Cell Centered Database University of California, San Diego maryann@ncmir.ucsd.edu

Microscopy Product #:3563 datkoc2g28 For the most updated information, please visit http://ccdb.ucsd.edu/CCDBWebSite/main?event=displaySum&mpid=3563		
Image2D	Reconstruction	Segmentation
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Project Information:

PROJECT_ID	P1207
PROJECT_NAME	Correlative microscopic characterization of dendritic spines in a transgenic mouse model of hyperdopaminergia: The dopamine transporter knockout mouse
PROJECT_DESCRIPTION	Multiscale characterization of DAT KO transgenic mouse
LEADER	Diana Price
FUNDING_AGENCY	NIH
PROJECT_START_DATE	2003-01-01 00:00:00.0
PROJECT_END_DATE	
COLLABORATORS	Aki Laakso, Michele Cyr, <u>Maryann Martone</u> , <u>Naoko Yamada</u> , Andrea Thor, Monica Berlanga
PUBLICATION1	
PUBLICATION2	
PUBLICATION3	

Experiment Information -	
PURPOSE	Tomographic reconstruction of medium spiny dendrites from the neostriatum using UHVEM in a dopamine transporter knock out mouse
TITLE	P1207 Exp 2
EXPERIMENTER	Diana Price and Andrea Thor
EXPERIMENT_NAME	
EXPERIMENT_DATE	2003-02-20 00:00:00.0

Subject Information -	
GROUP_BY	genetic manipulation
SUBJECT_NAME	ДАТКО
FIXATION_METHOD_ID	
SCIENTIFIC_NAME	mus musculus
SPECIES	mouse
STRAIN	B6;129-/Slc6a3 tm2Mca
AGE	7.3 months
AGECLASS	adult
ANIMAL_NAME	
LITTER_ID	
SEX	unspecified
VENDOR	Marc Caron, Howard Hughs Medical Institute, Duke University
WEIGHT	26 grams

Tissue -	
ANATOMIC_LOCATION	dorsal lateral striatum Cell 2
MICROTOME	ultramicrotome
ORIENTATION	coronal
THICKNESS	4 um
TISSUE_PROD_STORAGE	
EXTERNAL_FILE_NAME	
TISSUE_GROUP_TYPE	none

Microscopy Product Information -		
MICROSCOPY_PRODUCT_ID	3563	
IMAGE_BASENAME	datkoc2g28	
CREATE_DATE	2006-04-10 00:00:00.0	
INSTRUMENT	Hitachi UHVEM	
MICROSCOPE_TYPE	UHVEM	
PLANE_COUNT		
PRODUCT_TYPE	SINGLE TILT	
PURL		
SESSION_NAME	1 datko cell2 grid 28	
TELESCIENCE_SRB	P1207/Experiment_19/Subject_19/Tissue_33/Microscopy_3563	
X_RESOLUTION	.021 nm/pixels	
Y_RESOLUTION	.021 nm/pixels	
XSIZE	1024	
YSIZE	1024	

Protocol:

Experiment #1 DAT KO mouse 02/20/03

Description: Photoconverted dye-filled striatal medium spiny neurons for EM

Animal Info: ID# 1040 Weight: 26g DOB: 7/12/02 Protocol

1. Perfusion (at Duke) Nembutal; 4% paraformaldehyde + 0.1% gluteraldehyde

2. Sectioned on Vibratome (at NCMIR) Thickness = 100 microns Store in 1X PBS in fridge

3. Fill cells with Lucifer yellow4. Store slices with filled cells in 4% para in fridge

5. Wash 6x with PBS 1X (on ice)

6. When ready to begin photoconversion, turn on the chiller in confocal room. Set at ~4 C. The refrigerator unit should be set at TEMP < 45 C. Switch ON. Stage needs around 20 minutes to come to temperature. Pull unit out into hallway (to avoid increase in temperature).

6. Place slices in 2% glut/PBS on ice for 15 minutes

0.8 ml 25% gluteraldehyde 2 ml 5x PBS 6.2 ml ddH20

7. Briefly wash slices in PBS
8. Place slices in PBS/glycine for a few minutes

38 mg glycine 10 ml 1x PBS

9. Follow instructions for Photoconversion of Lucifer Yellowfilled cells

10. After photoconversion, remove DAB solution and wash slice 3x10 minutes in generous volumes of PBS on ice. Must remove allDAB before beginning osmification.

