

### Data Selection Panel

Name of Image Matrix

Select Data ...

Name of Variable Matrix

Select Variables ...

This tutorial contains navigation buttons that enable you to move throughout the tutorial.

Please use the navigation buttons and not the page up/page down or arrow keys to navigate through the tutorials.

This is the 'Next' button. It takes you to the next frame or stop point.



This is the 'Previous' button. It takes you to the previous frame or stop point.



This is the 'Go to frame' button. It takes you to a specified frame.



This is the 'Go to URL' button. It takes you to a website link.



Press the 'Next' button below to start this tutorial.



### Data Selection Panel

Name of Image Matrix

imagedata\_dan01

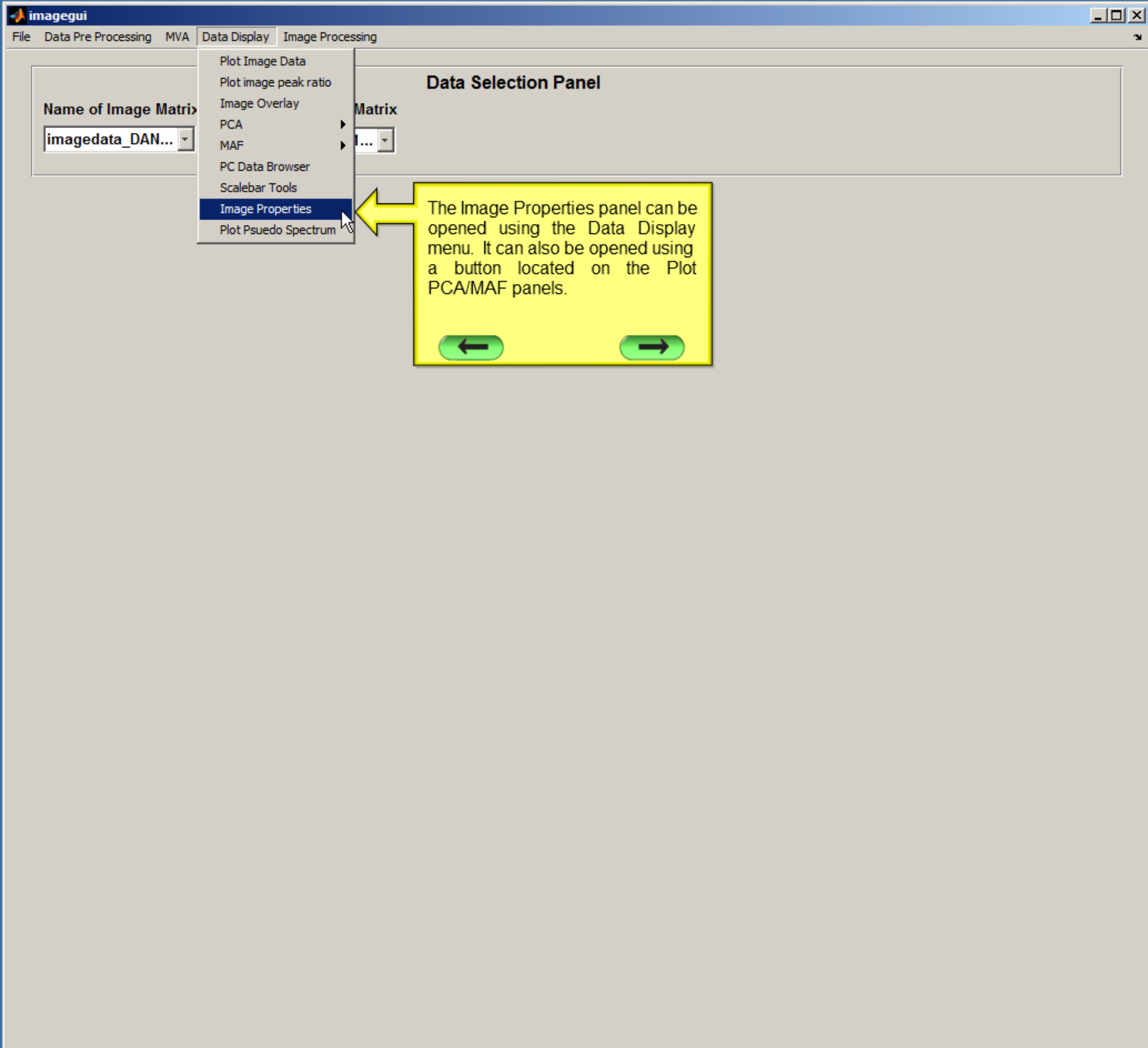
Name of Variable Matrix

exactmass\_dan01

This tutorial will demonstrate the Image Properties function.

The Image Properties Tools can be used with images generated using the Plot Image Data panel, Plot PCA Scores panel, Plot MAF Scores panel, and the Image Overlay panel.





Name of Image Matrix

imagedata\_DAN...

Plot Image Data

Plot image peak ratio

Image Overlay

PCA

MAF

PC Data Browser

Scalebar Tools

Image Properties

Plot Psuedo Spectrum


Data Selection Panel

Matrix

1...

The Image Properties panel can be opened using the Data Display menu. It can also be opened using a button located on the Plot PCA/MAF panels.



 imagegui

File

Data Pre Processing

MVA

Data Display

Image Processing

## Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

#### Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Label 3

#### Set Image size (microns)

X (horizontal)

Y (vertical)

☐ Use micron scale

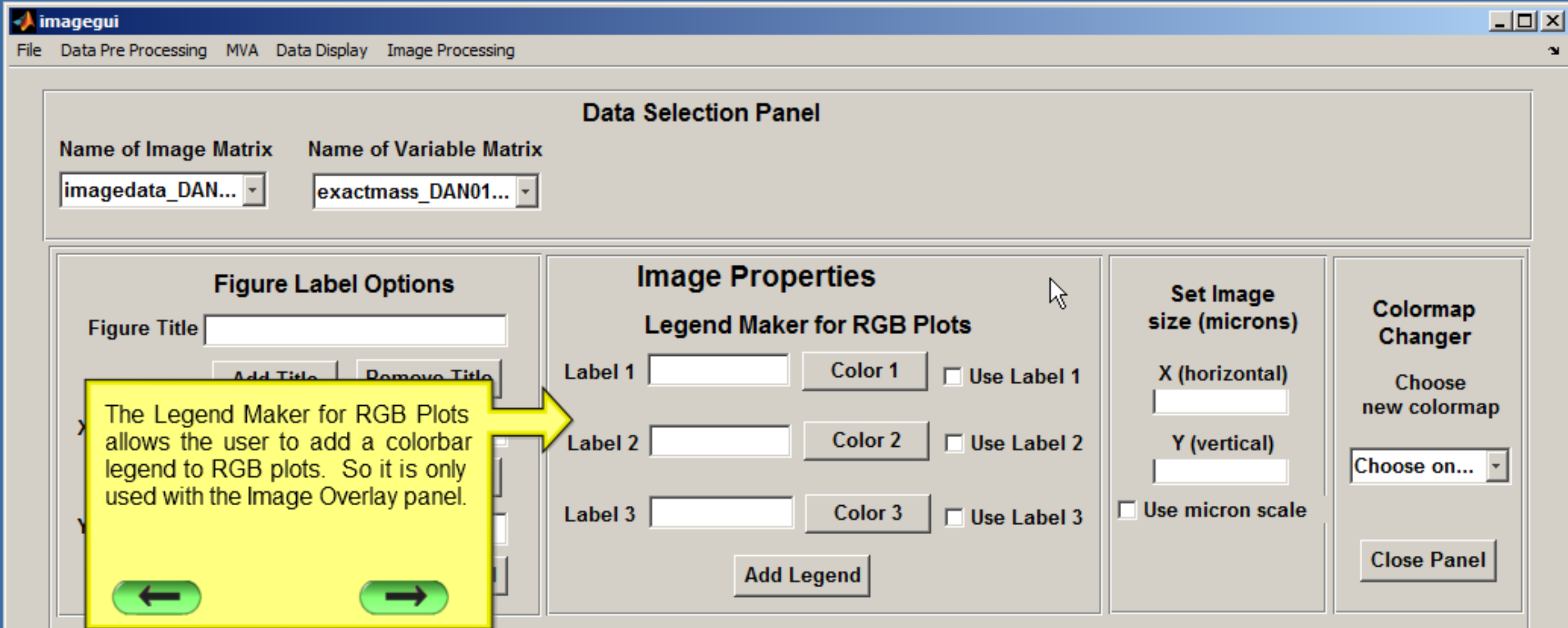
#### Colormap Changer

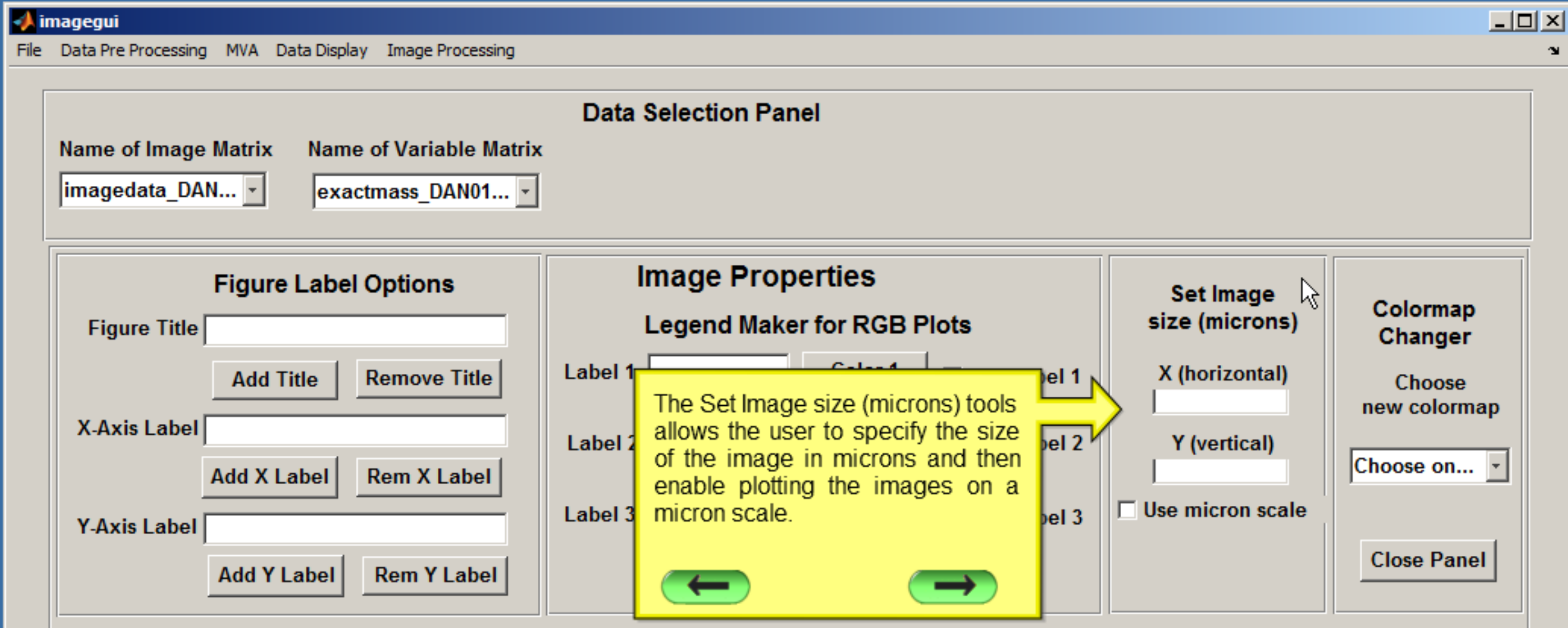
Choose new colormap

Choose on...

