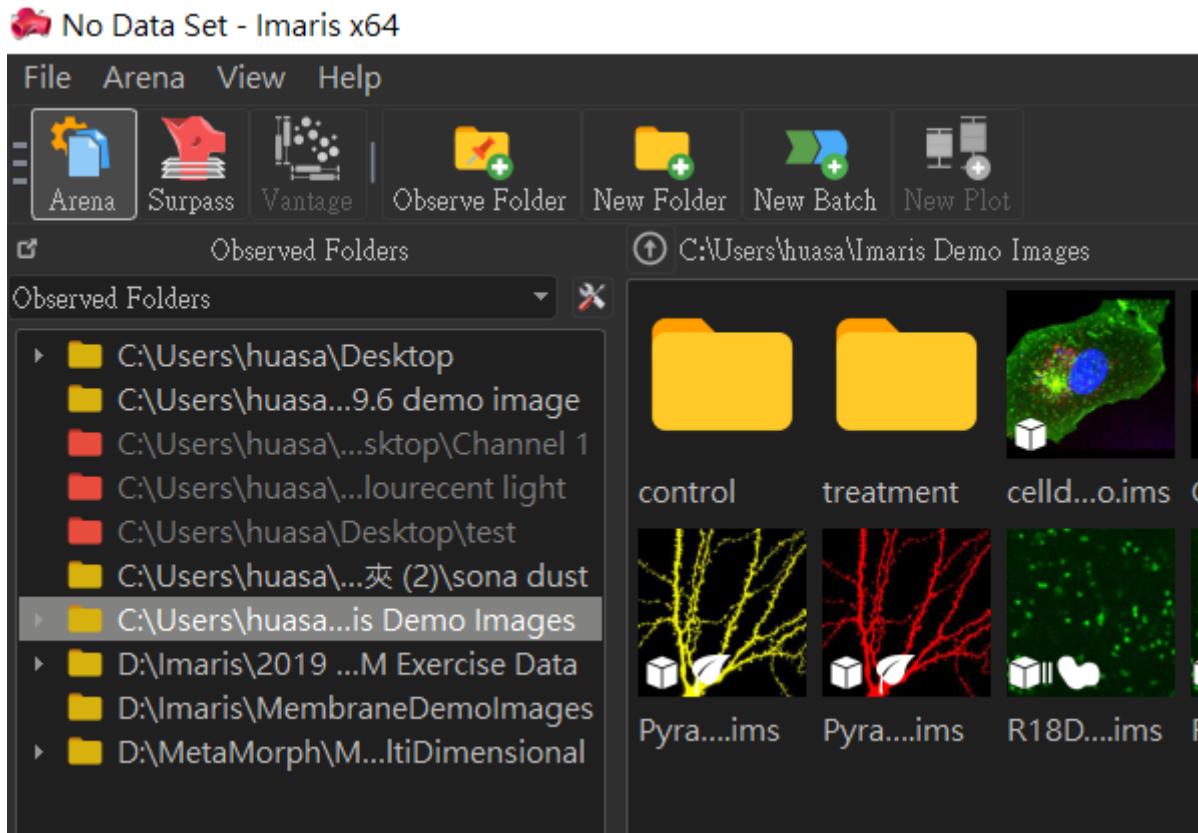
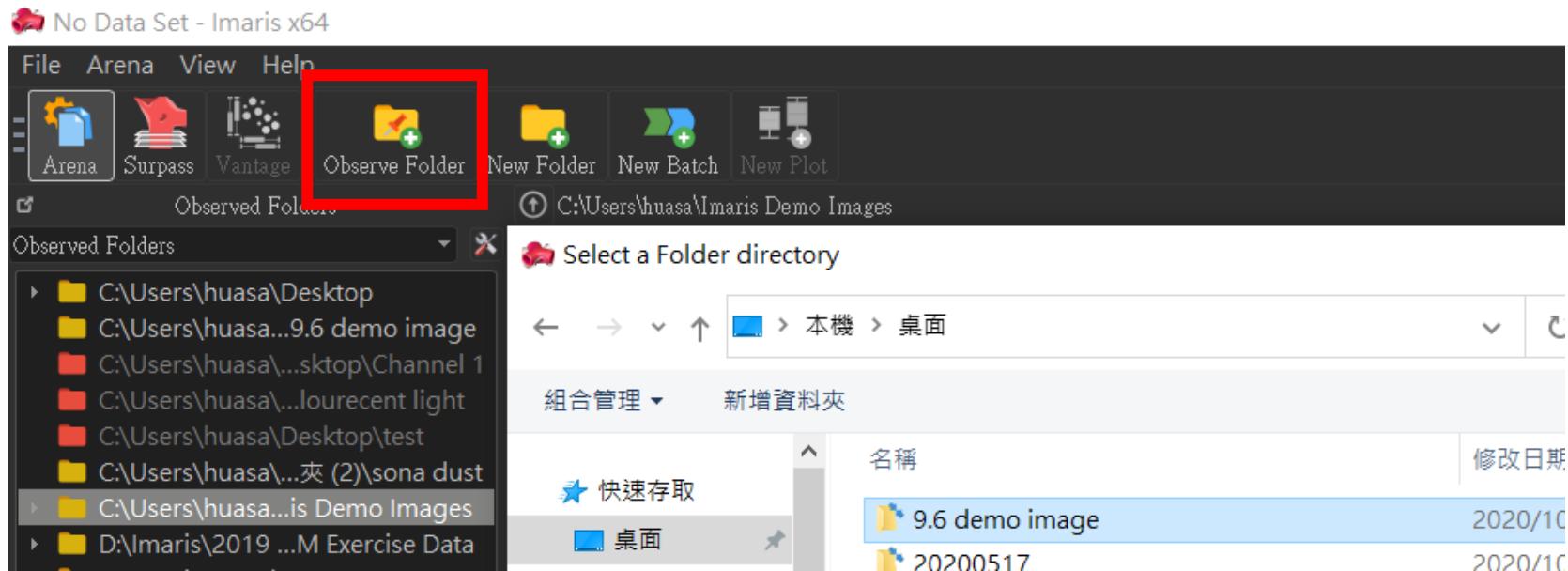