Microwaving protocol for osmication, dehydration, and embedding of photoconverted slices

* Prepare Resin mix and let it sit covered and undisturbed until needed (instructions by fume hood in embedding area). * Rinse slices with a generous amount of cold 1X PBS on ice for ~ 10 min.

* Turn on circulating bath (over 20 C, ~ RT): water bath (left hand side) will fill.

* Insert temperature probe

* Fill other T-beaker with water

* Set temperature to 35 C

* Open new bottle of 100% ethanol and prepare following dilutions:

90% ethanol 70% ethanol 50% ethanol

* Make up osmium solution under fume hood and chill on ice

* 1% osmium tetroxide in PBS on ice.

2.0 ml PBS 5X then 5.5 2x distilled H2O 2.5 ml Osmium 4%

- * Rinse w/ 2x distilled H2O ¿ 3 x 5min
- * Warm up microwave for 2 minutes on high
- * Label tubes & place in rack on ice
- * Fill tubes with osmium solution (w/ meniscus at 0.5)
- * Using glass hooks, transfer slices to tubes
- * Remove temperature probe & set temp above 50 C.
- * Put rack w. tubes in for 40 sec at full power
- * Change rear water load in T-beaker

* Change osmium solution on ice and microwave for another 40 seconds at full power

* Rinse samples for 2 minutes in distilled water on benchtop (at RT)

- * Insert petri bath with H2O under rack
- * Dehydration steps (2 x 40 seconds per step; all @ 35 C)

1st 2nd 50% EtOH

70% EtOH

90% EtOH

100% EtOH

100% Acetone

* All of the dehydration steps should be carried out in microcentrifuge tubes filled with 600 ml of solution. Temperature probe should be in petri dish and set for 35. Change water in rear water load when warm to touch.

* Change from water to acetone in petri bath under rack ¿ check acetone bath level every 3 minutes

* Infiltration steps (both @ 50 C):

With a 50/50 mixture of resin and acetone:

1 x 15 min 1:1 Resin:acetone

* Check rear water load at 7.5 minutes

Switch to 100% resin for 3 x 10 minutes:

1st 2nd 3rd 100% Resin

*Periodically check rear water load

* Flat embed samples between mould release slides and place in embedding oven under vacuum.

Image Type -	
SINGLE_TILT_IMAGE_SEQ_ID	6040
TILT_INCREMENT	2 degrees
SINGLET_DESC	single tilt series of photoconverted spiny dendrite
SINGLE_TILT_NOTES	4um thickness sample with 30nm gold was shot in Japan with
	Hitachi UHVEM 3MeV.
SINGLETILTIMAGESEQ_ID	6040
TILT_INCREMENT	2 degrees
RANGE_MAX	60 degrees
RANGE_MIN	-60 degrees
SINGLET_DESC	single tilt series of photoconverted spiny dendrite
SINGLE_NOTES	4um thickness sample with 30nm gold was shot in Japan with
	Hitachi UHVEM 3MeV.

Specimen Description -	
ANATOMICAL_DETAIL	6039
ATLAS_COORD	<u>,</u> ,
CELL_TYPE	medium spiny neuron
ORGAN	brain
REGION	neostriatum
STRUCTURE	spiny dendrite
SYSTEM	central nervous system

Electron Microscopy Product -	
EM_PRODUCT_ID	6059
ACCELERATING_VOLTAGE	3 MeV
EMBEDDING_MEDIUM	resin
MAGNIFICATION	3000
RECORDING_MEDIUM	film

Raw 2D Image



Raw 2D Image -	
IMAGE2D_ID	6038
BIT_DEPTH	16 bit
IMAGE_DATE	2006-04-10 00:00:00.0
IMAGE_FILE_FORMAT	imod
IMAGE_FILE_NAME	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_img.jpg
MAGNIFICATION	3000 X
RAW_ANIMATION_DESC	tilt series animation of photoconverted spiny dendrite in mpg format
RAW_ANIMATION_FILE	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_MIProt.mpg
RAW_DATA_FILE	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_img.tar
THUMBNAIL_DESC	512x512 zerotilt image of photoconverted spiny dendrite in jpg format
THUMBNAIL_FILE	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_thumb_img.j pg
X_SIZE	2242 pixels
Y_SIZE	3340 pixels