Close Panel

The figure label tools can be used on any image from the Plot Image Data, Plot PCA/MAF scores, or image overlay panels.





## Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

#### Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Label 3

Add

Set Image  
size (microns)

X (horizontal)

Y (vertical)  
scale

Colormap  
Changer

Choose  
new colormap

Choose on...

Close Panel

The Colormap Changer allows the user to change the colormap of the active image. It is useful for the Plot Image Data and Plot PCA/MAF Scores panels. It cannot be used with RGB overlays because it would override the color channels from the RGB plots.



Name of Image Matrix

imagedata\_DAN...

- Plot Image Data
- Plot image peak ratio
- Image Overlay
- PCA
- MAF
- PC Data Browser
- Scalebar Tools
- Image Properties**
- Plot Psuedo Spectrum

### Data Selection Panel

Matrix

1...

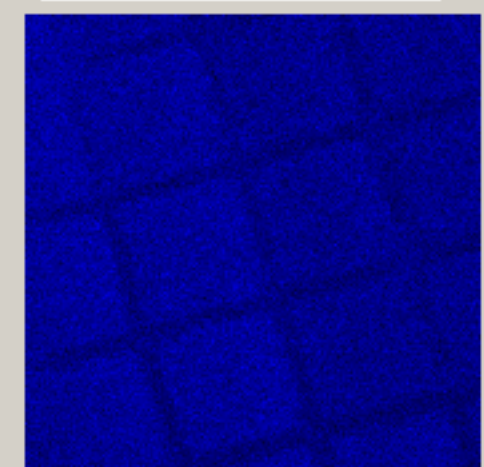
Let's first look at how to use the 'Image Properties' using an overlay image.

Once an image is created, choose 'Image Properties' from the 'Data Display' menu.

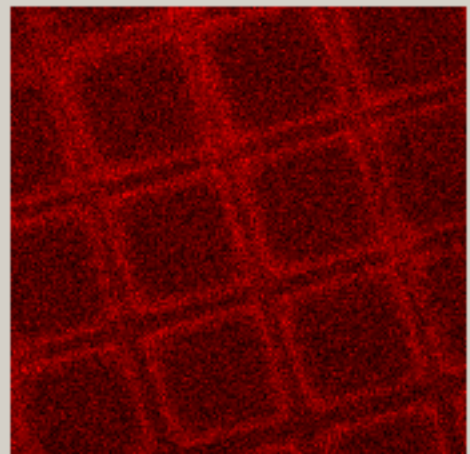


BLUE

squares



26.0054



Create R G B

Create R G

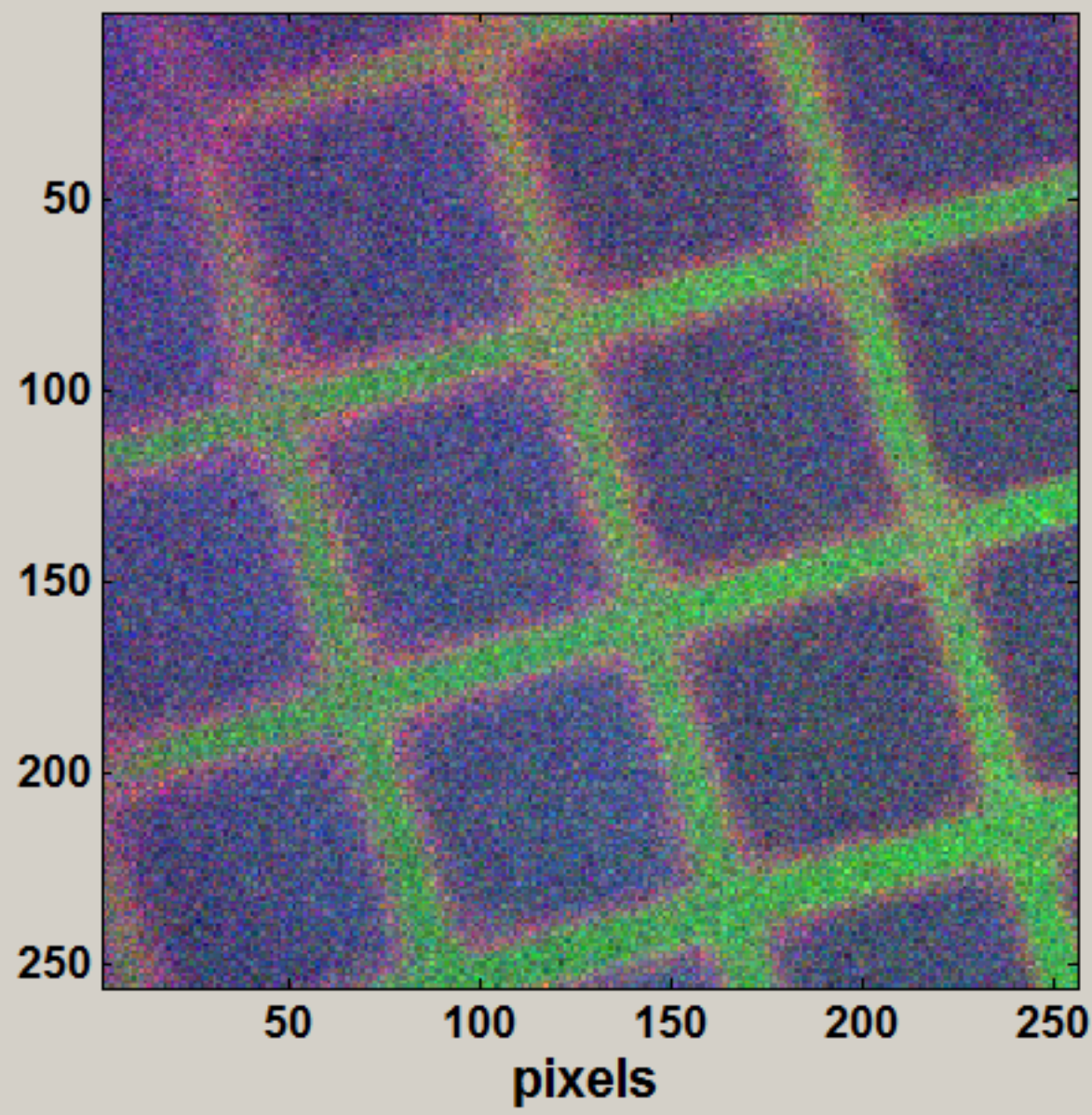
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



### Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

### Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

First let's change the title of the figure. Enter the desired text and press the 'Add Title' button.

Set Image size (microns)

X (horizontal)

Y (vertical)

☐ Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Add Legend

Create R G B

Create R G

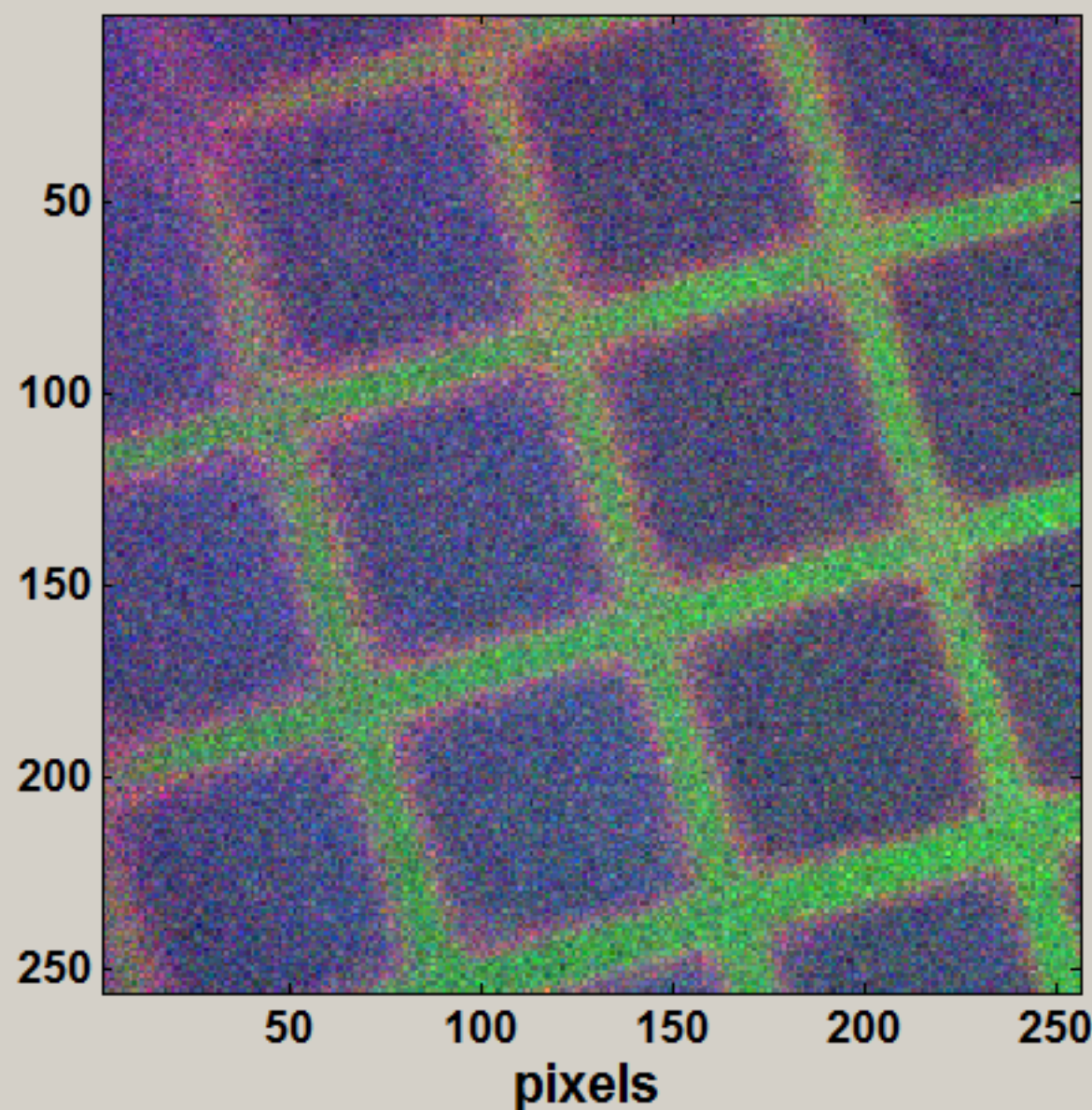
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



### Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

Y (vertical)