## Arena: 用來歸納分類整理影像圖檔

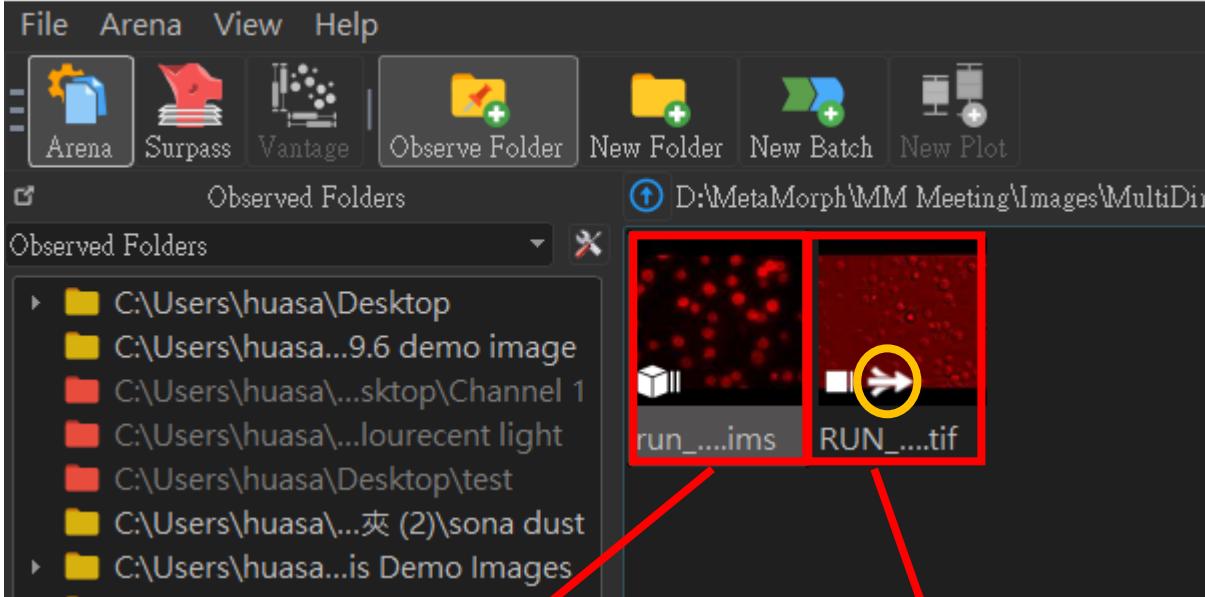


各式原始圖檔都須經由Imaris先行進行轉檔成.ims, 即可於Imaris軟體內進行分析與呈現

檔案開啟方式：於Arena內點選observe folder，將路徑指向檔案存放資料夾，則此資料夾內的所有圖檔會呈現於視窗內



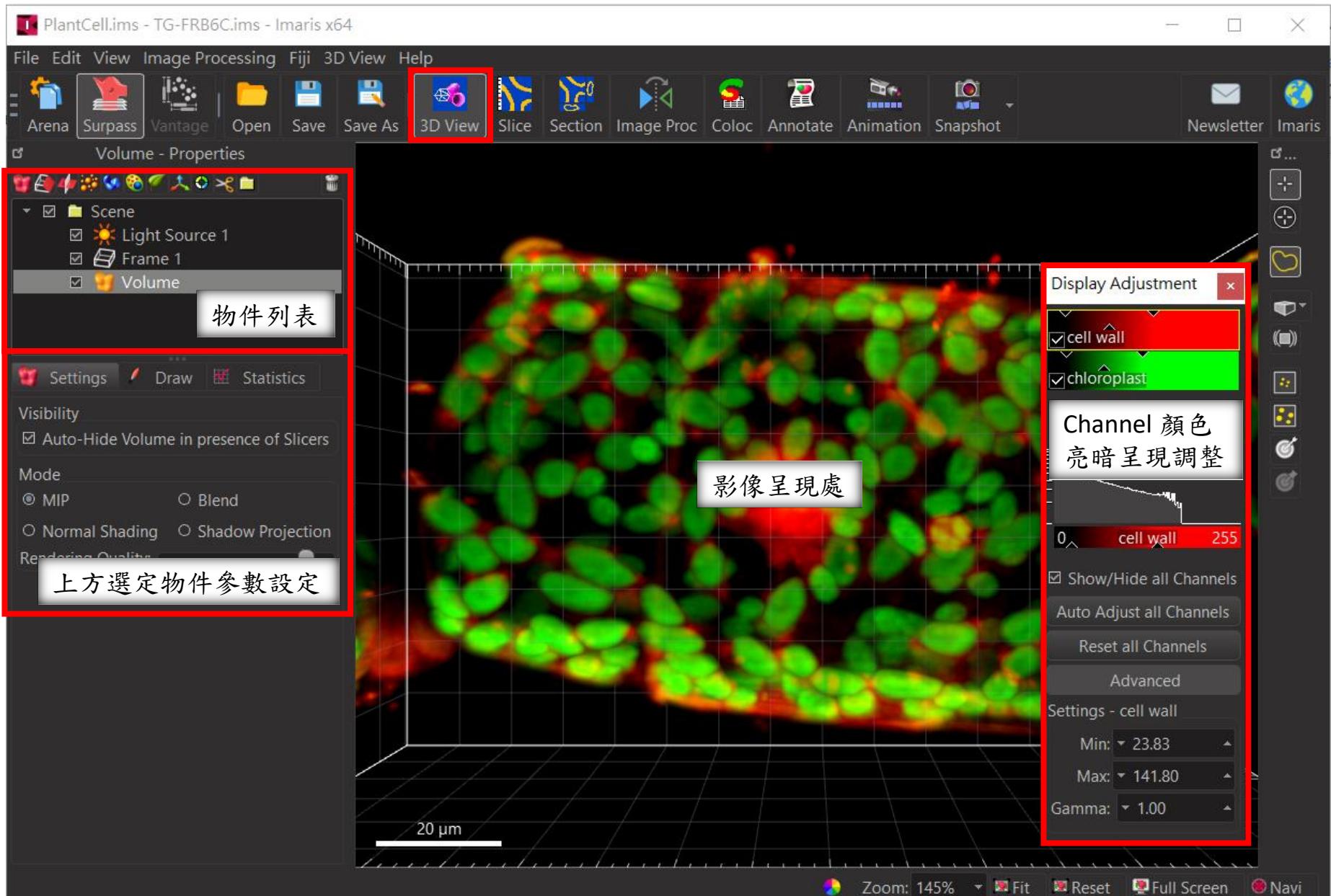
## No Data Set - Imaris x64



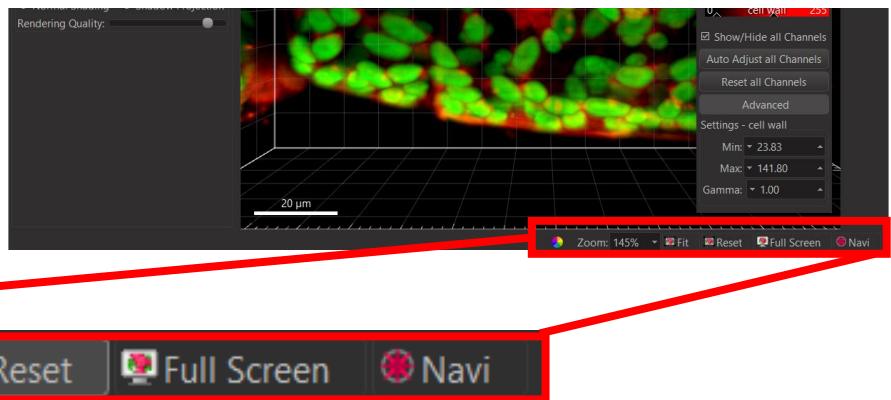
此圖檔為.ims檔案，因此滑鼠左鍵點2下即可直接開啟

此圖檔非.ims檔案(有箭號圖示)，因此滑鼠左鍵點2下即可進行.ims轉檔，待轉檔完成可直接開啟

