Using matlab code to quantify colocalization

1. First, copy all the .m files into the folder containing the .tiff files that you want to quantify
2. In matlab, set this folder as your working directory
3. Type into the matlab command line:

concat\_automate(‘name of tiff file right before the group number’, ‘name for saving resulting histogram files and workspace’, ‘name of probe using wavelength 647 eg. ‘nos’, ‘name of probe using 565 eg. ‘eGFP’, ‘channel containing probe used to mark germ plasm eg. c01 or c02’, ‘wavelenght of probe used to mark germplasm eg. 647’, first index(usually 1), last index(usually 30), ‘wavelength of other probe’ eg. 565)

eg.

tiff Filename = ‘2012-11-28, Pnos-cycB1(1a), nos-647, EGFP-565 gp 1\_c01’

whose histograms are to be saved as :

Pnos-cycB1(1a), nos-647, EGFP-565, embryo(1…2…3 etc), particle-colocalization.jpg

code =

concat\_automate('2012-11-28, Pnos-cycB1(1a), nos-647, EGFP-565 gp ','Pnos-cycB1(1a), nos-647, EGFP-565, embryo', 'nos', 'EGFP','c01',647,1,30, 565)

Note:

1. All except the last four input arguments should be in single quotation marks ‘ ‘
2. You should have all Tiff filenames in sequential order. If there is a file missing with file no. between 1 and 30, the script will not run

Eg. If filename gp 2\_c01 is missing, the script will not work