☐ Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

Create R G

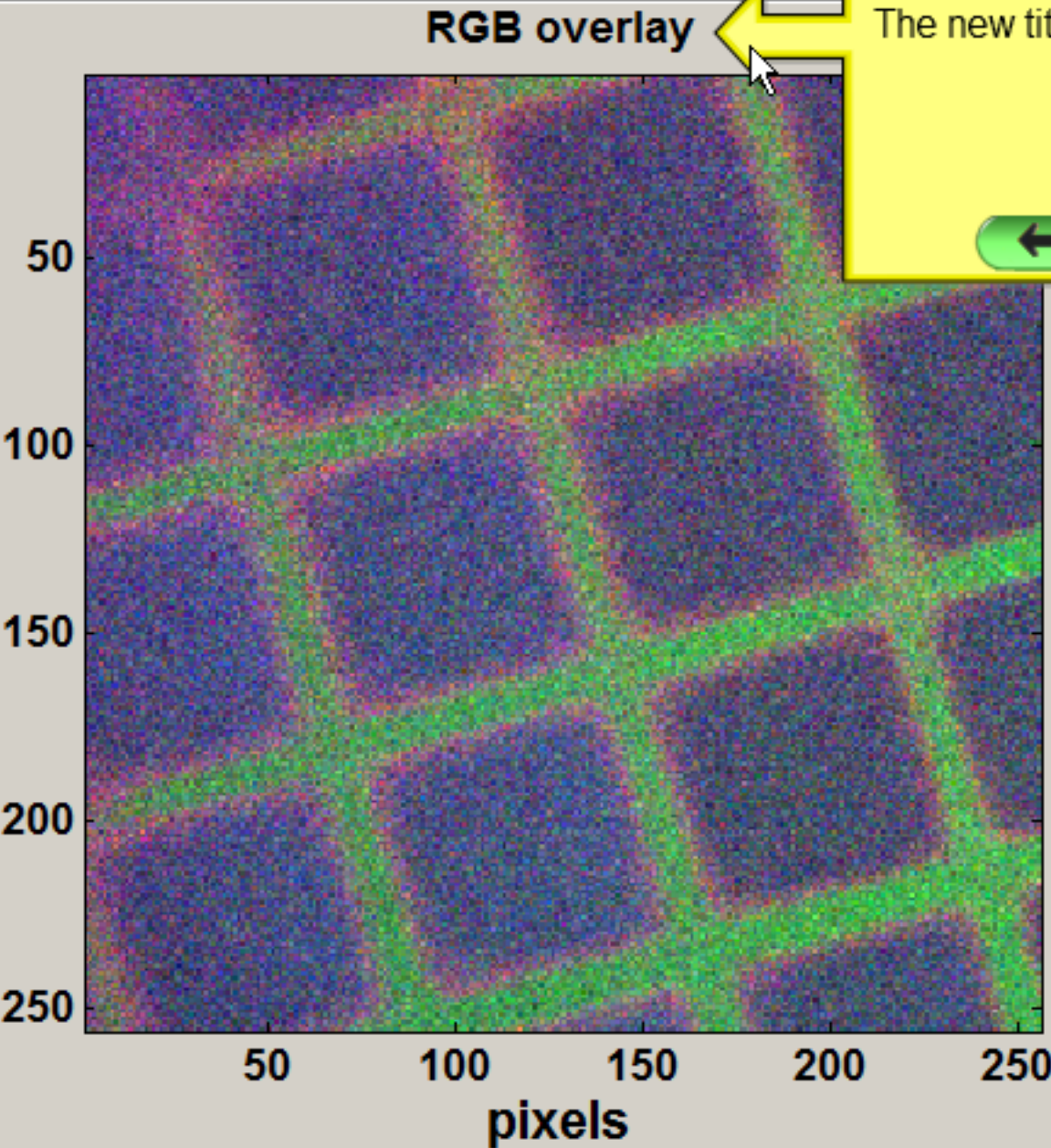
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



The new title is added.

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

### Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

The title can be removed by pressing the 'Remove Title' button.

Set Image size (microns)

X (horizontal)

Y (vertical)

☐ Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Add Legend

Create R G B

Create R G

Create R B

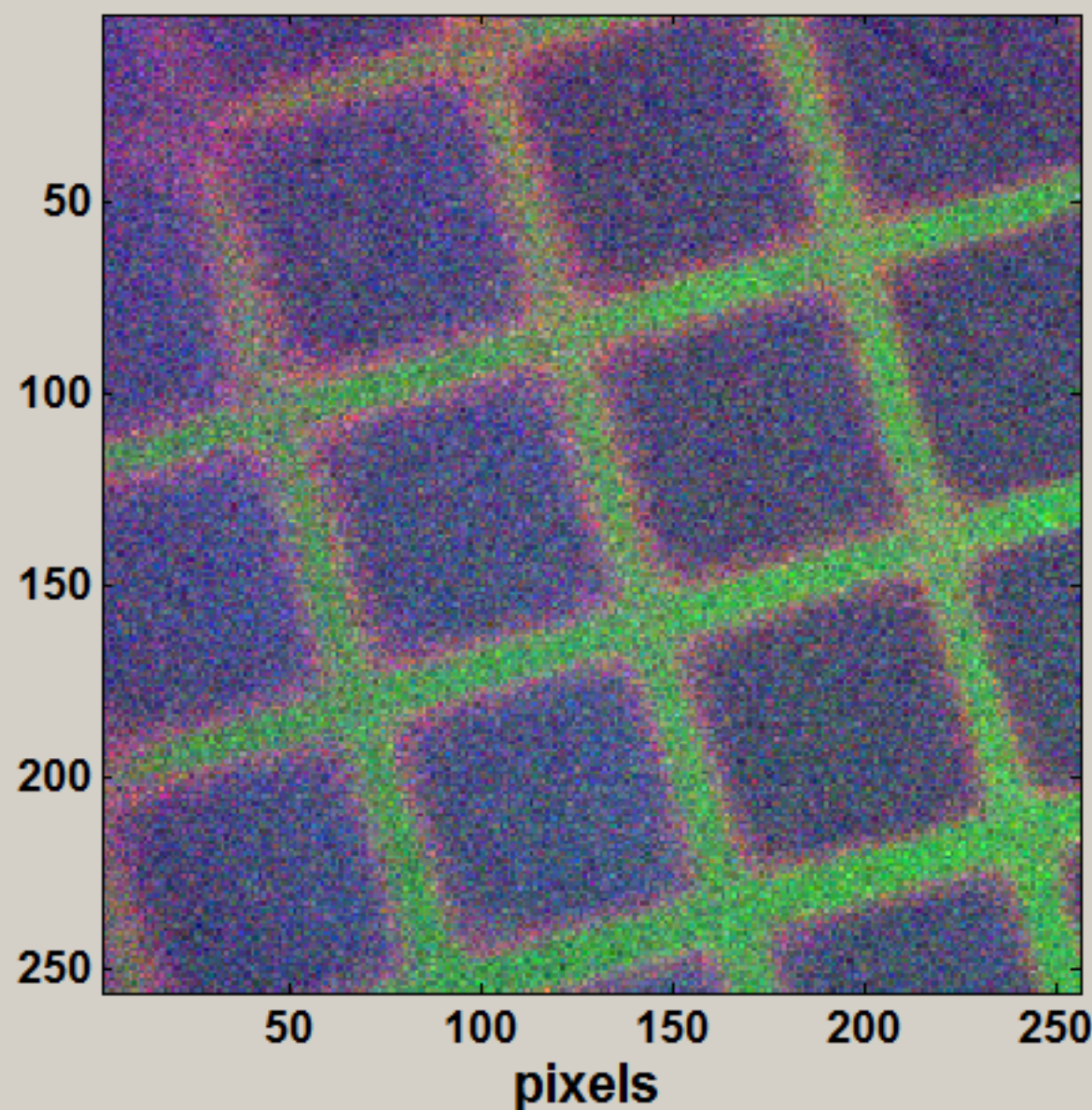
Create G B

Save Overlay

Make Ext

Close Panel

### RGB overlay



### Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

Data Selection Panel

Name of Image Matrix

Name of Variable Matrix

imagedata\_DAN...

exactmass\_DAN01...

Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

Y (vertical)

☐ Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

Create R G

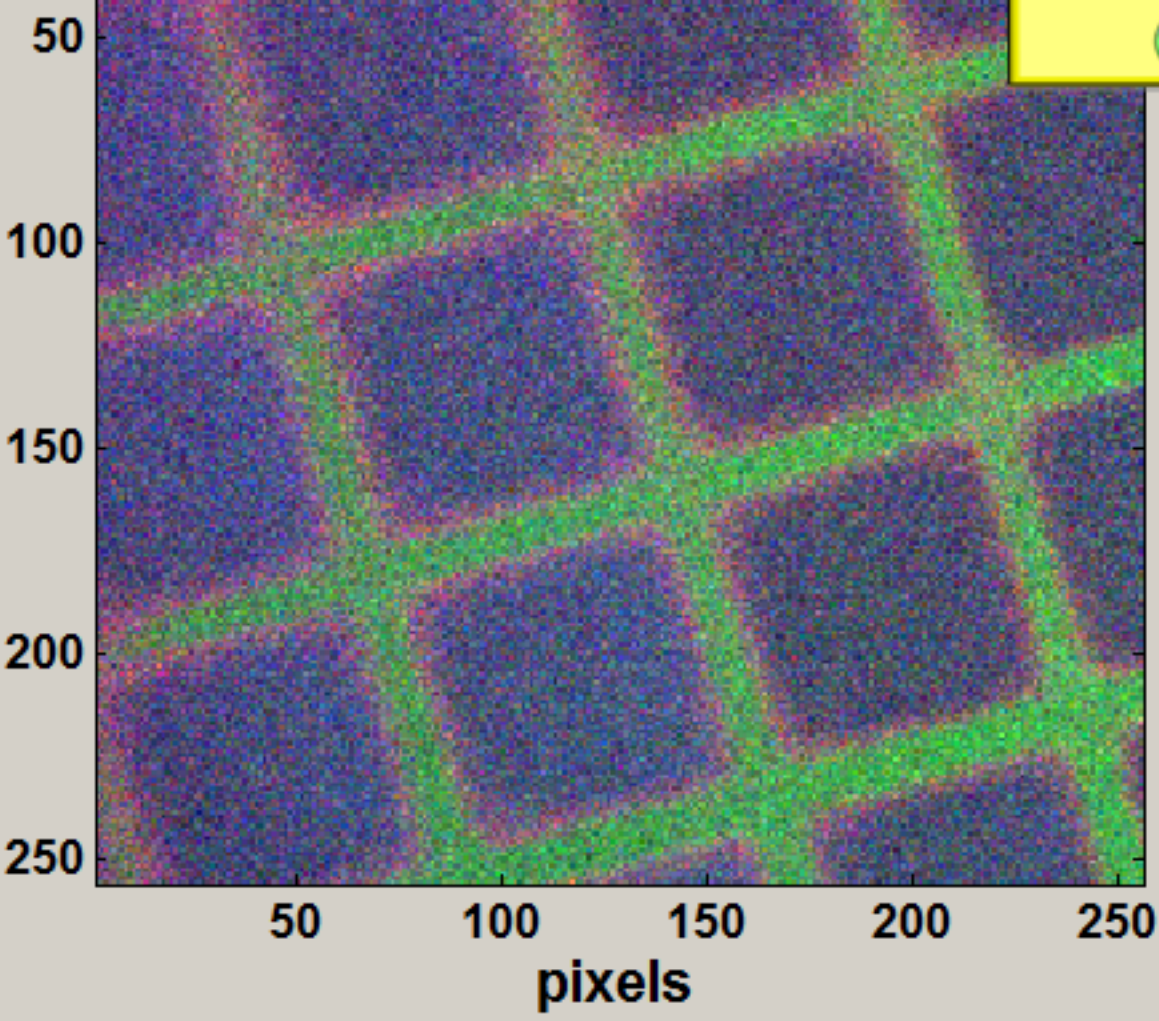
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



The title is gone.

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

## Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

## Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

## Image Properties

### Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Set Image  
size (microns)

X (horizontal)

Y (vertical)

☐ Use micron scale

Colormap  
Changer

Choose  
new colormap

Choose on...

Close Panel

The X and Y axis labels can also be modified the same way. Let's remove the X axis label by pressing the corresponding 'Remove X Label' button.