# 軟體頁面介紹 – Surpass – 3D View 呈現3D重組影像



## 軟體頁面介紹 – Surpass – 3D View



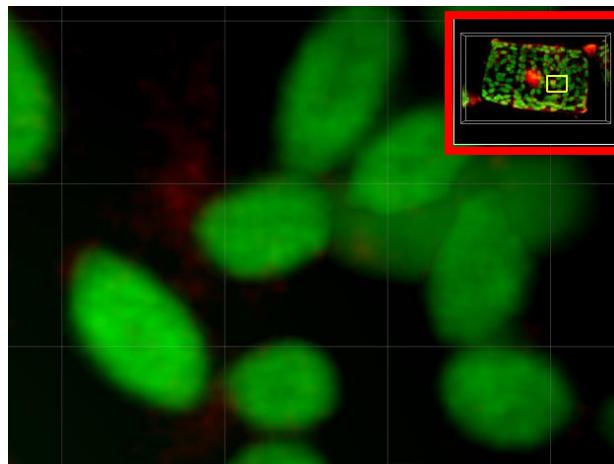
Zoom: 圖檔縮放比例

Fit: 最適視窗大小的圖檔縮放比例

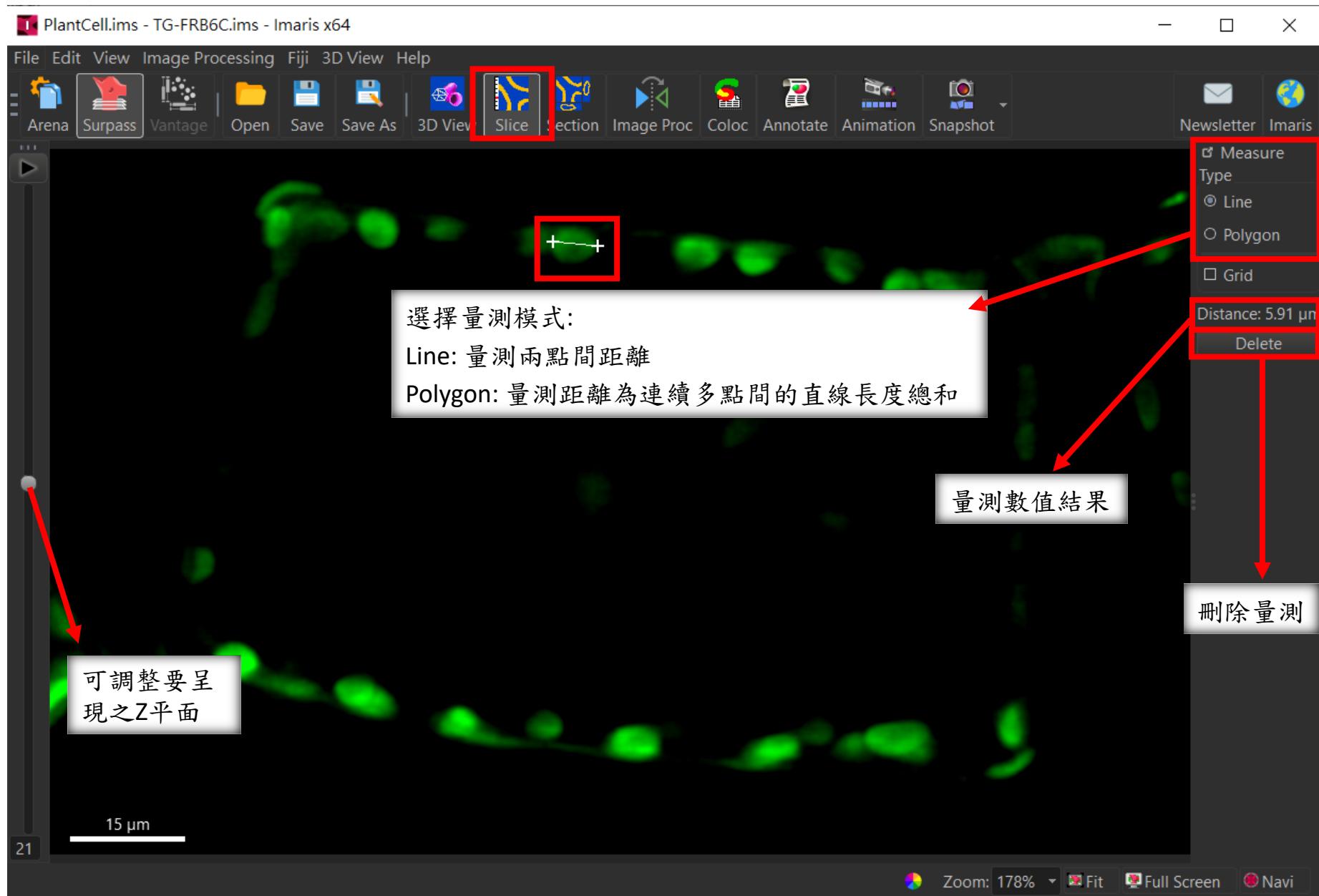
Reset: 圖檔重置回原始位置，且圖像置中

Full Screen: 圖檔以全螢幕顯示

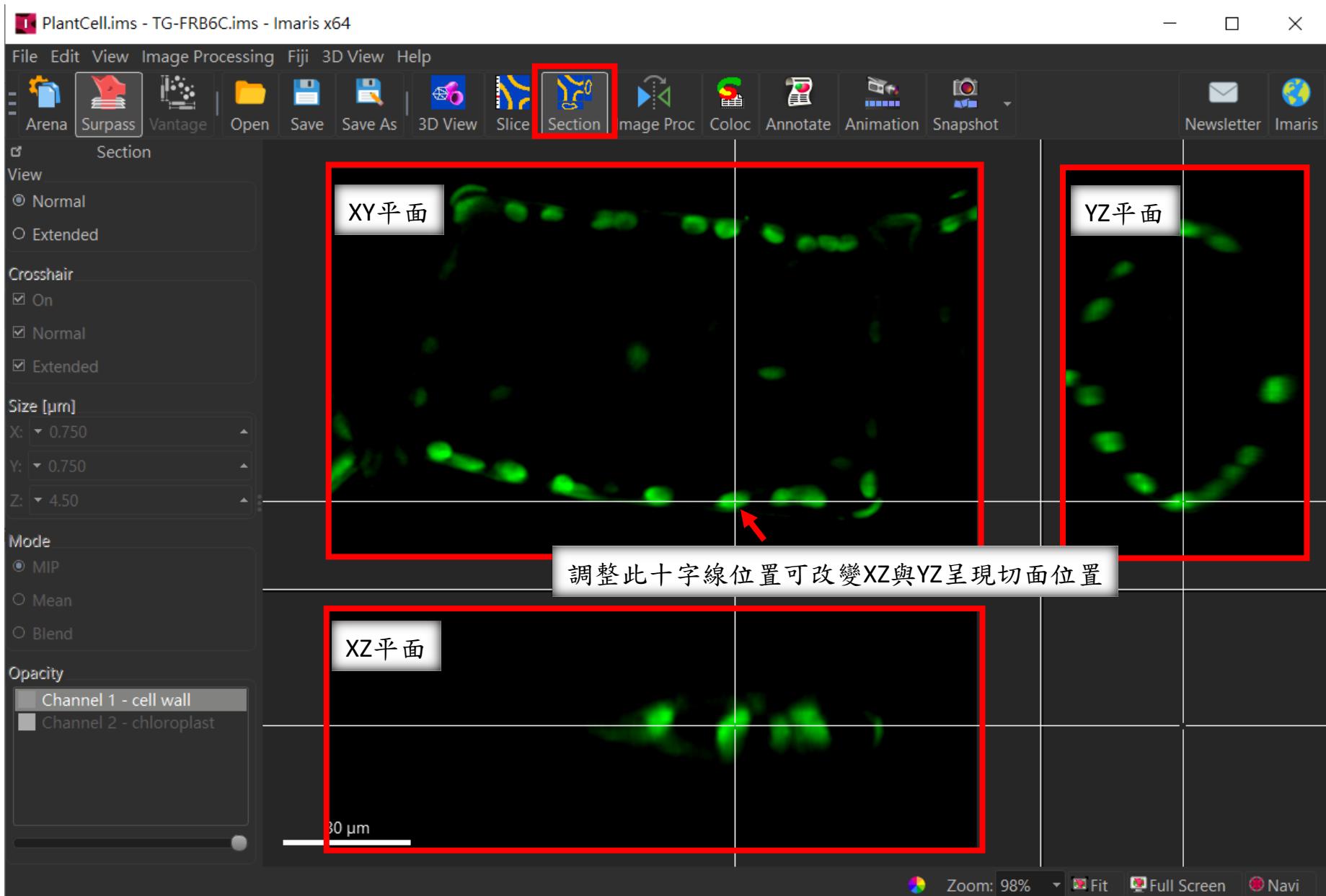
Navi: 開啟或關閉右上方小圖，開啟時用以確認目前影像位置位於整張影像的所在區域



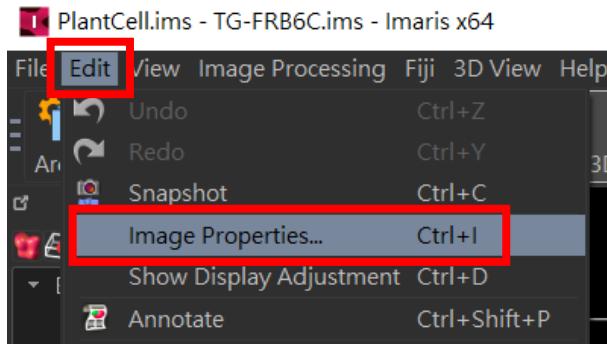
# 軟體頁面介紹 – Surpass – Slice 呈現不同Z軸位置呈現其XY平面