Reconstruction

Reconstruction Image -



Reconstruction -	
RECONSTRUCTION3D_ID	6035
ALIGNMENT_METHOD	Imod
ALIGNMENT_PROGRAM	IMOD
CORRELATED_VOLUME_NAME	datkoc2g28_full.rec, datkoc2g28_trim.rec
CROPPING_COORDINATE1	2
CROPPING_COORDINATE2	3
RECON_ALGORITHM	R-weighted back projection
RECON_DATE	2006-06-21 00:00:00.0
RECON_DESC	first full imod reconstruction and trimmed reconstruction
RECON_PROGRAM	IMOD
RECON_TYPE	single tilt electron tomography
VOLUME_DIMENSION	2242, 3340, 400
VOLUME_NAME	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_vol.tar
VOXEL_SCALE	, ,
RECONSTRUCTION_IMAGES_I	6035
RECON_IMAGE_DESC	512x512 maximum intensity projection image of photoconverted spiny dendrite in jpg format
RECON_FILE_NAME	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_vol.jpg
VOLUME_THUMBNAIL	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_thumb_vol.j pg
ANIMATION_FILE	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3562/datkoc2g27_MIProt.mpg
ANIMATION_FILE_FORMAT	mpg
ANIMATION_DESC	maximum intensity projection 360-degree rotation movie in mpg format

Segmentation

Segmentation Image -



Segmentation -	
SEGMENTED_OBJECT_ID	6273
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6283
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6297
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6307
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6275
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6300
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6278
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6284
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6268
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6263
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6270
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6264
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6276
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6265
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6277
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6266
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6294
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6298
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6301
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6303
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6305
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6306
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6308
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6309
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6280
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6281
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6285
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6286
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6289
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6291
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6310
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -		
SEGMENTED_OBJECT_ID	6312	
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.	
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.	
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.	
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.	
IS_MANUAL	Y	
LABELING_RANK	none	
NUMBER_OF_OBJECT	0	
SEGMENT_PERSON_NAME	Masako Terada	
SEG_ALGORITHM	Manual via IMOD	
SEG_DESC	Spiny dendrite shaft and dendritic spines	
SEG_FILE_NAME	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_seg.tar	

Segmentation -		
SEGMENTED_OBJECT_ID	6262	
ANALYSIS_FILE_NAME	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/segmented_object_input _template_datkoc2g28.xls	
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.	
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.	
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.	
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.	
IS_MANUAL	Y	
LABELING_RANK	none	
NUMBER_OF_OBJECT	0	
SEGMENTED_OBJ_2D_IMAGE	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_seg512.jpg	
SEGMENT_PERSON_NAME	Masako Terada	
SEG_ALGORITHM	Manual via IMOD	
SEG_DESC	Spiny dendrite shaft and dendritic spines	
SEG_FILE_NAME	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_19/Tissue_33/Microscopy_3563/datkoc2g28_seg.tar	
THUMBNAIL	/telescience/home/CCDB_DATA_USER.portal/P1207/Experiment_1 9/Subject_49/Tissue_122/Microscopy_3530/wtg19_seg_img100.jpg	

Segmentation -	
SEGMENTED_OBJECT_ID	6299
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6269
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6302
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6272
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6271
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6287
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6290
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6293
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6295
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6296
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6304
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6311
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6274
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6279
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6282
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6288
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6292
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

Segmentation -	
SEGMENTED_OBJECT_ID	6267
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
ANALYZE_DESC	Volume, and surface area for shaft and individual spines. Length measurement is taken only for the shaft. Partial dendrites are noted with a "p" in their object names. Subsequently, their measurements are not taken.
DISPLAY_IMAGE_DESC	meshed model file of wt2g40 spiny dendrite. Green object denotes the shaft while all other colors denote spines.
DOWNLOADABLE_FILE_DESC	A .tar file containing a single IMOD .mod segmentation model. The shaft and dendritic spines have all been individually segmented.
IS_MANUAL	Y
LABELING_RANK	none
NUMBER_OF_OBJECT	0
SEGMENT_PERSON_NAME	Masako Terada
SEG_ALGORITHM	Manual via IMOD
SEG_DESC	Spiny dendrite shaft and dendritic spines

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USER NOTIFICATION

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ACKNOWLEDGEMENT

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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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Maryann Martone