Create R G B

Create R G

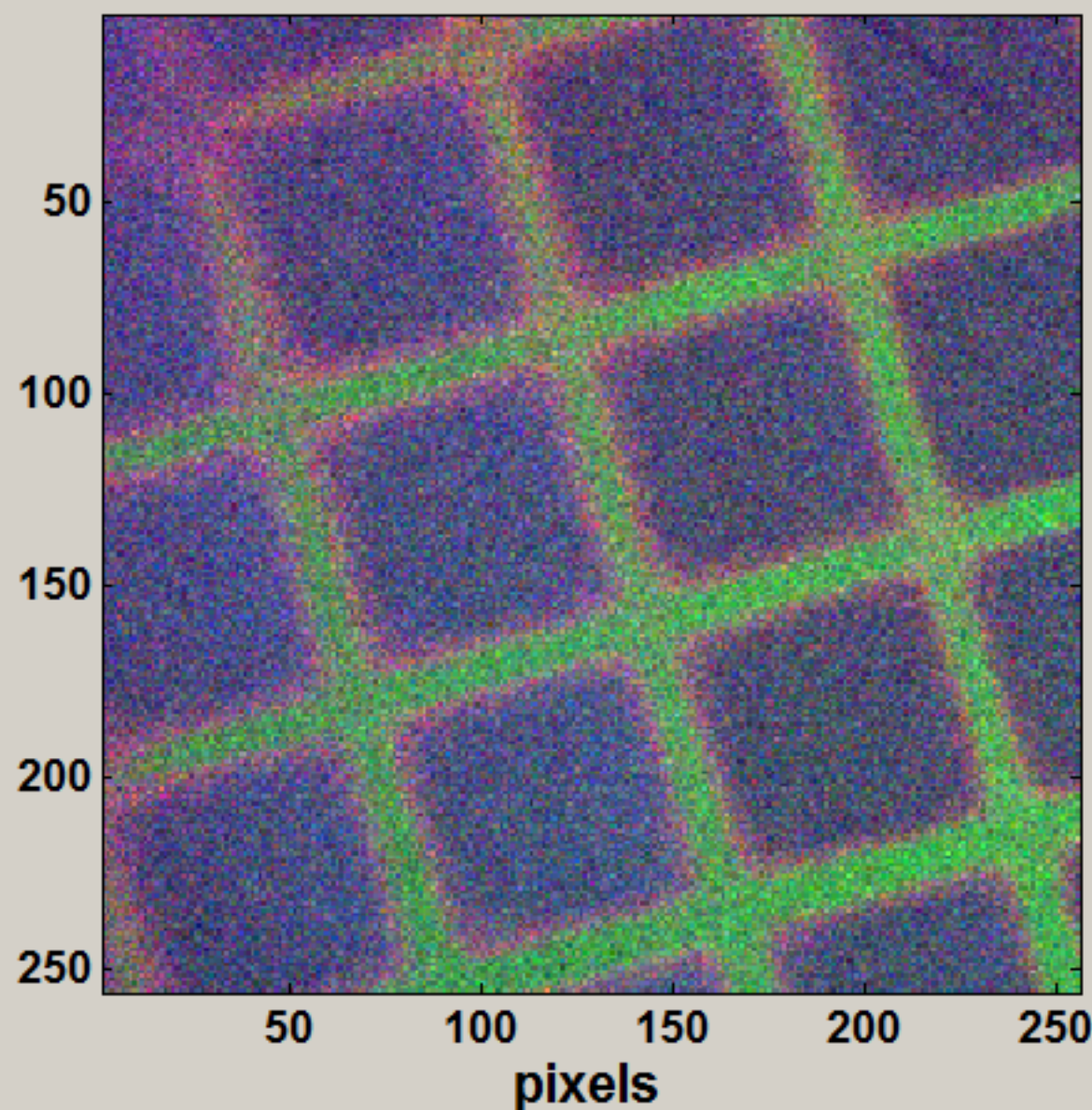
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



## Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

## Data Selection Panel

Name of Image Matrix  
imagedata\_DAN...

Name of Variable Matrix  
exactmass\_DAN01...

### Figure Label Options

Figure Title

X-Axis Label

Y-Axis Label

### Image Properties

#### Legend Maker for RGB Plots

Label 1   ☐ Use Label 1

Label 2   ☐ Use Label 2

Label 3   ☐ Use Label 3

#### Set Image size (microns)

X (horizontal)

Y (vertical)

☒ Use micron scale

#### Colormap Changer

Choose new colormap

Create R G B

Create R G

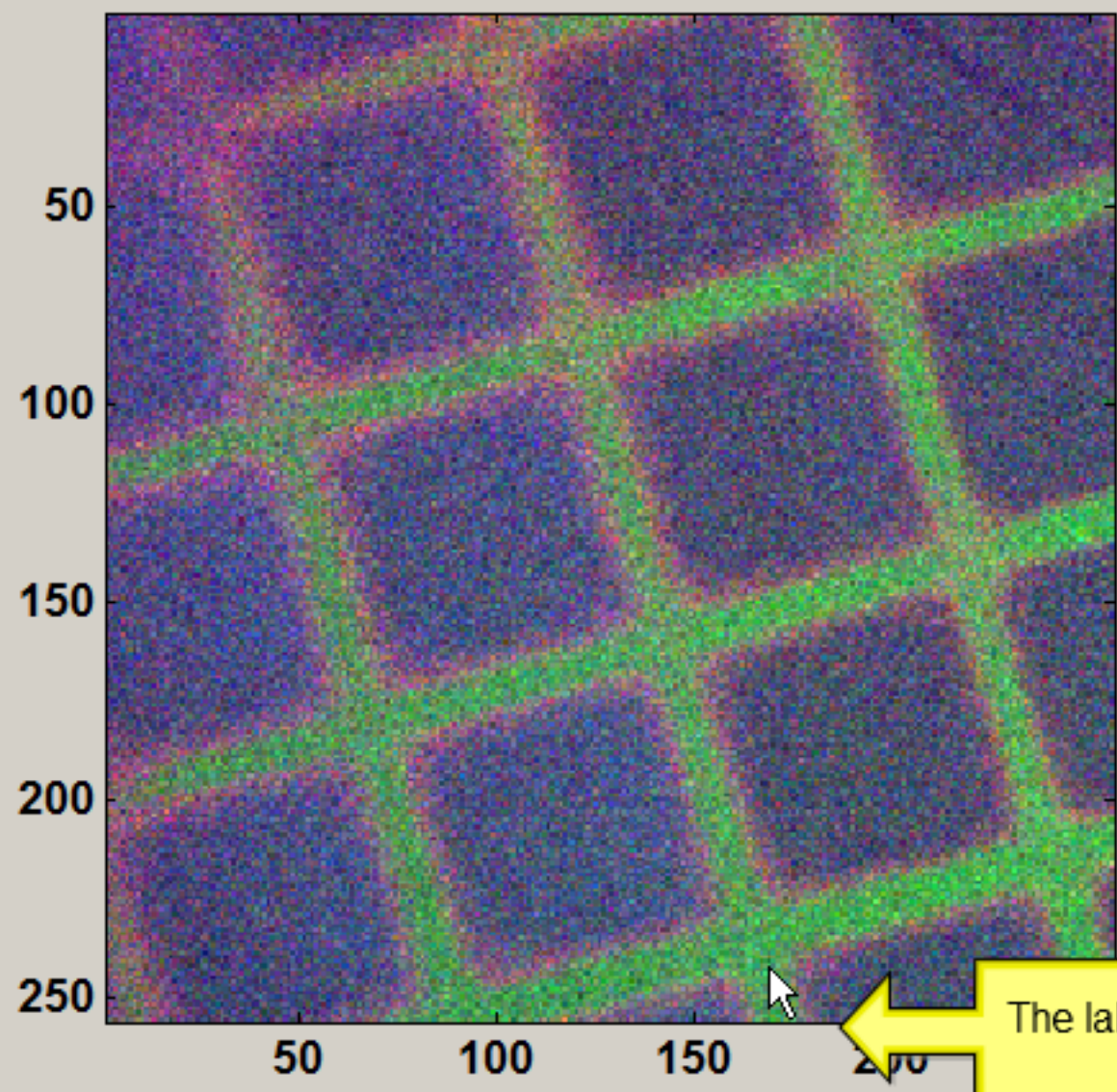
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



### Scalebar Maker

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Scalebar color

The label is removed.



### Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

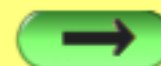
#### Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Now let's change the image so it is plotted on a micron scale. First enter the correct micron dimensions for X and Y and then check the 'Use micron scale' box.



#### Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☒ Use micron scale

#### Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

Create R G

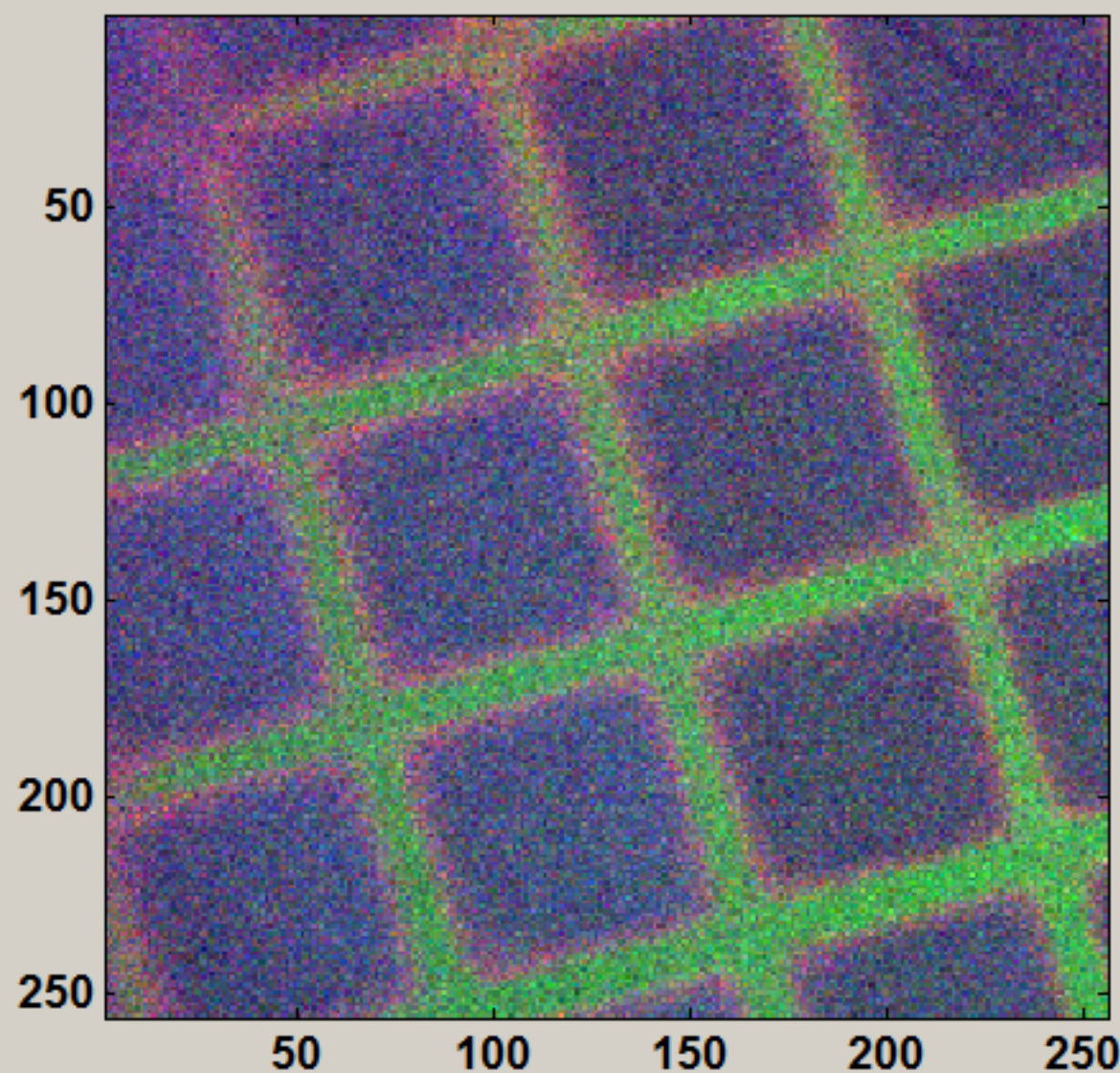
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



### Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☒ Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

Create R G

Create R B

Create G B

Save Overlay

Make Ext

Close Panel

To update the figure we have to recreate it.



