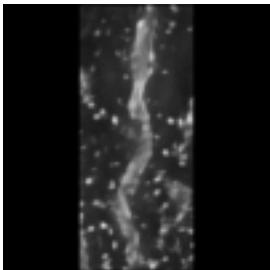# [Cell Centered Database](#)

University of California, San Diego

Maryann Martone

Microscopy Product #:15 pccor10_dc

For the most updated information, please visit
http://ccdb.ucsd.edu/CCDBWebSite/main?event=displaySum&mpid=15

Image2D	Reconstruction	Segmentation

Project Information:

PROJECT_ID	P1119
PROJECT_NAME	Correlated Microscopy of Dendritic Spines
PROJECT_DESCRIPTION	Measurements of spine parameters using light microscopy and electron tomography
LEADER	[Maryann Martone](#)
FUNDING_AGENCY	NIH
PROJECT_START_DATE	1992-01-01 00:00:00.0
PROJECT_END_DATE	
COLLABORATORS	Naoko Yamada; Gordun Arbuthnott; Cali Ingham; Stephen Young
PUBLICATION1	
PUBLICATION2	
PUBLICATION3	

Experiment Information -	
PURPOSE	how well dendritic spines can be detected and measured using LM
TITLE	spiny dendrite
EXPERIMENTER	Naoko Yamada
EXPERIMENT_NAME	
EXPERIMENT_DATE	

Subject Information -

GROUP_BY	
SUBJECT_NAME	
FIXATION_METHOD_ID	
SCIENTIFIC_NAME	rattus norvegicus
SPECIES	rat
STRAIN	Sprague Dawley
AGE	
AGECLASS	adult
ANIMAL_NAME	
LITTER_ID	
SEX	unspecified
VENDOR	
WEIGHT	

Tissue -

ANATOMIC_LOCATION	cerebellum
MICROTOME	ultramicrotome
ORIENTATION	sagittal
THICKNESS	2 um
TISSUE_PROD_STORAGE	
EXTERNAL_FILE_NAME	
TISSUE_GROUP_TYPE	

Microscopy Product Information -

MICROSCOPY_PRODUCT_ID	15
IMAGE_BASENAME	pccor10_dc
CREATE_DATE	2000-06-14 00:00:00.0
INSTRUMENT	BioRad MRC 1024 Confocal
MICROSCOPE_TYPE	transmitted light
PLANE_COUNT	
PRODUCT_TYPE	through focus series
PURL	NA
SESSION_NAME	correlated imaging of pccor10
TELESCIENCE_SRB	P1119/Experiment_10/Subject_10/Tissue_12/Microscopy_15
X_RESOLUTION	
Y_RESOLUTION	
XSIZE	1024
YSIZE	1024

Protocol:

N/A

Image Type -

THROUGH_FOCUS_SERIES_ID	1
ZSTEP	.1um
THROUGH_DESC	see image map

Specimen Description -

ANATOMICAL_DETAIL	15
ATLAS_COORD	, ,
CELL_TYPE	Purkinje neuron
MAP_LOCATION	pccor10_dc/pccor10_imagemap.gif
ORGAN	brain
REGION	cerebellum
STRUCTURE	spiny dendrite
SYSTEM	central nervous system

