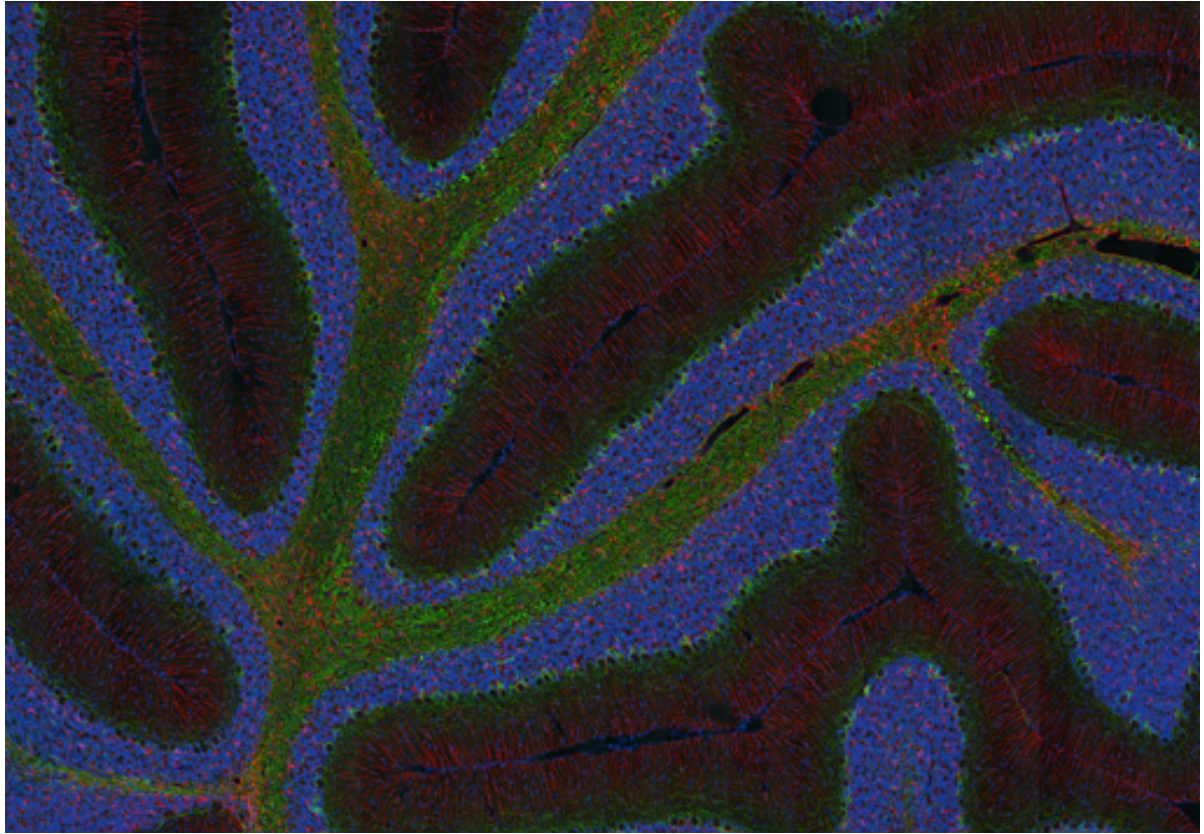
ANATOMICAL_DETAIL	25
ATLAS_COORD	, ,
CELL_TYPE	unspecified
ORGAN	brain
REGION	cerebellum
SYSTEM	central nervous system

Light Microscopy Product -

LMPRODUCT_ID	19
COVER_SLIP_THICKNESS	1 um
IMMERSION_MEDIUM	oil
LENS_MAGNIFICATION	40 x
MOUNTING_MEDIUM	gelvatol
NUMERICAL_APERTURE	1.3

Reconstruction

Reconstruction Image -



Reconstruction -	
RECONSTRUCTION3D_ID	25
ALIGNMENT_PROGRAM	IMOD
CROPPING_COORDINATE1	,
CROPPING_COORDINATE2	,
DECONVO_PROGRAM	no
RECON_DESC	mosaic reconstructed with 10% overlap; image normalization performed using ImageJ
RECON_PROGRAM	IMOD
RECON_TYPE	optical section series/mosaic
THUMBNAIL	P1188/T071502_vt.jpg
VOLUME_DIMENSION	8704, 6048, 9
VOLUME_NAME	LFI2/2-photonLFI2.jpg
VOXEL_SCALE	, , 1.5
RECONSTRUCTION_IMAGES_ID	25
RECON_IMAGE_DESC	montage of cerebellar cortex triple labeled for Hoescht stain (blue);neurofilament (green) and GFAP (red)
RECON_FILE_NAME	LFI2/LFI2_thumbnail.jpg
VOLUME_THUMBNAIL	P1188/T071502_vt.jpg

USER AGREEMENT

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USER NOTIFICATION

For large size image data, it will take several minutes to download, please be patient. Thanks!

ACKNOWLEDGEMENT

Data used from the CCDB should be appropriately referenced, including both the author of the data and the CCDB. If the data were from a published study, the reference is included in the database record. The following reference should be cited for the CCDB:

Martone, M. E., Gupta, A., Wong, M., Qian, X., Sosinsky, G., Ludaescher, B., and Ellisman, M. H. A cell centered database for electron tomographic data. J. Struct. Biology 138: 145-155, 2002.

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