# 軟體頁面介紹 – Surpass – Section 同時呈現XY, YZ, XZ切面影像



# Edit – Image Properties – X, Y, Z 校正值數值修改



**Geometry**

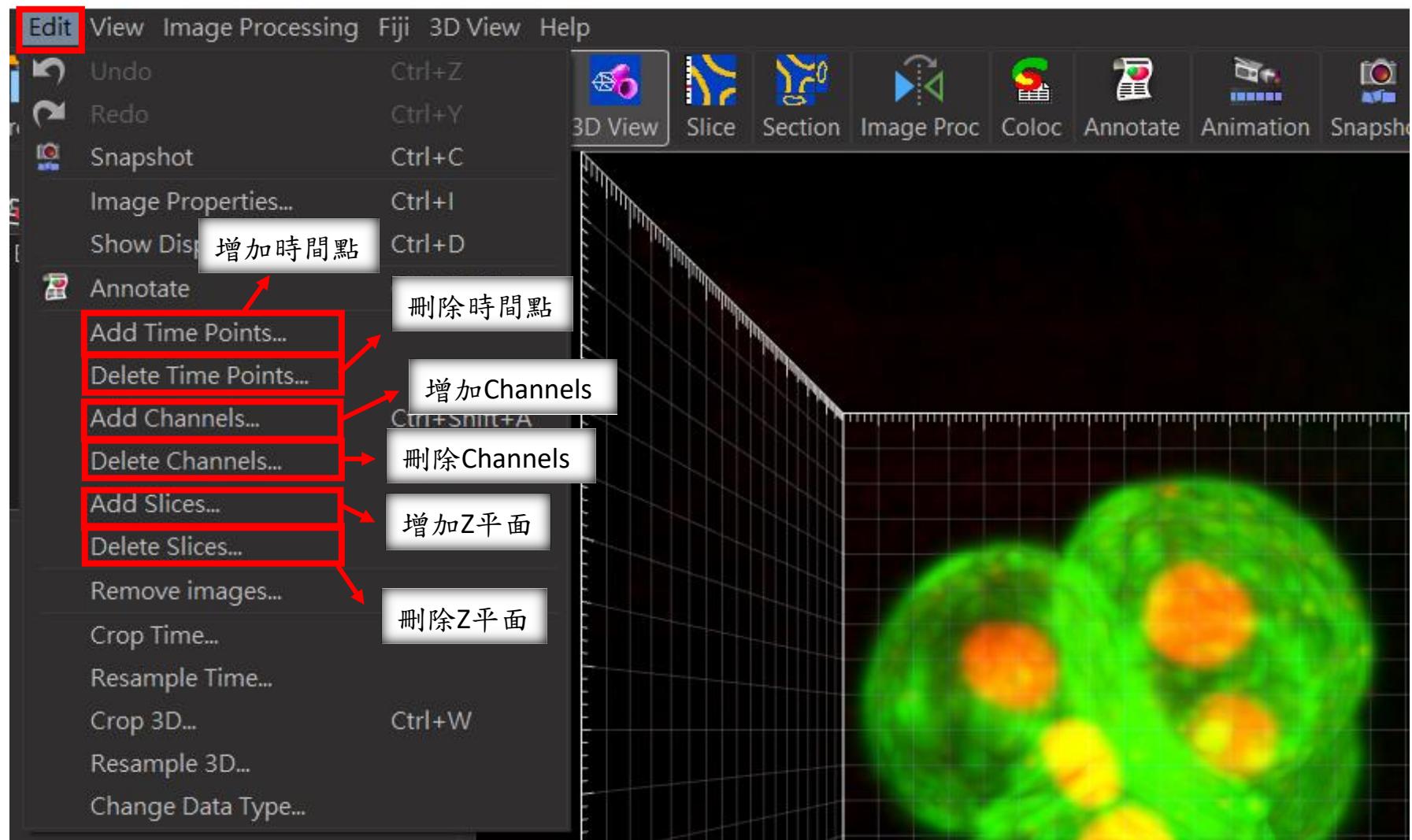
Type  
Data Type: 8 bit (unsigned)

Size  
Size: X: Y: Z: T:  
Image size: 填入正確X, Y, Z校正數值, 所獲得的3D重組比例才會是正確的

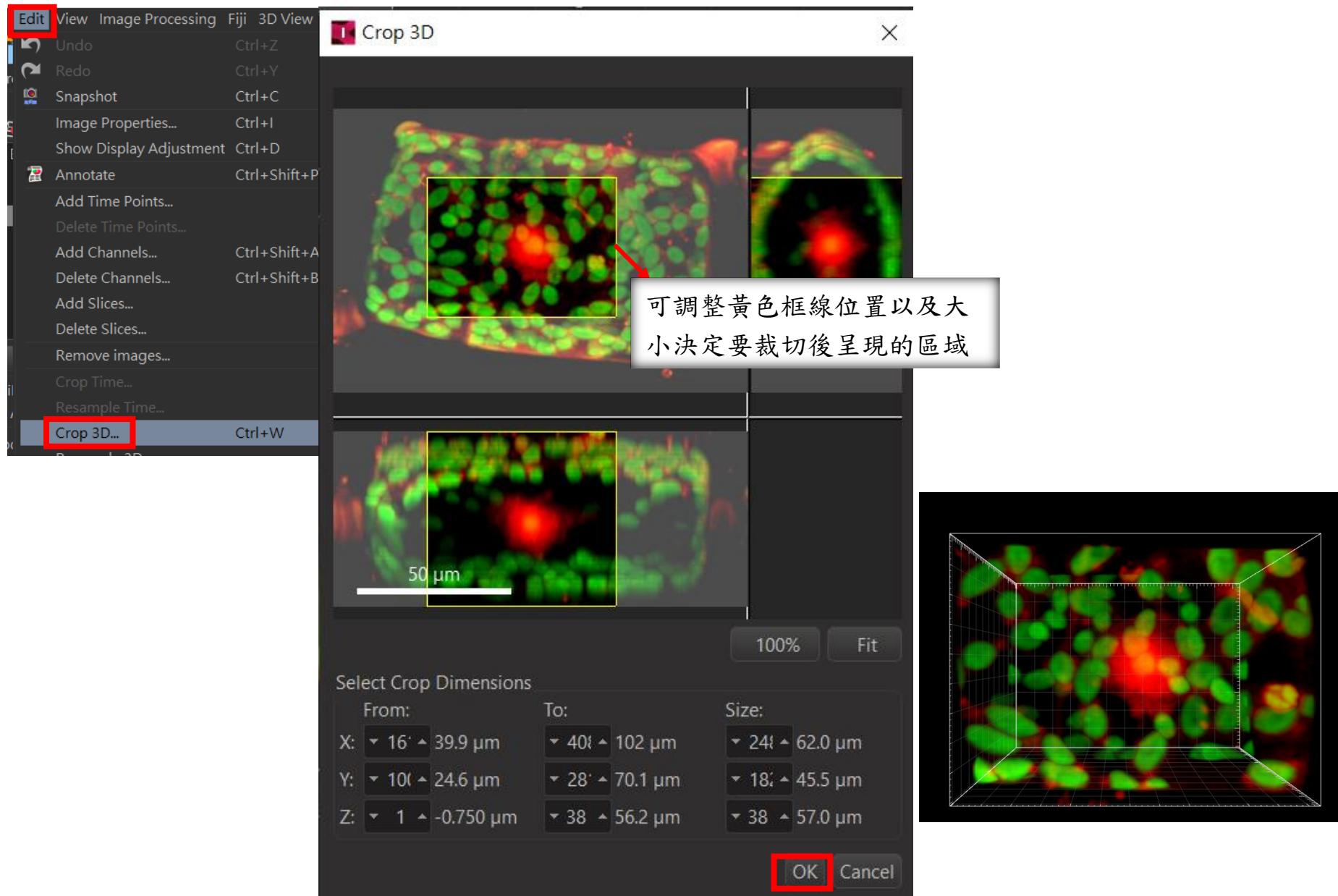
Coordinates [ $\mu\text{m}$ ]  
Voxel Size: X: 0.250 Y: 0.250 Z: 1.50  
Min: -0.125 -0.125 -0.750  
Max: 154 92.6 56.2

Time Point  
1  
Date [yyyy-mm-dd] 2003-05-12  
Time [hh:mm:ss.ssssss] 00:00:00.000  
All Equidistant...

