Field 🔺

Connectivity

ImageSize NumObjects 8 1

PixelldxList

Parameters

Stats

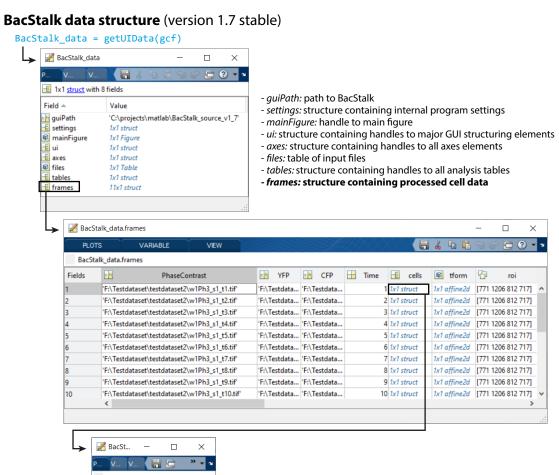
Handles

1x52 cell

1x1 struct

52x1 struct

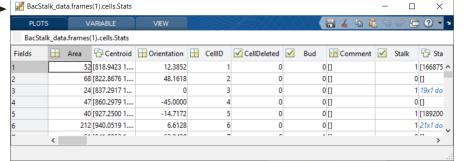
1x52 struct



- PhaseContrast, YFP, CFP: dynamic columns created during assignment of channels; containing corresponding file names
- Time: dynamic column created during metadata-assignment (containing time information for each frame in this case)
- cells: structure to single cell masks and measurements
- tform: Matlab affine2d object containing frame registration information relative to previous frame
- roi: region of interest for this frame [x y width height]



- Parameters: structure containing user-defined cell detection parameters used for this frame - Stats: structure containing single cells measurements
- Handles: structure containing handles to graphical representation of each cell



List of single cell measurements (listed are only those which are not available through the BacStalk GUI)

- Centroid: cell centroid coordinates (px)
- Stalkldx: pixel indices of stalk (starting at stalk attachment point)
- StalkCoordinates: coordinates of stalk (px), corresponding to Stalkldx
- CellMedialAxisIdx: pixel indices of medial axis (starting at cell pole)
- CellMedialAxisCoordinates: coordinates of medial axis (px), corresponding to CellMedialAxisIdx
- CellOutlineldx: pixel indices of cell outline
- CellOutlineCoordinates: coordinates of cell outline (px)
- MedialAxisIntensity_ChX: mean intensity profile along medial axis (as measured along CellMediaAxisIdx) in ch X
- MedialAxisIntensity_max_ChX: max intensity profile along medial axis (as measured along CellMediaAxisIdx) in ch X
- StalkIntensity_ChX: intensity profile of stalk (as measured along StalkIdx) in Ch X