

Cell Centered Database

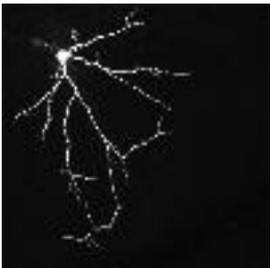
University of California, San Diego

Maryann Martone

Microscopy Product #:1132 PC5AZ

For the most updated information, please visit

<http://ccdb.ucsd.edu/CCDBWebSite/main?event=displaySum&mpid=1132>

| | | |
|---------|---|--------------|
| Image2D | Reconstruction | Segmentation |
| |  | |

Project Information:

| | |
|---------------------|---|
| PROJECT_ID | P1123 |
| PROJECT_NAME | CCDB rat test data |
| PROJECT_DESCRIPTION | Confocal images |
| LEADER | Maryann Martone |
| FUNDING_AGENCY | NIH |
| PROJECT_START_DATE | 2001-10-23 00:00:00.0 |
| PROJECT_END_DATE | |
| COLLABORATORS | Diana Price and Diana Price |
| PUBLICATION1 | |
| PUBLICATION2 | |
| PUBLICATION3 | |

| | |
|---------------------------------|--|
| Experiment Information - | |
| PURPOSE | to obtain multi resolution data for CCDB |
| TITLE | Intracellular injection of hippocampal astrocyte |
| EXPERIMENTER | Diana Price & Andrea Thor |
| EXPERIMENT_NAME | |
| EXPERIMENT_DATE | 2002-02-27 00:00:00.0 |

| Subject Information - | |
|-----------------------|-------------------|
| GROUP_BY | |
| SUBJECT_NAME | control |
| FIXATION_METHOD_ID | |
| SCIENTIFIC_NAME | rattus norvegicus |
| SPECIES | rat |
| STRAIN | Sprague Dawley |
| AGE | days |
| AGECLASS | Adult |
| ANIMAL_NAME | |
| LITTER_ID | |
| SEX | unspecified |
| VENDOR | |
| WEIGHT | grams |

| Tissue - | |
|---------------------|------------|
| ANATOMIC_LOCATION | cerebellum |
| MICROTOME | Vibratome |
| ORIENTATION | sagittal |
| THICKNESS | um |
| TISSUE_PROD_STORAGE | |
| EXTERNAL_FILE_NAME | |
| TISSUE_GROUP_TYPE | |

| Microscopy Product Information - | |
|----------------------------------|--|
| MICROSCOPY_PRODUCT_ID | 1132 |
| IMAGE_BASENAME | PC5AZ |
| CREATE_DATE | 1998-04-12 00:00:00.0 |
| INSTRUMENT | Biorad MRC 1024 confocal |
| MICROSCOPE_TYPE | LASER SCANNING CONFOCAL |
| PLANE_COUNT | 36 |
| PRODUCT_TYPE | OPTICAL SECTION |
| PURL | |
| SESSION_NAME | |
| TELESCIENCE_SRB | P1123/Experiment_4/Subject_4/Tissue_73/Microscopy_1132 |
| X_RESOLUTION | .237 um/pixels |
| Y_RESOLUTION | .237 um/pixels |
| XSIZE | 1024 |
| YSIZE | 1024 |

Protocol:

N/A

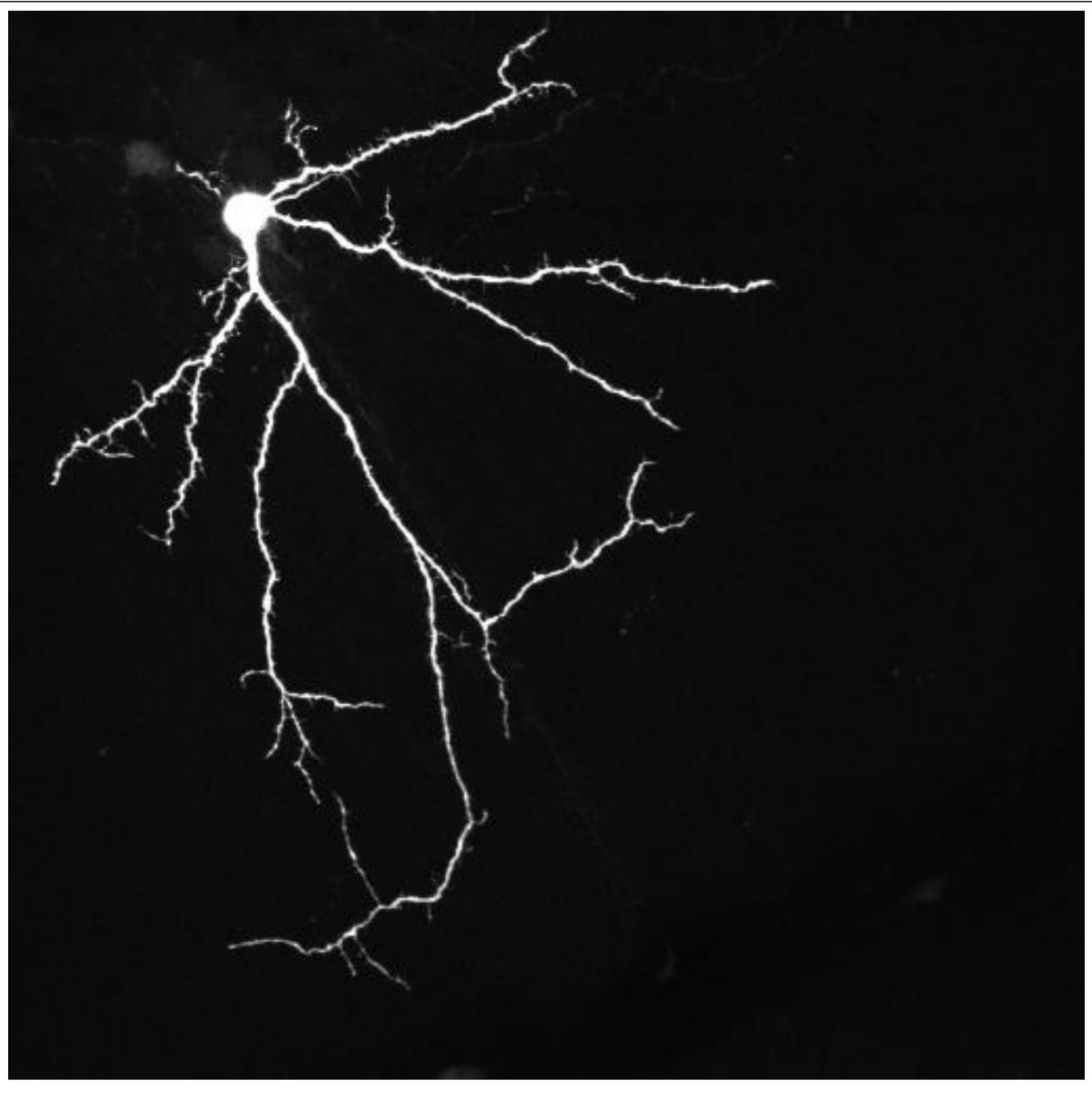
| Image Type - | |
|------------------------|--|
| OPTICAL_SECTION_SERIES | 2023 |
| OPTICAL_Z_RESOLUTION | .3 um |
| OPTICAL_NOTES | Z resolution determined from optical section header file; was not verified |

