

Cell Centered Database

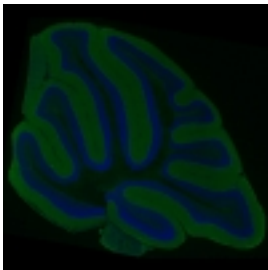
University of California, San Diego

Maryann Martone

Microscopy Product #:53 102003b

For the most updated information, please visit

<http://ccdb.ucsd.edu/CCDBWebSite/main?event=displaySum&mpid=53>

Image2D	Reconstruction	Segmentation
		

Project Information:

PROJECT_ID	P1187
PROJECT_NAME	Correlated Imaging Approaches and Multiscale Databases for Research in Parkinson's Disease
PROJECT_DESCRIPTION	characterization of a mouse model of human alpha synuclein overexpressor
LEADER	Diana Price
FUNDING_AGENCY	The Branfman Family Foundation
PROJECT_START_DATE	2002-09-01 00:00:00.0
PROJECT_END_DATE	2003-06-30 00:00:00.0
COLLABORATORS	M.H. Ellisman; M. Martone; G.A. Johnson; E. Masliah
PUBLICATION1	Price DL;Martone ME; Masliah MH; Ellisman MH (2003) High-resolution Large-Scale 3-D Mapping Studies of Alpha-Synuclein Immunoreactivity in Transgenic Mice Overexpressing Human Alpha-Synuclein. Society for Neuroscience Abstract.
PUBLICATION2	Price DL, Chow SK, MacLean NAB, Hakozaki H, Peltier S, Martone ME, Ellisman MH (2006) High-Resolution Large-Scale Mosaic Imaging using Multiphoton Microscopy to Characterize Transgenic Mouse Models of Human Neurological Disorders. Neuroinformatics. 2006;4(1):65-80.
PUBLICATION3	

Experiment Information -	
PURPOSE	to determine the distribution of alpha-synuclein immunolabeling in wildtype tissue
TITLE	Alpha-synuclein immunolabeling for large-scale mapping study
EXPERIMENTER	Diana Price

Experiment Information -	
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EXPERIMENT_NAME	
EXPERIMENT_DATE	2003-03-07 00:00:00.0

Subject Information -	
GROUP_BY	genetic manipulation
SUBJECT_NAME	Wildtype control
FIXATION_METHOD_ID	
SCIENTIFIC_NAME	mus musculus
SPECIES	mouse
STRAIN	C57BL/6 * DBA/2
AGE	291 days
AGECLASS	adult
ANIMAL_NAME	
LITTER_ID	
SEX	male
VENDOR	
WEIGHT	

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

Microscopy Product Information -	
MICROSCOPY_PRODUCT_ID	53
IMAGE_BASENAME	102003b
CREATE_DATE	
INSTRUMENT	Biorad RTS Multiphoton
MICROSCOPE_TYPE	multiphoton
PLANE_COUNT	
PRODUCT_TYPE	optical section series/mosaic
PURL	NA
SESSION_NAME	
TELESCIENCE_SRB	P1187/Experiment_18/Subject_34/Tissue_44/Microscopy_53
X_RESOLUTION	.27 pixels/um_B e U mUCuUC\ sSK8U SSK?SK?? ?SK8U Ea <@U* PU ?PawO
Y_RESOLUTION	.27 pixels/um r ?u >?Oa? 8u ?i `?f ?U ?u? U py?xy???? -q`8u ?i
XSIZE	512
YSIZE	480

Protocol:

