/*

QUANTIFICATION OF INTRACELLULAR AMYTRACKER SIGNAL

Definitions:

c1*= z-stack images.* ***c2****= Vimentin composite images.* ***c3****= Amytracker composite images.*

The threshold (*min* and *max*) is set manually for each experiment and subsequently applied to all images.

/*

```
//Automation
inputfile = "C:\\Input\\";
outputfile = "C:\\Output\\";
inputfilelist = getFileList(inputfile);
for(k=0;k<lengthOf(inputfilelist);k=k+2) {
                roiManager("Reset");
                open(inputfile + inputfilelist[k]);
                print(k);
                C2location=lastIndexOf(inputfilelist[k],"c2");
                print(C2location);
                name=inputfilelist[k];
                newname=replace(name, "c2", "c3");
                print(name);
                open(inputfile + newname);
                selectImage(name);


//Determination of cellular margins using vimentin signal
run("Set Scale...", "distance=1 known=0.65 pixel=1 unit=micrometer");
                run("Subtract Background...", "rolling=500");
                run("16-bit");
   setThreshold(min, max);
   run("Create Selection");
   roiManager("Add");
```

```
//Quantification of Amytracker signal
selectImage(newname);
    run("Set Scale...", "distance=1 known=0.65 pixel=1 unit=micrometer");
                    run("Subtract Background...", "rolling=50");
                    run("16-bit");
                    roiManager("Select", 0);
                    run("Clear Outside");
    roiManager("select", 0);
    setThreshold(min, max);
    run("Create Selection");
    run("Set Measurements...", "area mean integrated display redirect=None decimal=3");
run("Measure");
}
```