100

150

200

250

50

100

150

200

250

Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☒ Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

Create R G

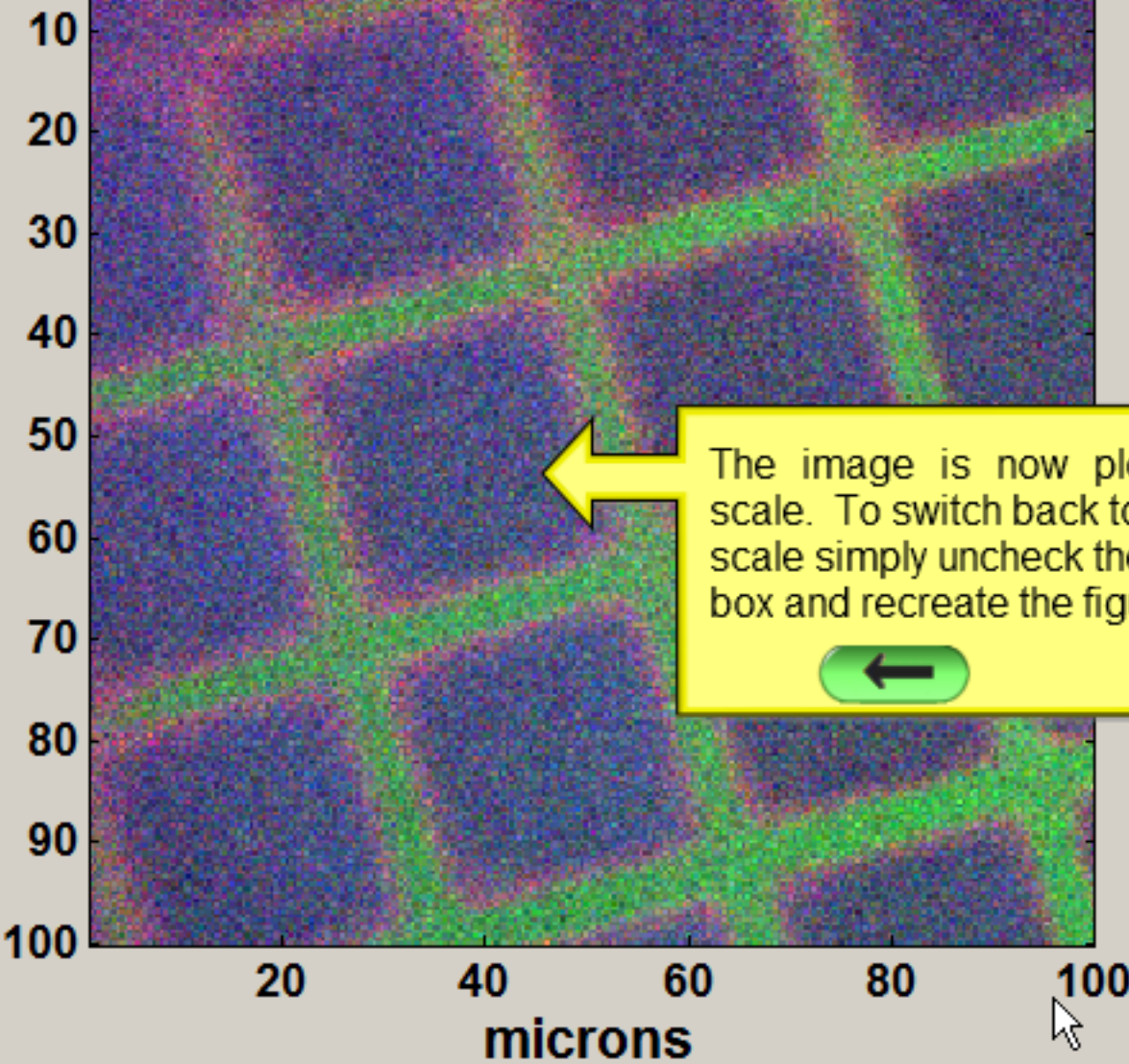
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

option

Scalebar color

Choose a color

Add Scale Bar

Close panel

## Data Selection Panel

Name of Image Matrix

Name of Variable Matrix

## Figure Label Options

Figure Title

Now let's add a legend to the RGB plot. First enter the labels you want to use in the labels in the boxes.

1 = red channel  
2 = green channel  
3 = blue channel

The colors default to red, green and blue, but you can change them if you want. However this is not recommended since it can result in complicated color mixing.

Check the boxes for the colors you want to use in the legend.



Create R B

Create G B

Save Overlay

Make Ext

Close Panel

## Image Properties

### Legend Maker for RGB Plots

Label 1	<input type="text" value="CN"/>	<input type="text" value="Color 1"/>	<input checked="" type="checkbox"/> Use Label 1
Label 2	<input type="text" value="Lines"/>	<input type="text" value="Color 2"/>	<input checked="" type="checkbox"/> Use Label 2
Label 3	<input type="text" value="Squares"/>	<input type="text" value="Color 3"/>	<input checked="" type="checkbox"/> Use Label 3

Add Legend

### Set Image size (microns)

X (horizontal)

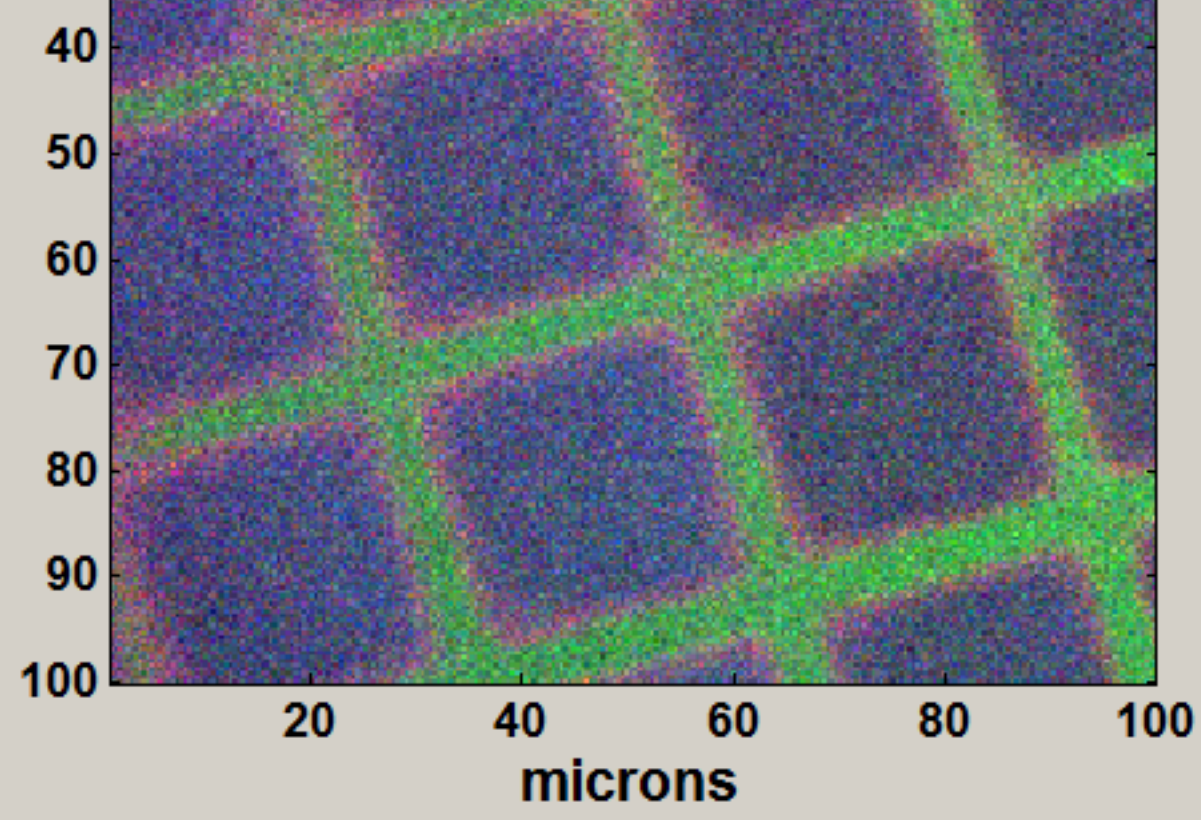
Y (vertical)

☒ Use micron scale

### Colormap Changer

Choose new colormap

Close Panel



## Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Scalebar color

Add Scale Bar

Close panel

Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Image Properties

Legend Maker for RGB Plots

Label 1

CN

Color 1

☒ Use Label 1

Label 2

Lines

Color 2

☒ Use Label 2

Label 3

Squares

Color 3

☒ Use Label 3

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

Colormap Changer

Choose new colormap

Choose on...

☒ Use micron scale

Close Panel

Press the 'Add Legend' button.

Add Legend

Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

Create R G B

Create R G

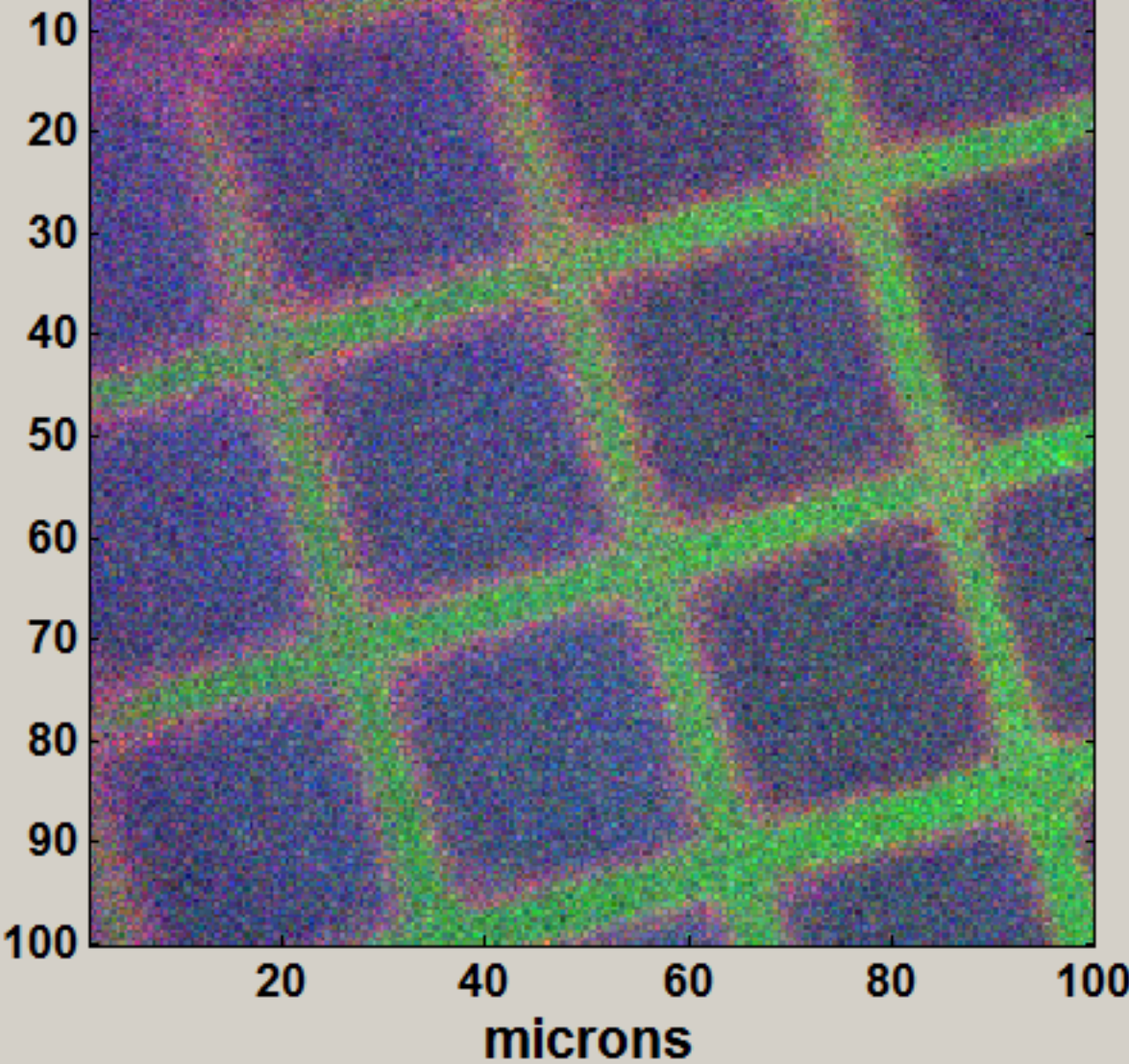
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