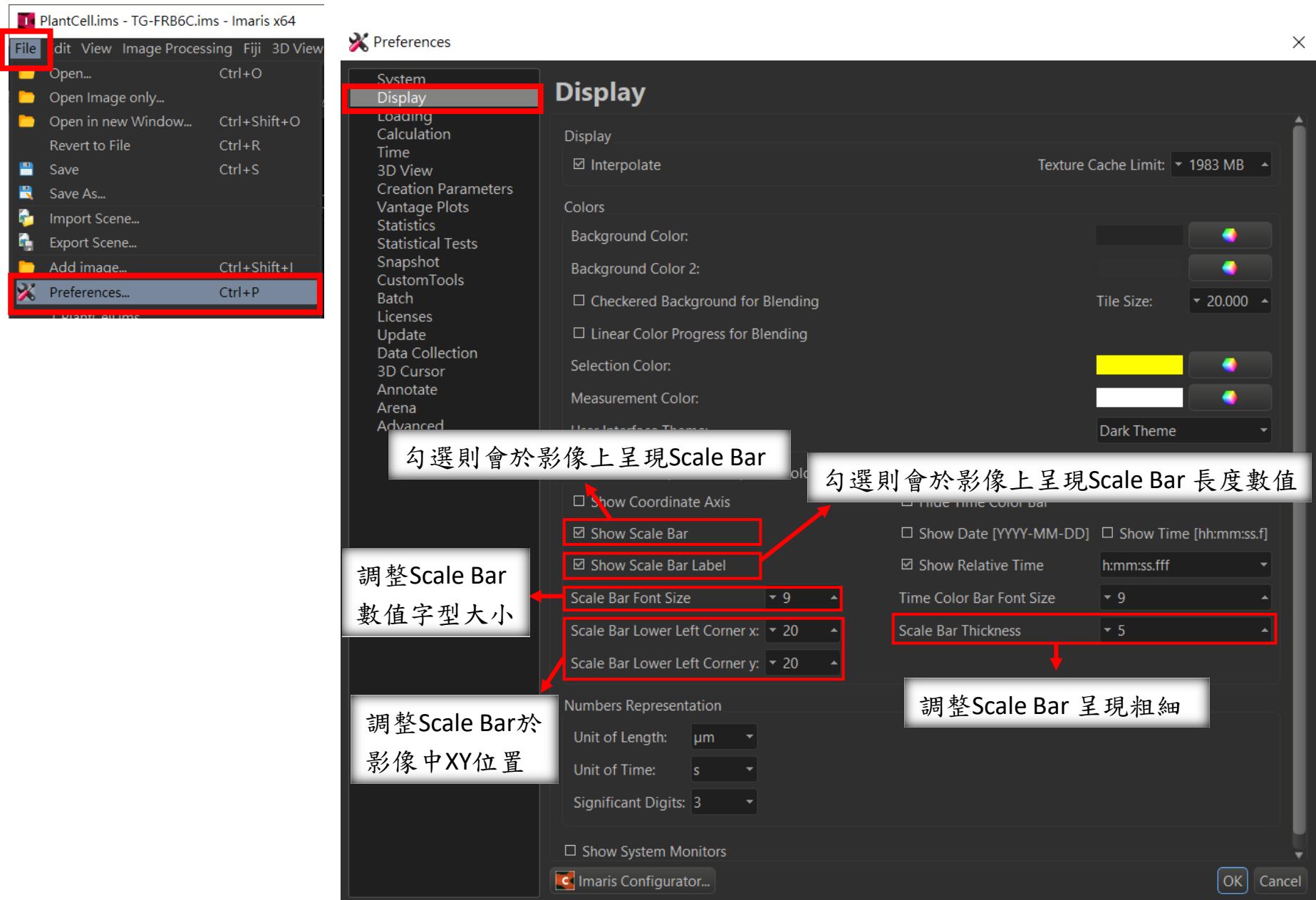
## Edit – Add/Delete Time Points, Add/Delete Channels, Add/Delete Slices



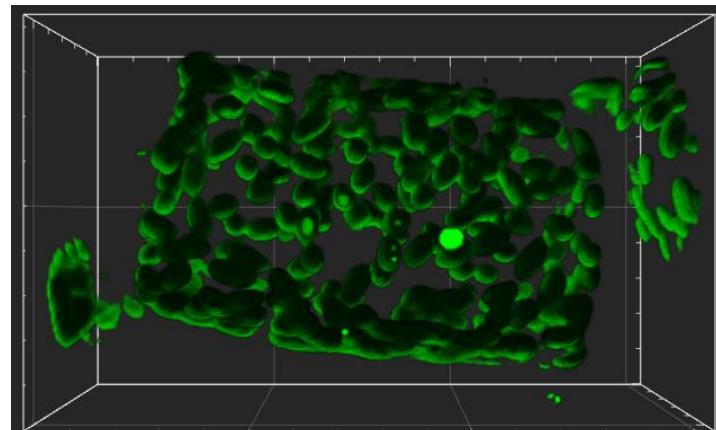
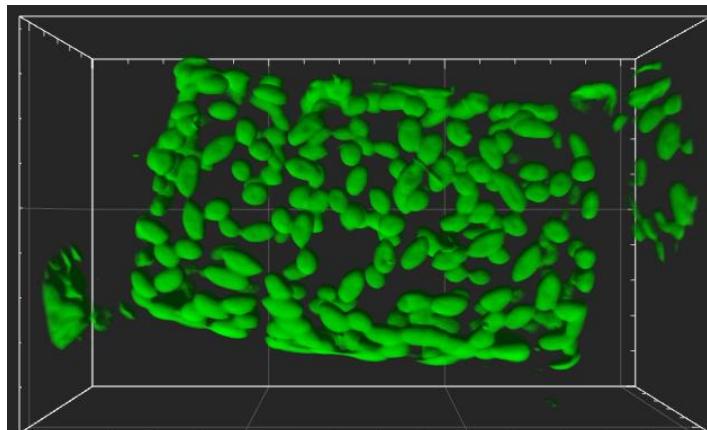
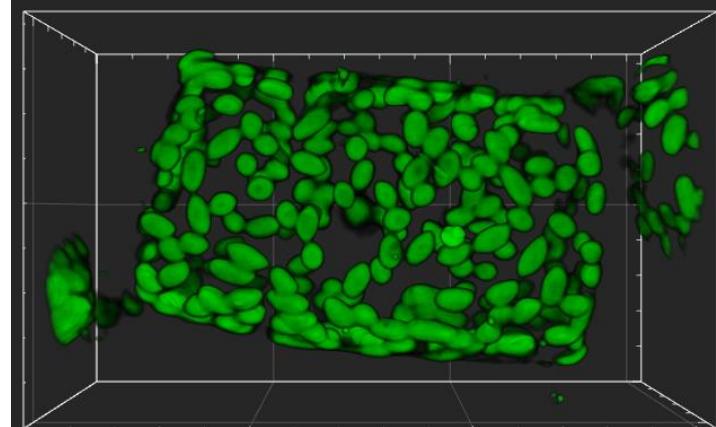
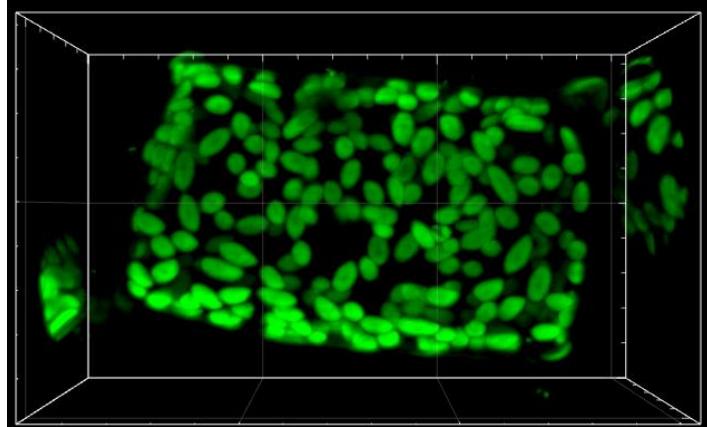
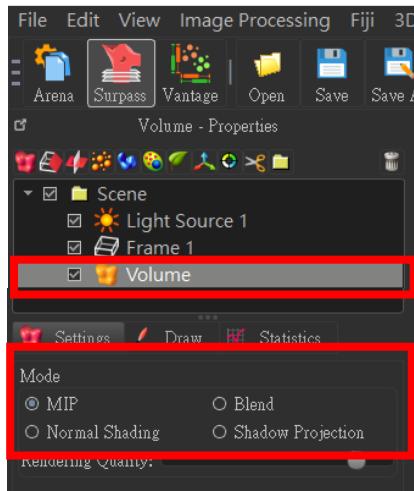
## Edit – Crop 3D 如果影像中有興趣區塊，可使用此功能進行裁切