N/A

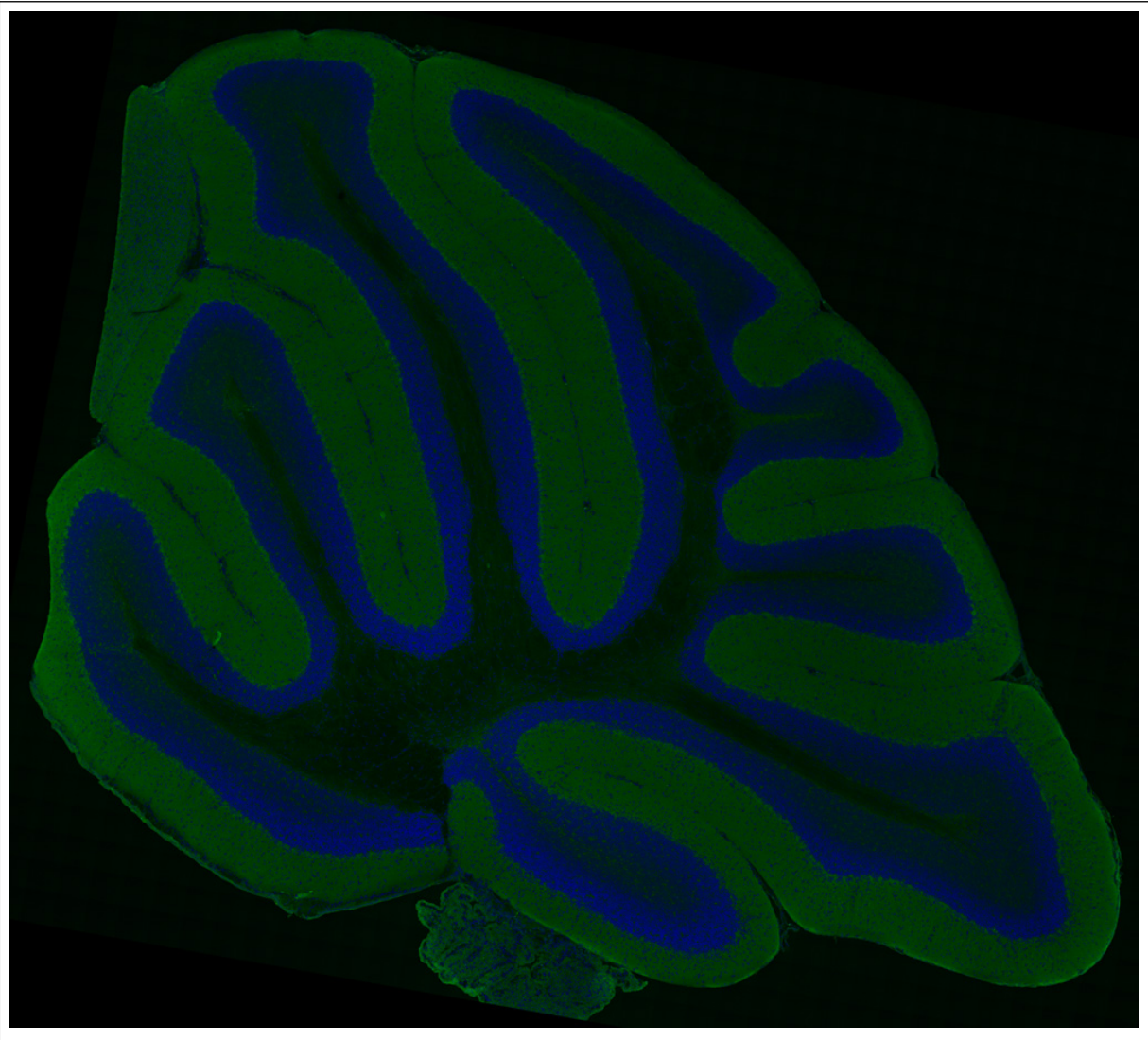
Image Type -	
OPTICAL_SECTION_SERIES	36
OPTICAL_Z_RESOLUTION	3 umj U ^ r ??O???WU ?? a?j <U oUNDy ?????UN?UN?? <U 'o WU ?? ?Paw*

Specimen Description -	
ANATOMICAL_DETAIL	53
ATLAS	Paxinos and Franklin
ATLAS_COORD	, ,
ORGAN	brain
REGION	cerebellum
SYSTEM	central nervous system

Light Microscopy Product -	
LMPRODUCT_ID	37
COVER_SLIP_THICKNESS	?Uaw(? AUawAU WyuwdU (? ? A Gaw?Paw? ?
IMMERSION_MEDIUM	oil
LENS	Nikon Plan Fluor
LENS_MAGNIFICATION	60 x eU \U u? Pg a?? kArq?p \U i awr Pg a?? U U U U <C?w 4awyyyy?U
MOUNTING_MEDIUM	gelvatol
NUMERICAL_APERTURE	1.4

Reconstruction

Reconstruction Image -



Reconstruction -	
RECONSTRUCTION3D_ID	53
ALIGNMENT_METHOD	semi-automatic
ALIGNMENT_PROGRAM	IMOD interface w/ ImageJ
BASENAME_ORIGFILE	NA
CROPPING_COORDINATE1	,
CROPPING_COORDINATE2	,
RECON_DATE	2003-10-23 00:00:00.0
RECON_DESC	Large scale brain mosaic through level of cerebellar vermis of a wild type mouse labeled for alpha
RECON_PROGRAM	IMOD
RECON_TYPE	optical section series/mosaic
THUMBNAIL	P1187/102003b_vt.jpg
VOLUME_DIMENSION	16445, 14780, 1
VOLUME_NAME	P1187_montages/102003b_wt_cb_montages/102003b_wt_cb_Bcorr.jpg
VOXEL_SCALE	.24, .24, 3
RECONSTRUCTION_IMAGES_ID	53
NEUROINFORMATICA_URL	http://ccdb-aims.ucsd.edu:8880/showMe.jsp?instGUID=8B3EDC52-967F-174F-2310-1F9D2D87C740
RECON_IMAGE_DESC	Large scale brain mosaic through level of cerebellar vermis of a wild type mouse labeled for alpha synuclein (green) and a nuclear stain (blue). Final montage is a projection through 5 z planes.
RECON_FILE_NAME	P1187_montages/102003b_wt_cb_montages/102003b_RGB_wt_cb_sm_e.jpg
VOLUME_THUMBNAIL	P1187/102003b_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.

In addition, the support for the Cell Centered Database should be included in the acknowledgement section of any publication: The Cell Centered Database is supported by NIH grants from NCRR RR04050, RR RR08605 and the Human Brain Project DA016602 from the National Institute on Drug Abuse, the National Institute of Biomedical Imaging and Bioengineering and the National Institute of Mental Health, and NSF grants supporting the National Partnership for Advanced Computational Infrastructure NSF-ASC 97-5249 and MCB-9728338.

Maryann Martone