CN

Color 1

Use Label 1

Label 2

Lines

Color 2

Use Label 2

Label 3

Squares

Color 3

Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

Create R G

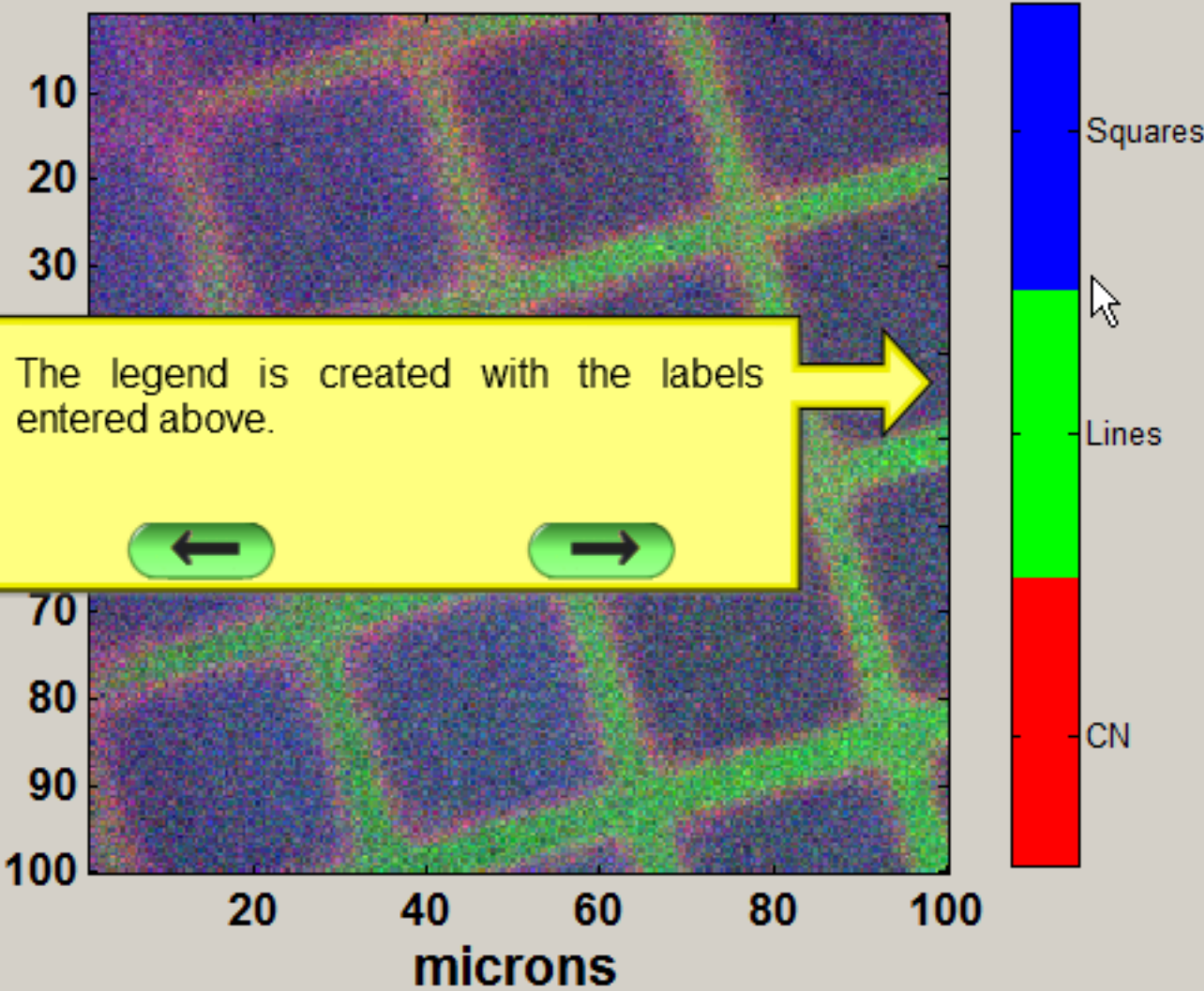
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

RGB overlay

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

CN

Color 1

☒ Use Label 1

Label 2

Lines

Color 2

☒ Use Label 2

Label 3

Squares

Color 3

☐ Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☒ Use micron scale

Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

Create R G

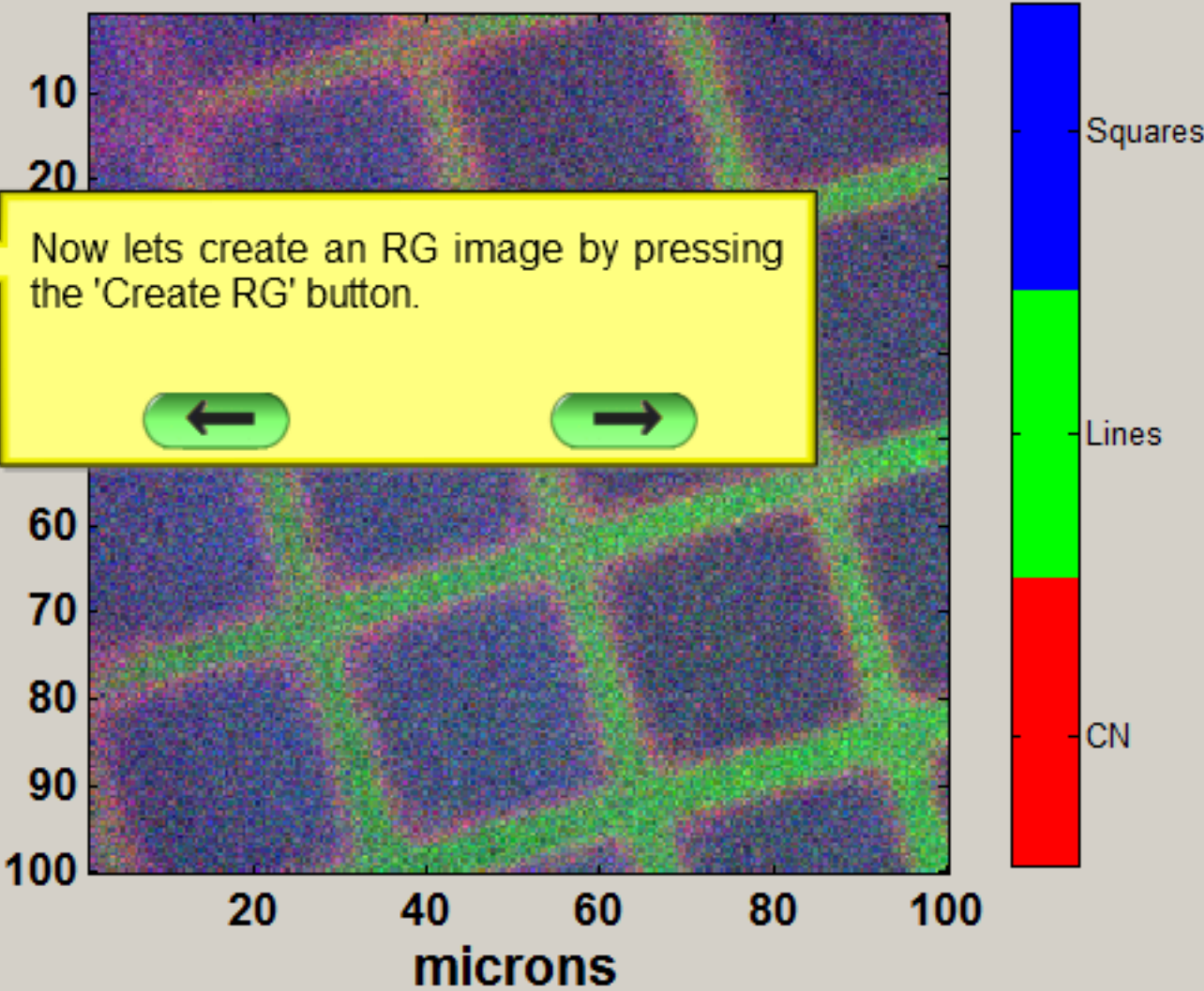
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

## Data Selection Panel

Name of Image Matrix  
imagedata\_DAN...

Name of Variable Matrix  
exactmass\_DAN01...

### Figure Label Options

Figure Title  
RGB overlay

Add Title Remove Title

X-Axis Label

Add X Label Rem X Label

Y-Axis Label

### Image Properties

#### Legend Maker for RGB Plots

Label 1 CN Color 1 ☒ Use Label 1

Label 2 Lines Color 2 ☒ Use Label 2

Label 3 Squares Color 3 ☐ Use Label 3

### Set Image size (microns)

X (horizontal)  
100

Y (vertical)  
100

### Colormap Changer

Choose new colormap

Choose on...

☒ Use micron scale

Close Panel

Uncheck the 'Use Label 3' and press the 'Add Legend' button.