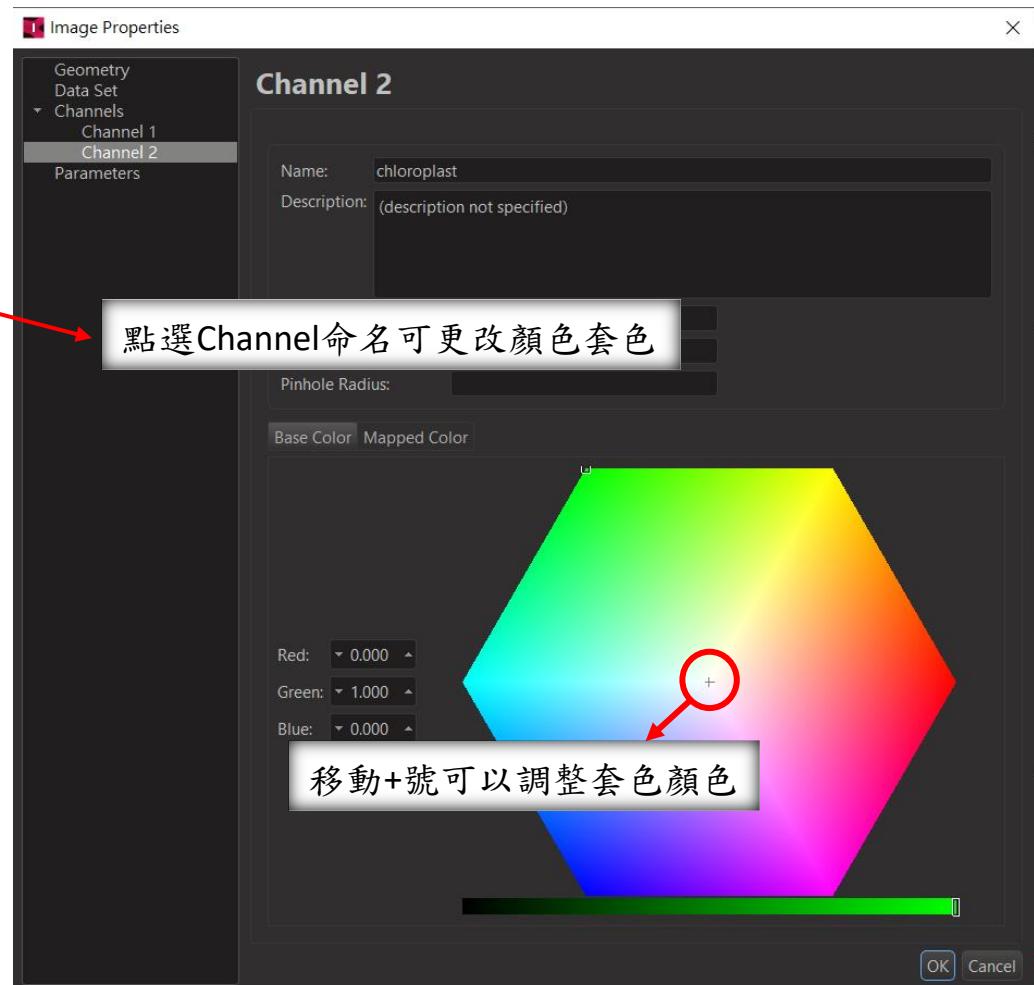
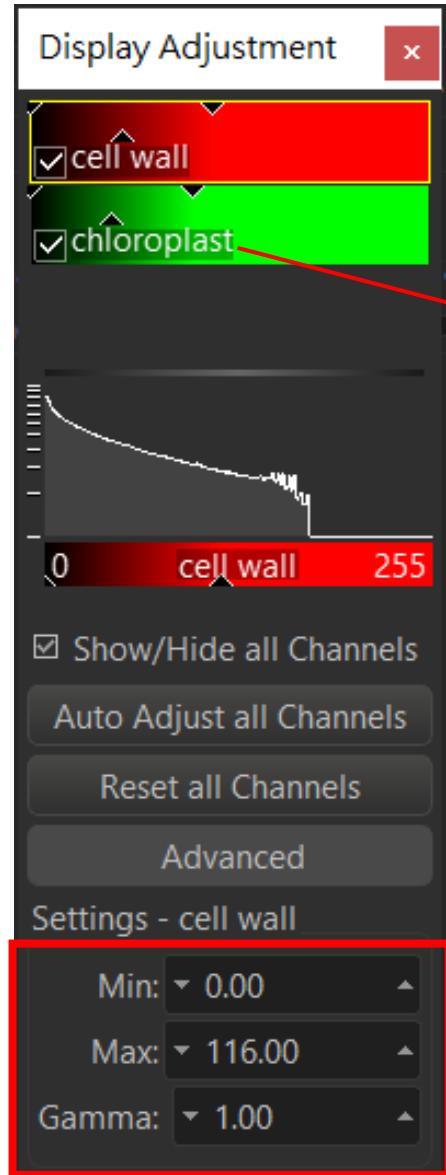
# File – Preferences – Display 調整Scale Bar 呈現



# Volume Rendering: 3D 影像呈現效果



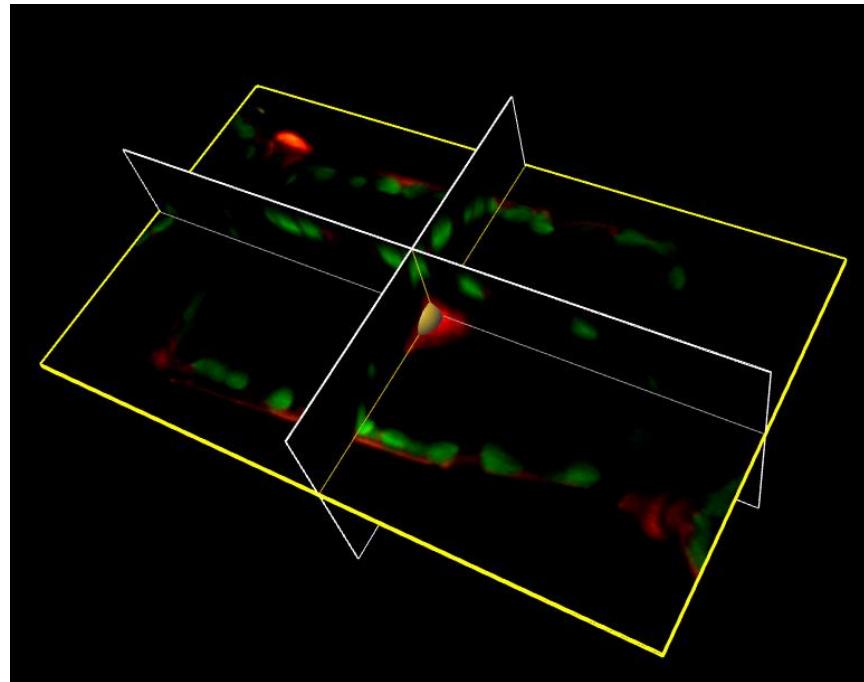
## Display Adjustment: 不同Channel顏色調整以及亮暗呈現



