run("Clear Results"); roiManager("reset");

dir1 = getDirectory("Choose Source Directory for Channel1 ");

dir2 = getDirectory("Choose Source Directory for Saving channel1\_Spot");

dir3 = getDirectory("Choose Destination Directory Saving Channel2\_PM"); l

ist1 = getFileList(dir1);

list2 = getFileList(dir2);

/// boite de dialogue pour croper

Dialog.create("Select Method");

Dialog.addCheckbox("Crop needed?", true);

Dialog.show();

Krop=Dialog.getCheckbox();

//setBatchMode(true);

//setBatchMode;

for (i=0; i <list1.length; i++) {

if (Krop==true) { setBatchMode(false); open(dir1+list1[i]); name1= getTitle(); rename("channel1");

selectWindow("channel1");

setTool("Polygone Selections");

run("Enhance Contrast", "saturated=0.35");

waitForUser("dessiner contour zone");

run("ROI Manager...");

roiManager("Add");

run("Clear Outside"); run("Measure"); }

else  
{ open(dir1+list1[i]); name1= getTitle(); rename("channel1");

}

{

run("8-bit");

//run("Auto Threshold", "method=MaxEntropy white");

run("Auto Local Threshold", "method=Niblack radius=25 parameter*1=0 parameter*2=0 white"); run("Despeckle");

run("Analyze Particles...", "size=100-Infinity pixel circularity=0.4-1.00 show=Outlines display exclude summarize in\_situ");

open(dir1+list1[i]);

name1= getTitle();

rename("channel2");

selectWindow("channel1");

run("Fill Holes");

setAutoThreshold("Default");

run("Threshold...");

setAutoThreshold("Default dark");

run("Create Selection");

saveAs("Tiff", dir2+list1[i]);

run("Close");

selectWindow("channel2");

run("Restore Selection"); run("Measure");

setBackgroundColor(6, 6, 6);

run("Clear", "slice");

roiManager("Select", 0);

run("Clear Outside");

run("Measure");

saveAs("Tiff", dir3+list1[i]);

run("Close");

run("Close All");

roiManager("Delete");

}

}

}