

# Macros RoiManager3D

Command	Description	Example
Segment	3D thresholding and segmentation	Ext.Manager3D_Segment(low_threshold, high_threshold);
AddImage	Add the segmented objects into the 3D Manager	Ext.Manager3D_AddImage();
Count	Get the number of objects	Ext.Manager3D_Count(nb_obj); print("number of objects",nb_obj);
Rename	Rename the selected object	Ext.Manager3D_Rename("new name");
Delete	Delete the object from the list	Ext.Manager3D_Delete();
Erase	Delete the object and erase it from the image	Ext.Manager3D_Erase();
Reset	Reset the 3D Manager, delete all objects	Ext.Manager3D_Reset();
Select	Select an object (behavior depends on select mode, see monoselect or multiselect)	Ext.Manager3D_Select(object);
MultiSelect	MultiSelect mode, to make multiple selection	Ext.Manager3D_MultiSelect();
MonoSelect	MonoSelect mode, to select only one object	Ext.Manager3D_MonoSelect();
DeselectAll	Deselect all objects	Ext.Manager3D_DeselectAll();
ShowRoi	Draw the roi of the selected objects in the current slice of the current stack	Ext.Manager3D_Show_Roi();
List	Get the list of voxels of the selected objects (value are extracted from current stack)	Ext.Manager3D_List();
Measure	Compute geometrical measurements on selected objects (see 3D Manager Options to select the measures), if no objects are selected, measure all objects	Ext.Manager3D_Measure();
Measure3D	Compute the 3D geometrical measurements without ResultsTable, parameter is the type of measure ("Vol", "Surf", "Comp", "Feret", "Elon1", "Elon2", "DCMin", "DCMax", "DCMean", "DCSD")	object = 0; Ext.Manager3D_Measure3D(object,"Feret",measure); print("feret of object "+object+" = "+measure);
Centroid3D	Get the 3D coordinates of barycenter	Ext.Manager3D_Centroid3D(0,cx,cy,cz); print("center " : "+cx+" "+cy+" "+cz);
Quantif	compute intensity measurements on selected objects (see 3D Manager Options to select the measures), if no objects are selected, measure all objects	Ext.Manager3D_Quantif();
Quantif3D	Compute the 3D intensity measurements without ResultsTable, parameter is the type of measure ("IntDen", "Mean", "Min", "Max", "Sigma")	object = 0; Ext.Manager3D_Quantif3D(object,"IntDen",quantif); print("integrated density of object "+object+" = "+quantif);
MassCenter3D	Get the 3D coordinates of center of mass (from the current stack)	Ext.Manager3D_MassCenter3D(objet,cmx,cmy,cmz); print("mass center : "+cmx+" "+cmy+" "+cmz);
Distance	Compute the distances between objects (centre to centre, centre to border, border to border, radial distance, eccentricity)	Ext.Manager3D_Distance();
Dist2	Compute the distances without ResultsTable, the parameter is the type of distance ("cc", "bb", "c1b2", "c2b1", "r1c2", "r2c1", "ex2c1", "ex1c2")	Ext.Manager3D_Dist2(0,1,"cc",dist); print("distance",dist);
Coloc	Computes the percentage of colocalisation between objects, and contact surface (experimental)	Ext.Manager3D_Coloc();
Coloc2	Compute the colocalisation without ResultsTable	Ext.Manager3D_Coloc2(0,1,coloc1,coloc2,surf_cont); print("% Coloc ",coloc1,coloc2);
Angle	Computes the angles between 3 objects (based on centres)	Ext.Manager3D_Angle();