可調整各個Channel 亮暗呈現

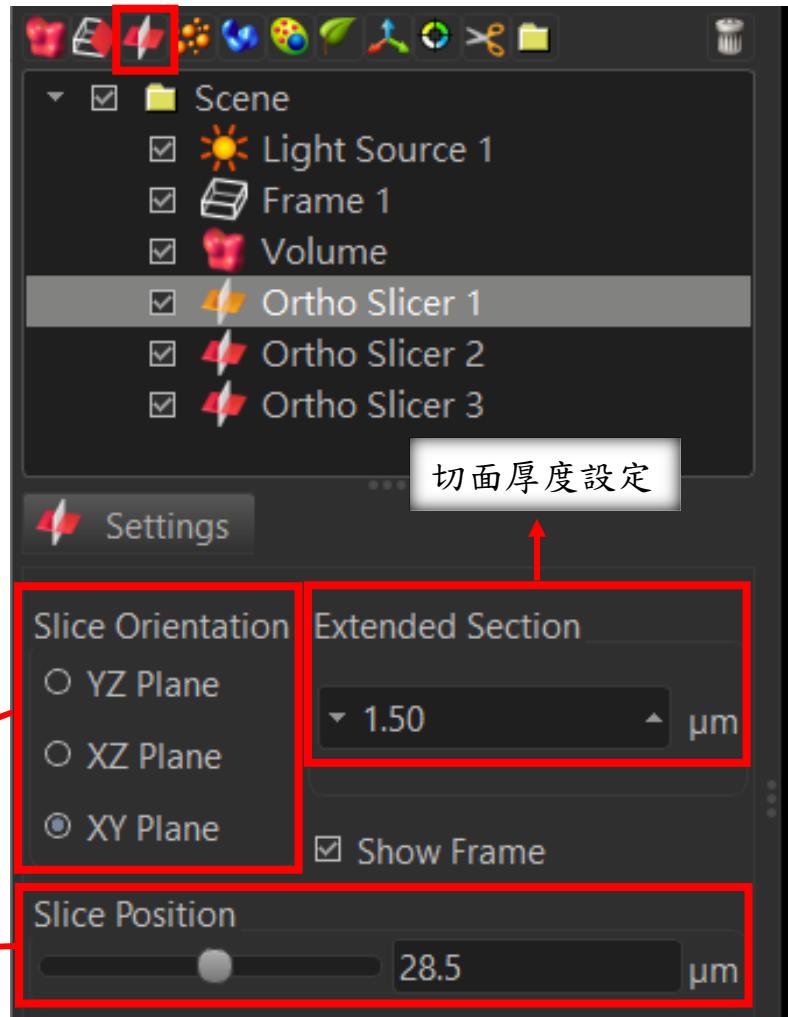


**OrthoSlicer:** 呈現不同方向的切面平面, 無法更改切面角度, 可觀察內部構造



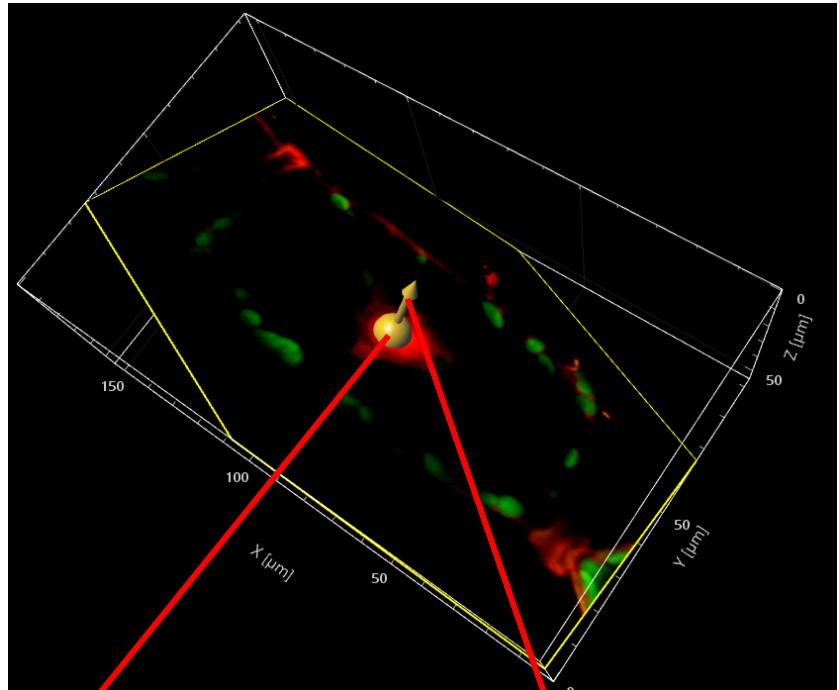
切面方向選擇

切面位置選擇





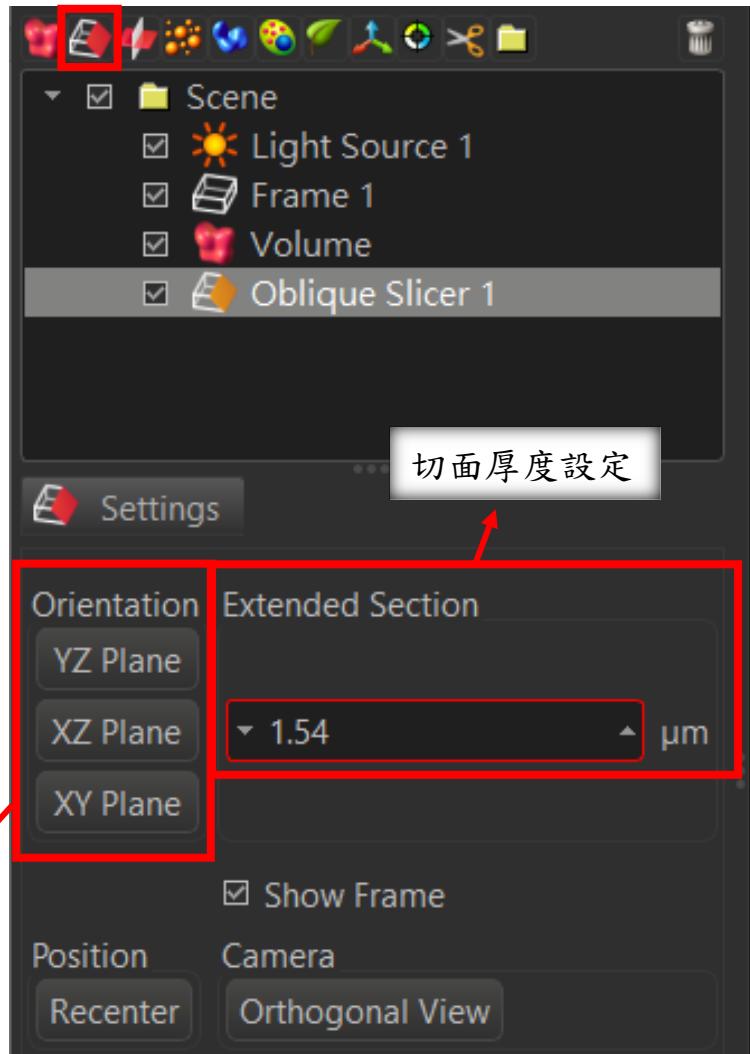
## Oblique Slicer: 呈現不同方向的切面平面, 可自行調整切面角度, 觀察內部構造



可平移:切面位置選擇

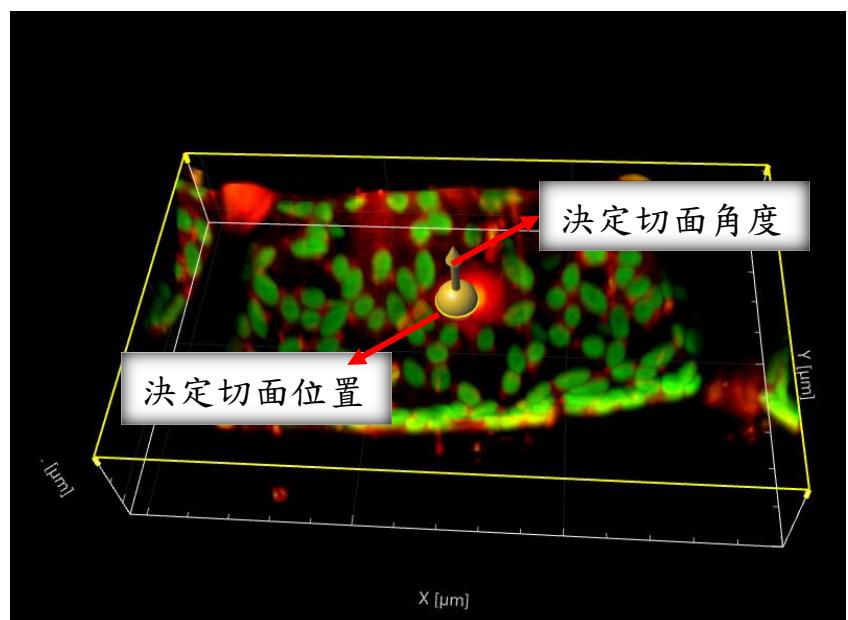
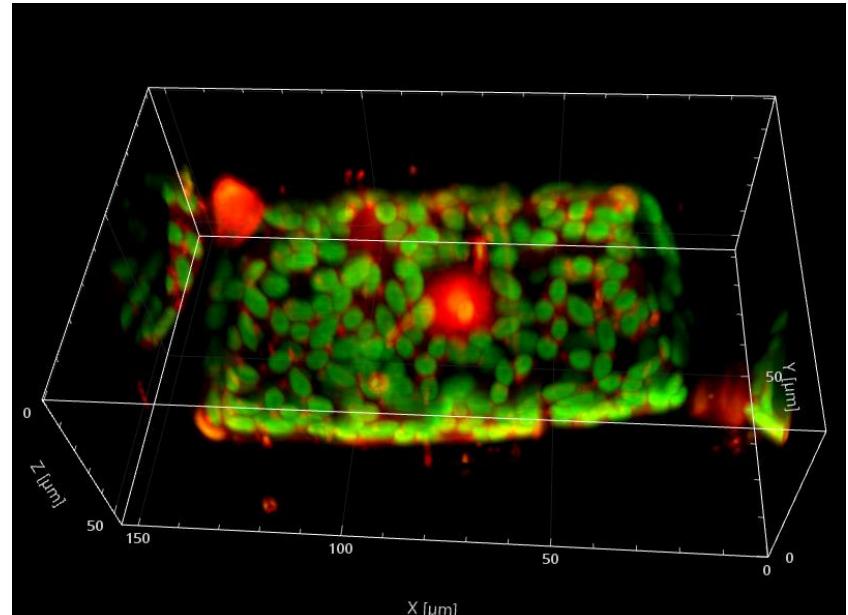
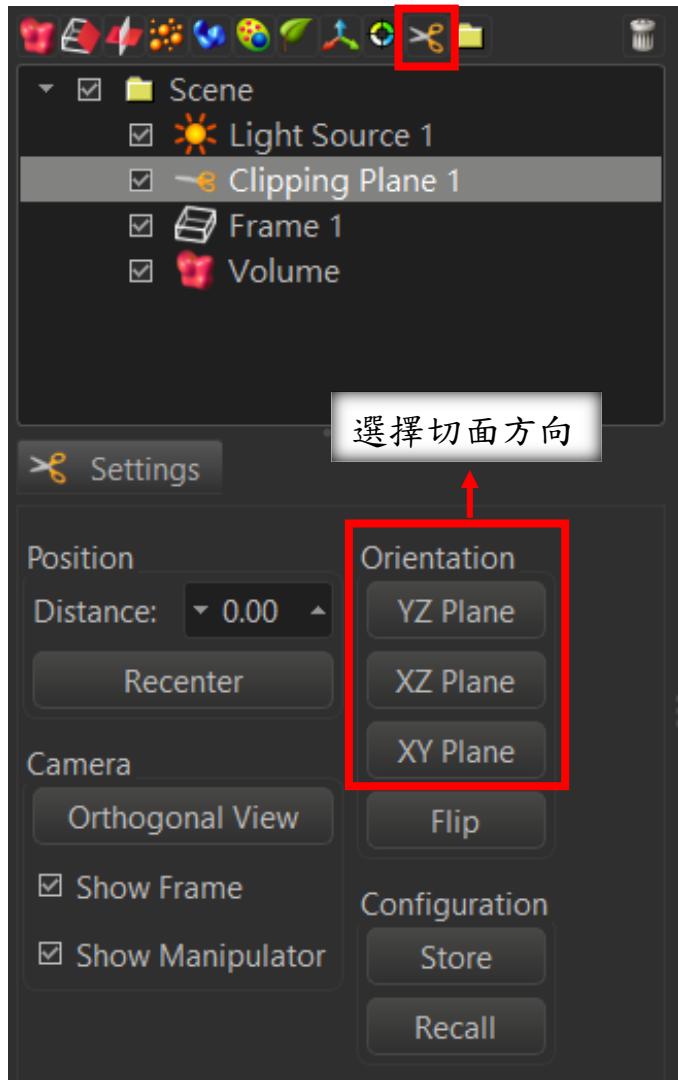
可調整:切面角度選擇