Light Microscopy Product -

LMPRODUCT_ID	12
IMMERSION_MEDIUM	oil
LENS_MAGNIFICATION	63 X
MOUNTING_MEDIUM	epoxy
NUMERICAL_APERTURE	1.4

Reconstruction

Reconstruction Image -
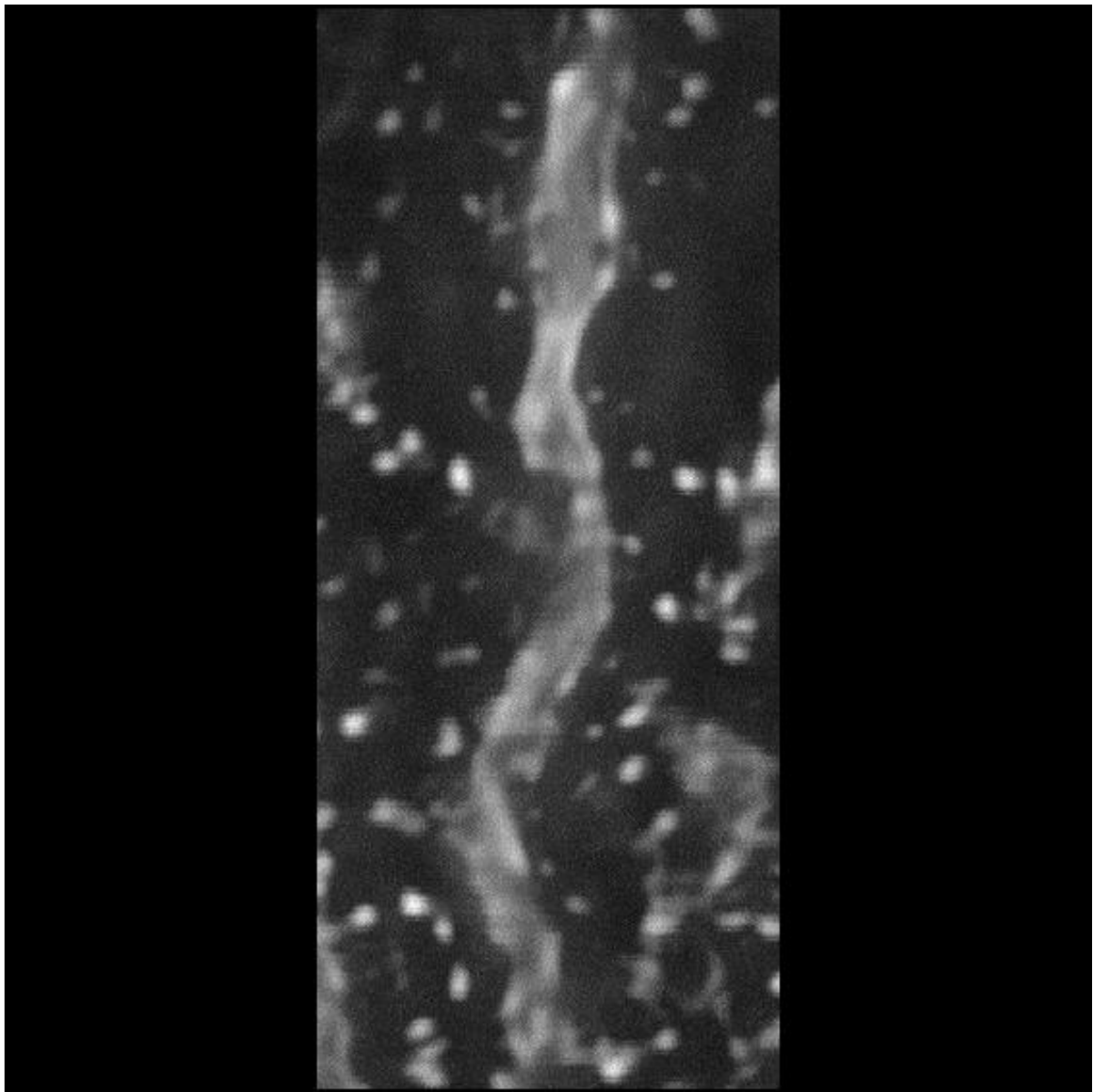
Reconstruction -	
RECONSTRUCTION3D_ID	15
BASENAME_ORIGFILE	single tilt
CORRELATED_VOLUME_NAME	pccor10/pccor10_vol.tar
CROPPING_COORDINATE1	,
CROPPING_COORDINATE2	,
DECONVO_ALGORITHM	Nearest Neighbor
DECONVO_ITERATORS	10
DECONVO_PROGRAM	Autoquant
IMAGE_MAP_FILE	pccor10_dc/pccor10_imagemap.jpg
RECON_DATE	2000-06-14 00:00:00.0
RECON_DESC	Zip file containing volume in Analyze 7.5 format, both .img and .hdr files
RECON_TYPE	through focus series
THUMBNAIL	P1119/pccor10_dc_vt.jpg
VOLUME_DIMENSION	244, 564, 65
VOLUME_NAME	pccor10_dc/pccor10_dc_vol.zip
VOXEL_SCALE	, ,
RECONSTRUCTION_IMAGES_ID	15
RECON_IMAGE_DESC	Maximum intensity projection through a computationally deblurred transmitted light series of a stained Purkinje cell dendrite from rat cerebellum. Through focus series was taken from a 2 um section prepared for electron microscopy
RECON_FILE_NAME	pccor10_dc/pccor10_max.jpg
VOLUME_THUMBNAIL	P1119/pccor10_dc_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 acknolwedgement 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