| Specimen Description - | |
|------------------------|--|
| ANATOMICAL_DETAIL | 2030 |
| ATLAS_COORD | , , |
| CELL_TYPE | cerebellar basket cell |
| ORGAN | brain |
| REGION | cerebellum |
| SYSTEM | central nervous system |
| ANATOMICAL_NOTES | This neuron was identified as a cerebellar basket neuron based on morphology. Unfortunately, the original lab records are lost |

| Light Microscopy Product - | |
|----------------------------|----------|
| LMPRODUCT_ID | 2023 |
| IMMERSION_MEDIUM | oil |
| LENS_MAGNIFICATION | 40 X |
| MOUNTING_MEDIUM | gelvatol |
| NUMERICAL_APERTURE | 1.4 |
| LM_NOTES | mmartone |

Reconstruction

Reconstruction Image -



| Reconstruction - | |
|--------------------------|--|
| RECONSTRUCTION3D_ID | 2105 |
| CROPPING_COORDINATE1 | , |
| CROPPING_COORDINATE2 | , |
| RECON_DESC | Zipped archive containing the optical section series in Biorad PIC format |
| RECON_TYPE | optical section series |
| VOLUME_DIMENSION | 1024, 1024, 36 |
| VOLUME_NAME | /telescience/home/CCDB_DATA_USER.portal/P1123/Experiment_4/Subject_4/Tissue_73/Microscopy_1132/PC5AZ_img.zip |
| VOXEL_SCALE | .237, .237, .3 |
| RECONSTRUCTION_IMAGES_ID | 2097 |
| RECON_IMAGE_DESC | Maximum intensity projection through an optical section series of an intracellularly injected basket cell from the rat cerebellar vermis. |
| RECON_RAW_FILENAME | /telescience/home/CCDB_DATA_USER.portal/P1123/Experiment_4/Subject_4/Tissue_73/Microscopy_1132/PC5AZ_img.zip |
| RECON_FILE_NAME | /telescience/home/CCDB_DATA_USER.portal/P1123/Experiment_4/Subject_4/Tissue_73/Microscopy_1132/PC5AZ_img2.jpg |
| VOLUME_THUMBNAIL | P1123/PC5AZ_img_thmb.jpg |
| ANIMATION_FILE | /telescience/home/CCDB_DATA_USER.portal/P1123/Experiment_4/Subject_4/Tissue_73/Microscopy_1132/PC5AZ_vol2.mov |
| ANIMATION_FILE_FORMAT | Quicktime |
| ANIMATION_DESC | Rotation loop of maximum intensity projection through a filled basket cell from the rat cerebellar vermis. The movie was created in Imaris and shows an orientation grid superimposed. |

USER AGREEMENT

Data Sharing and Citation Policy: The mission of the CCDB is to promote data sharing among scientists interested in cellular and subcellular anatomy and in developing computer algorithms for 3D reconstruction and modeling of such data. Data sets may be viewed or shared at the discretion of the author of the data. In some cases, the data may be freely viewed and downloaded without contacting the original author while in other cases, permission of the author may have to be obtained prior to downloading the data. In either case, failure to cite or give proper credit to the original authors who collected these data in subsequent published articles or presentations is a material breach of this User Agreement. CCDB requires all researchers re-analyzing these published data via the CCDB access to reference the original published article and the CCDB. An example of an appropriate acknowledgement is provided on the CCDB web site. CCDB is not in a position to police every intended use of these data. The scientific community will self-police the compliance of this contractual obligation.

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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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