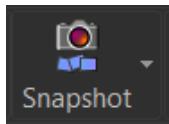
切面方向選擇



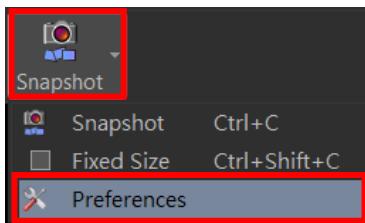


## Clipping Plane: 保留部分3D結構, 可觀察內部構造





## Snapshot: 擷取目前畫面影像並儲存



於 Preferences 內，可決定影像DPI, 影像格式, 存檔位置.....等

Preferences

System  
Display  
Loading  
Calculation  
Time  
3D View  
Creation Parameters  
Vantage Plots  
Statistics  
Statistical Tests  
**Snapshot**  
CustomTools  
Beta  
L 設定影像DPI  
Update  
Data Collection  
3D Cursor  
Annotate  
Arena  
Advanced

**Snapshot**

Save

Size:  
 Window  
 Fixed    Width: ▾ 1000 px ▾    Height: ▾ 1000 px ▾  
DPI: ▾ 300.00 ▾

Save as type: TIFF Image (\*.tif) ▾

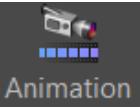
Copy to Clipboard  
 Save to File  
 Transparent Background  
 Open Saved File in default Image Viewer

Image Output Directory  
 Source Image Directory  
 Always Prompt User  
 Custom:   
Open Output Directory

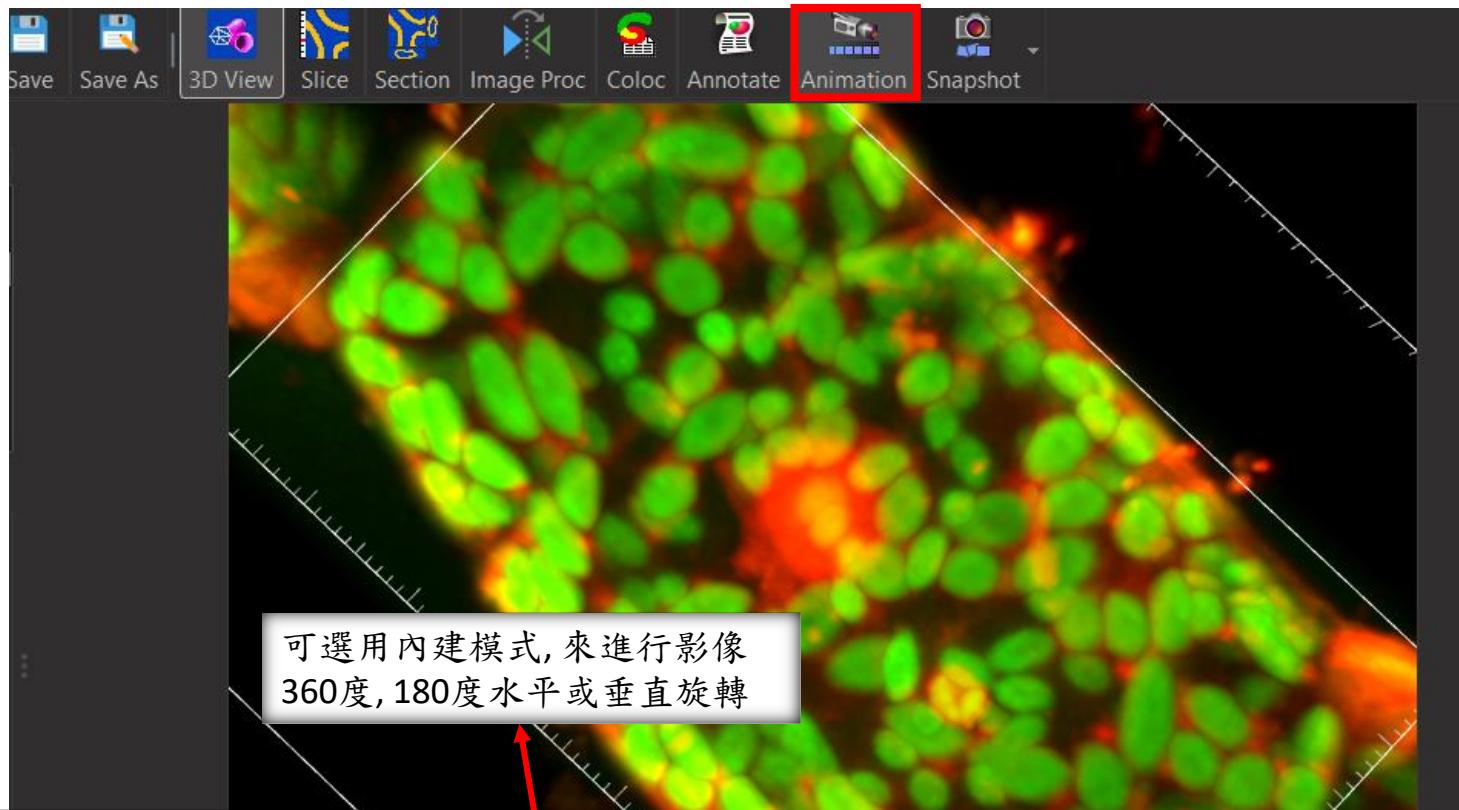
設定擷取影像大小  
Window: 同目前軟體影像視窗大小  
Fixed: 自行設定長x寬大小

設定影像儲存格式: TIFF, JPEG, PNG

檔案儲存位置  
Source Image Directory: 儲存至與原來影像相同之資料夾  
Always Prompt User: 跳出視窗自行指定  
Custom: 拍照前先自行指定檔案儲存位置



## Animation : 影片製作, 可自行錄製影片檔案



可自行調整影像呈現方式, 點選Add加入Key Frame, 可將目前所呈現之影像加入影片中, 也可Delete, Modify刪除或修改Key Frame