Add Legend

Create R G B

Create R G

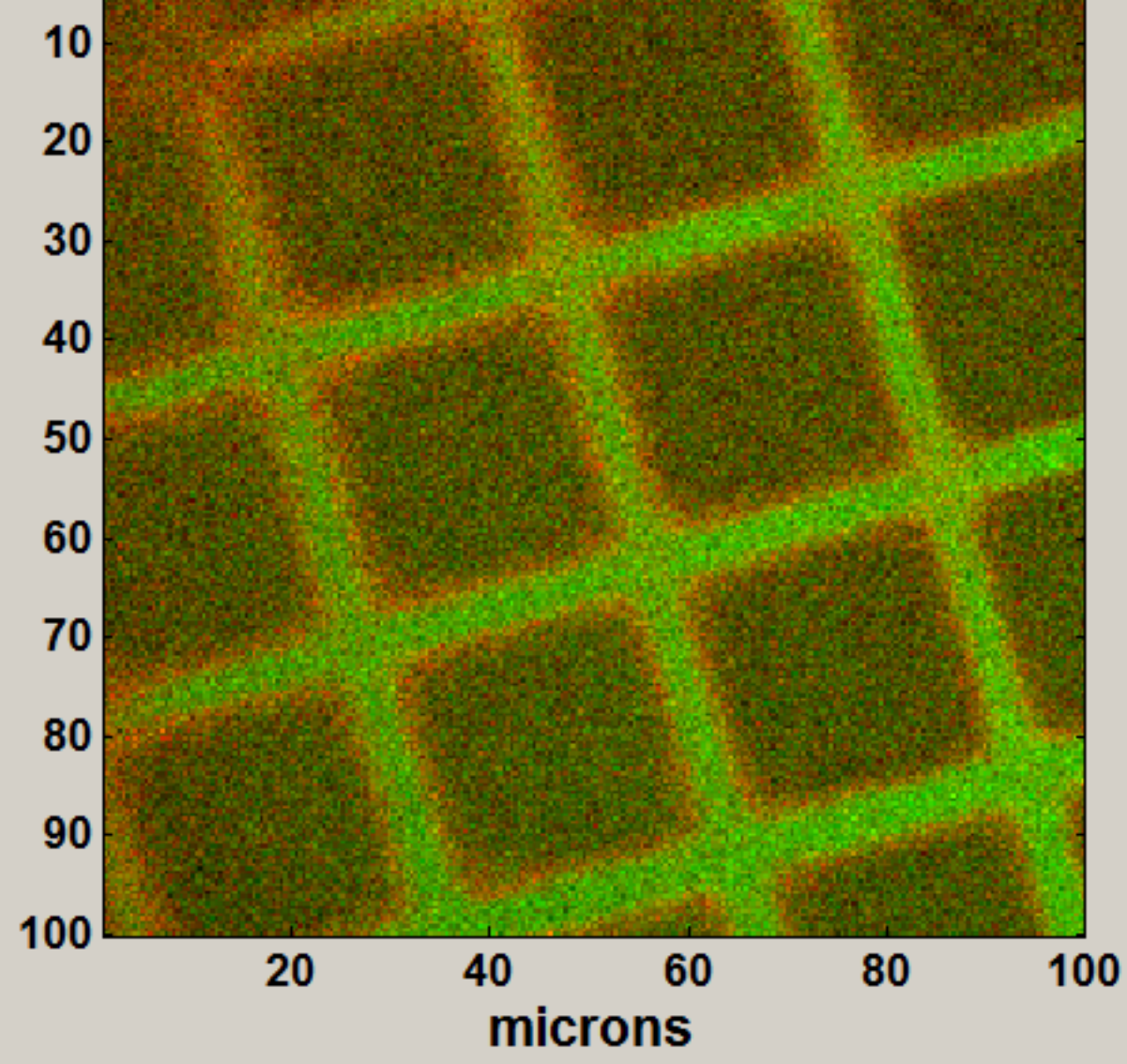
Create R B

Create G B

Save Overlay

Make Ext

Close Panel



### Scalebar Maker

Show Image Size

Image size (pixels)

X

Y

Image size (microns)

X

Y

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

### Data Selection Panel

Name of Image Matrix

imagedata\_dan01

Name of Variable Matrix

exactmass\_dan01

### Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

#### Legend Maker for RGB Plots

Legend Label 1

CN

Color 1

☒ Use In Legend

Legend Label 2

bars

Color 2

☒ Use In Legend

Legend Label 3

squares

Color 3

☐ Use In Legend

Add Legend

### Colormap Changer

Choose new colormap

Choose on...

Close Panel

Create R G B

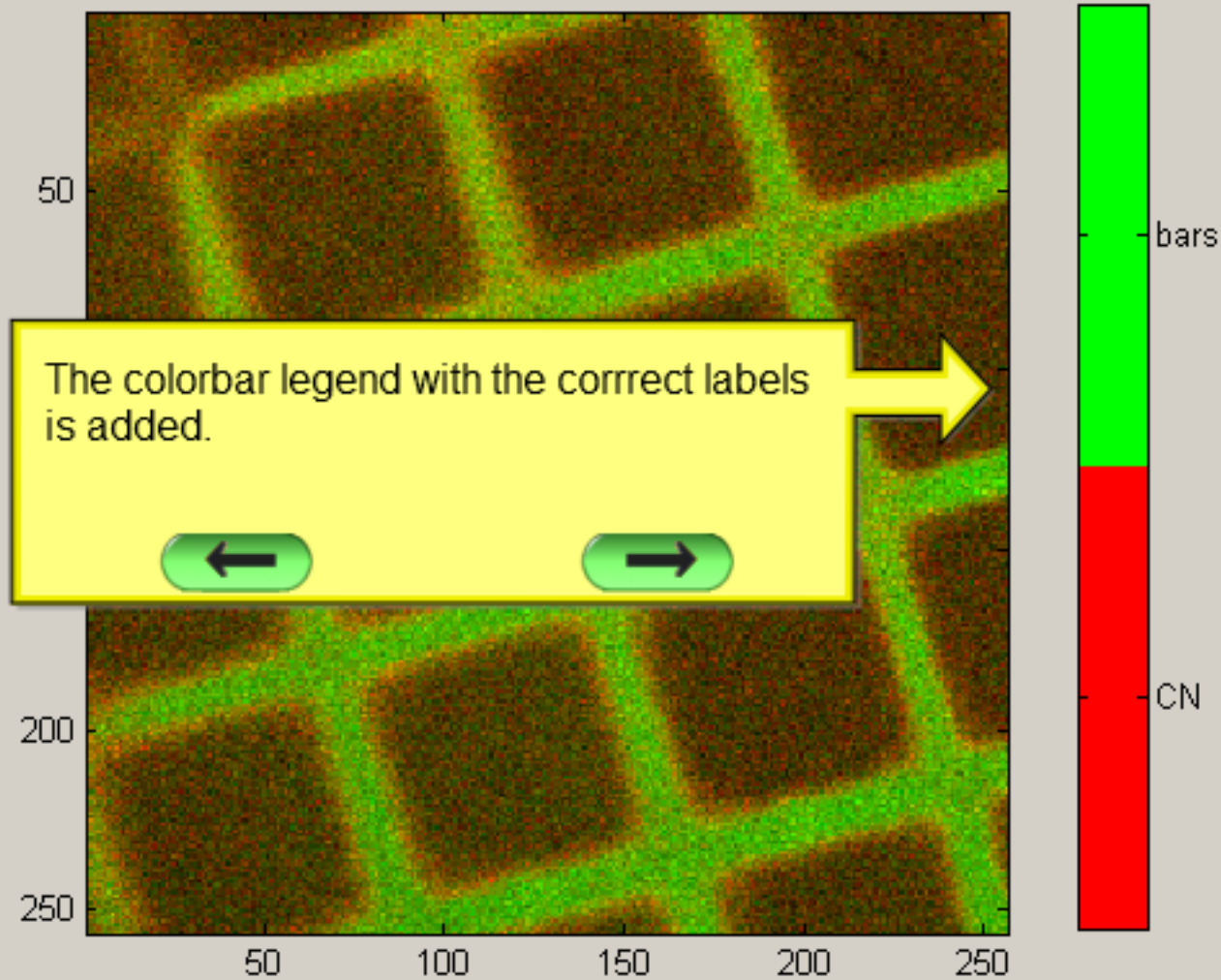
Create R G

Create R B

Create G B

Save Overlay

Close Panel



### Scalebar Maker

Image size (pixels)

Image size (microns)

Scalebar location

Choose an option

Scalebar color

Choose a color

Add Scale Bar

Close panel

### Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

#### Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

### Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☒ Use micron scale

### Colormap Changer

Choose new colormap

Choose on...

Close Panel

Load Selected Score

Scores Matrix:

PCA\_sco

PC To Plot:

1

Plot Options:

Traditional

Plot PCA Scores

Show Scalebar Tools Panel

Show Image Properties Panel

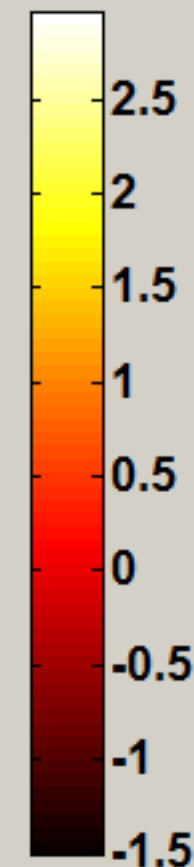
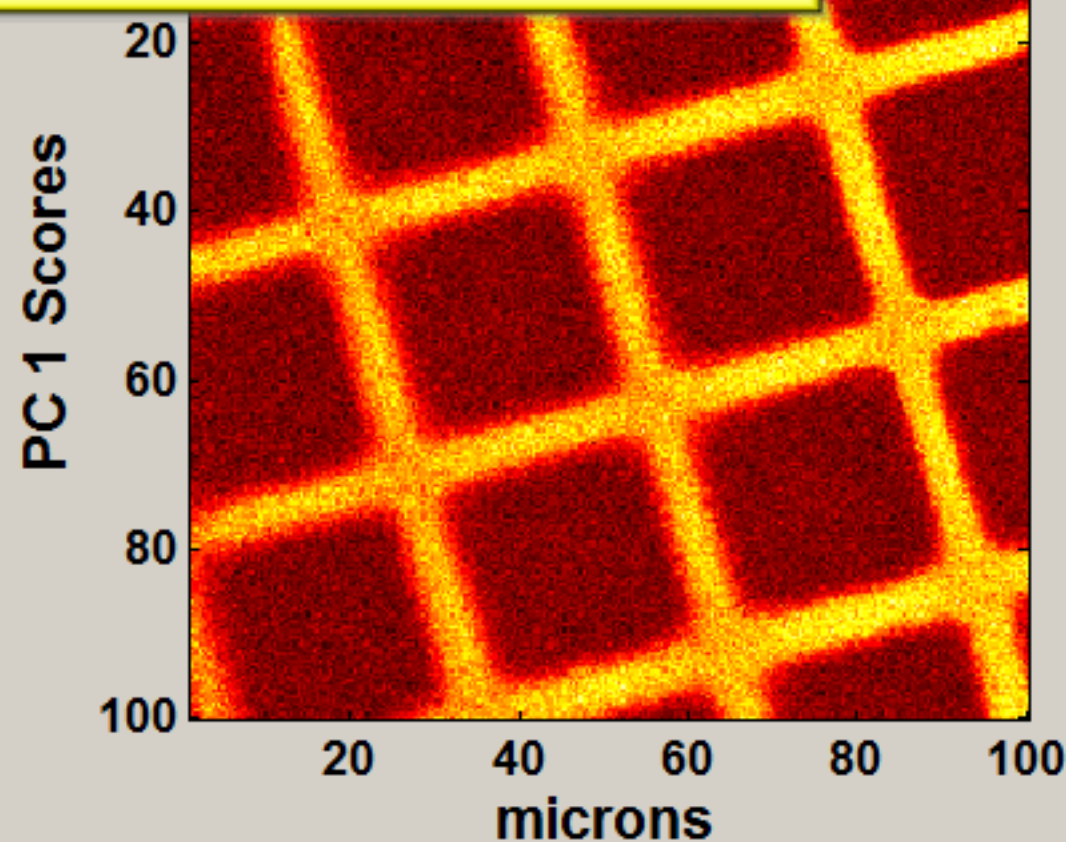
Save Score Image

Make Ext Figure

Add Score Image To Overlay List

Close Panel

Now let's learn about how to change the colormap. We will use the Plot PCA scores panel.



Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

Colormap Changer

Choose new colormap

Choose on...

- Choose one...
- Hot
- Jet
- Gray
- Cool
- red/green
- blue/yellow
- cyan/orange
- cyan/yellow
- pink/blue
- grayscale

The colormap changer can be used to change the current colormap of the figure.

Simply choose the color map you would like to use. He we will choose 'Jet'.



Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot: 1

Plot Options: Traditional

Plot PCA Scores

Show Scalebar Tools Panel

Show Image Properties Panel

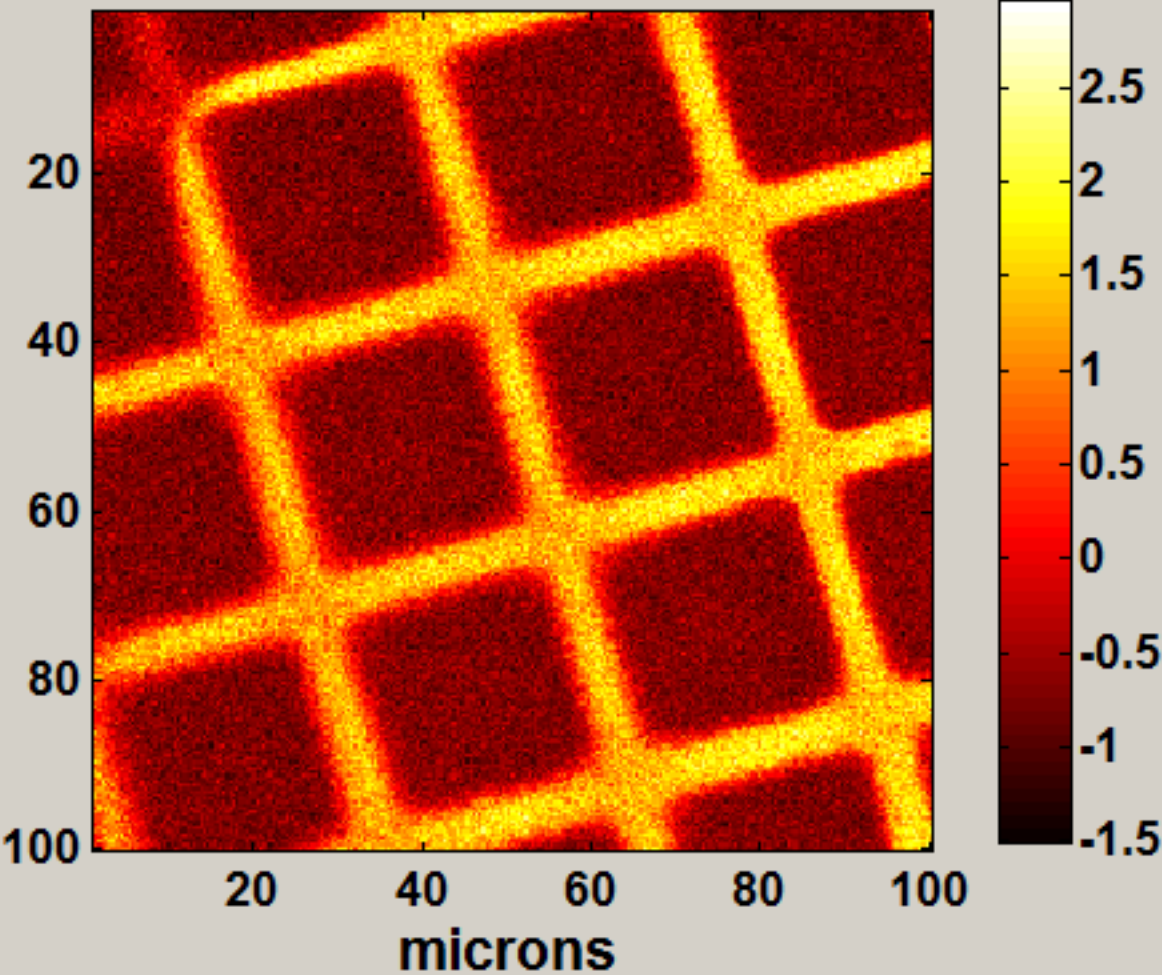
Save Score Image

Make Ext Figure

Add Score Image To Overlay List

Close Panel

PC 1 Scores



### Data Selection Panel

Name of Image Matrix  
imagedata\_DAN...

Name of Variable Matrix  
exactmass\_DAN01...

#### Figure Label Options

Figure Title   
Add Title Remove Title

X-Axis Label   
Add X Label Rem X Label

Y-Axis Label   
Add Y Label Rem Y Label

#### Image Properties

##### Legend Maker for RGB Plots

Label 1  Color 1 ☐ Use Label 1

Label 2  Color 2 ☐ Use Label 2

Label 3  Color 3 ☐ Use Label 3

Add Legend

##### Set Image size (microns)

X (horizontal)  
100

Y (vertical)  
100

☒ Use micron scale

##### Colormap Changer

Choose new colormap

Jet

Close Panel

Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot: 1

and the figure is automatically updated.



Show Scalebar Tools Panel

Show Image Properties Panel

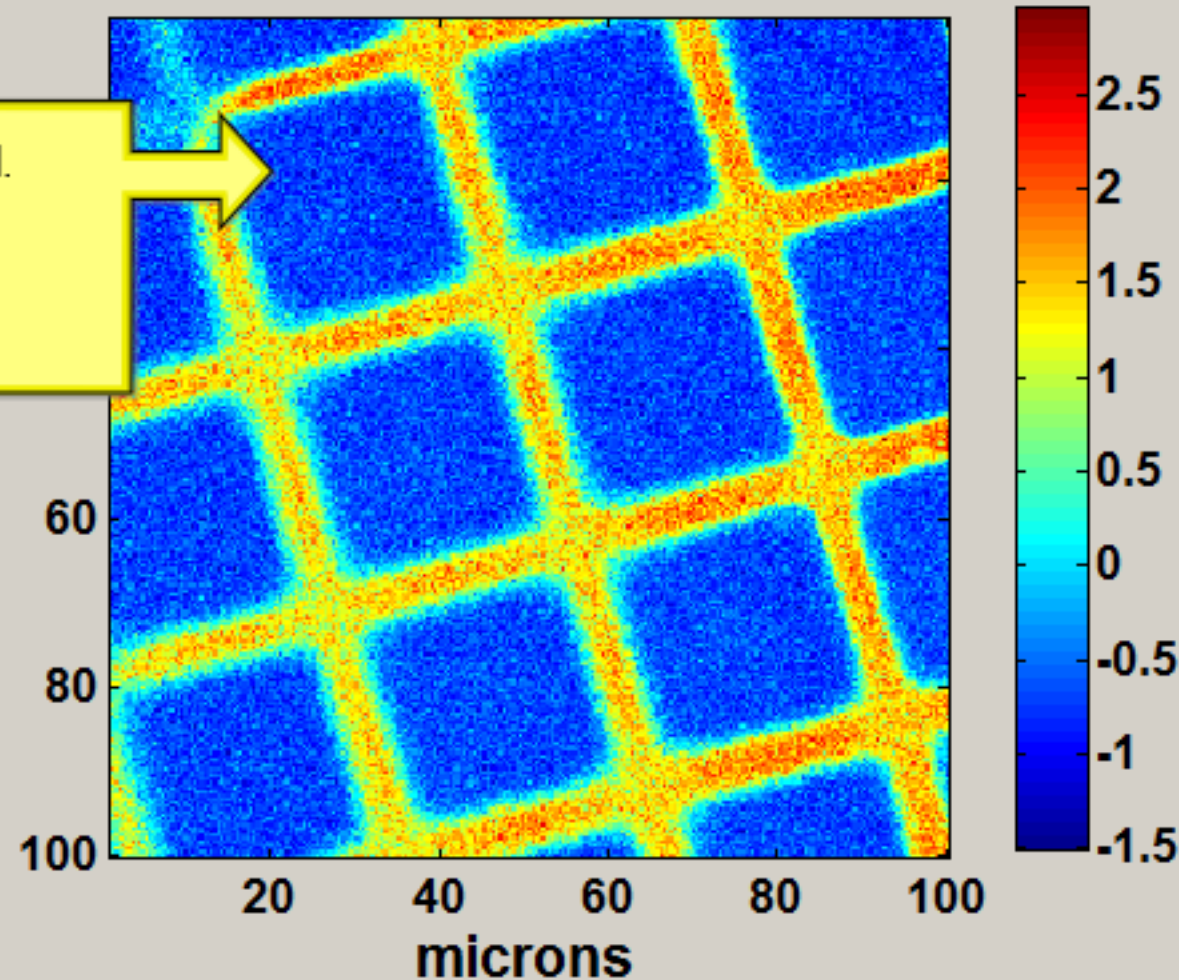
Save Score Image

Make Ext Figure

Add Score Image To Overlay List

Close Panel

PC 1 Score



## Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

## Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

## Image Properties

## Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3Set Image  
size (microns)

X (horizontal)

100

Y (vertical)

100

☒ Use micron scaleColormap  
ChangerChoose  
new colormap

Jet

Choose one...

Hot

Jet

Gray

Cool

red/green

blue/yellow

cyan/orange

cyan/yellow

pink/blue

grayscale

Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot:

1

Plot Options:

Traditional

Plot PCA Scores

Show Scalebar Tools Panel

Show Image Properties Panel

Save Score Image

Make Ext Figure

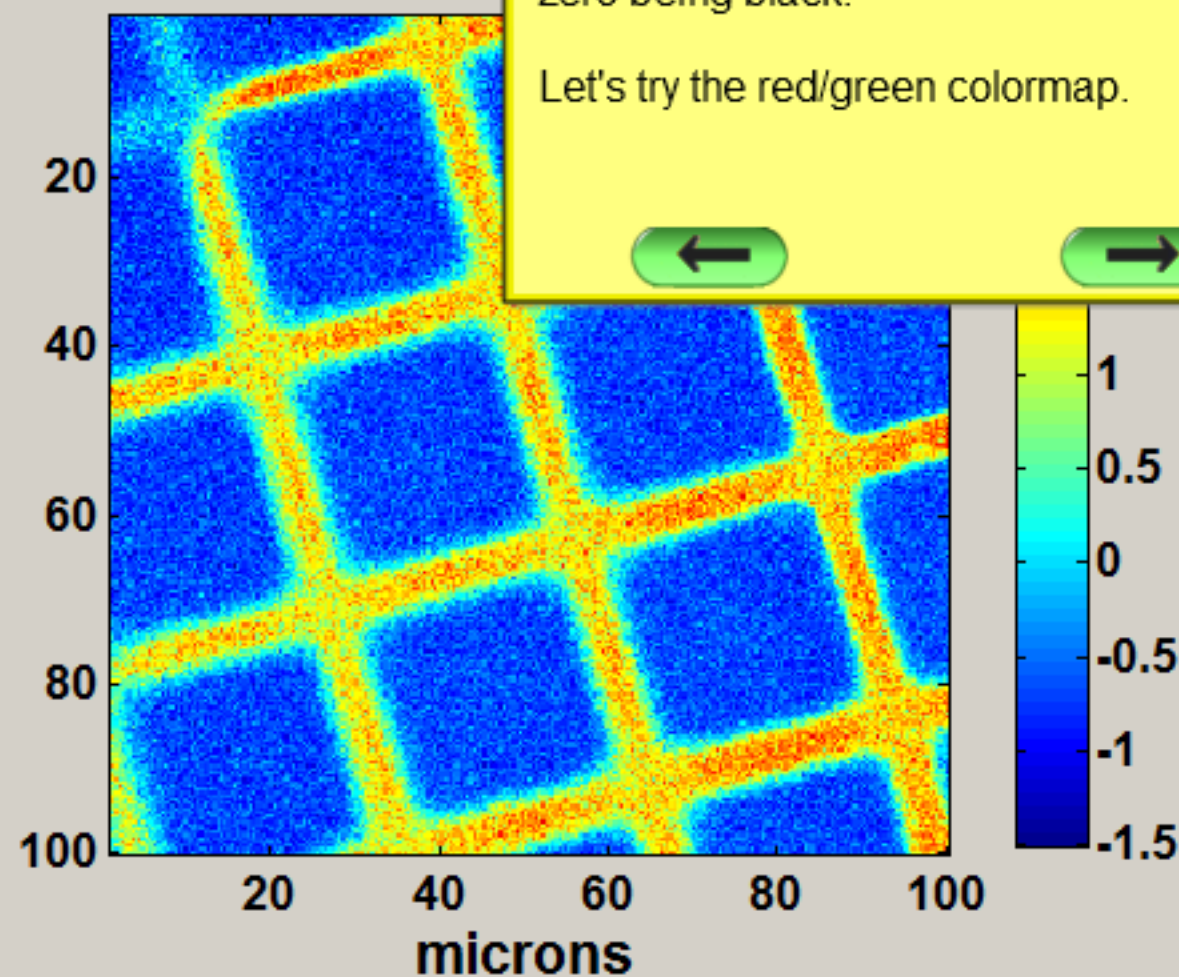
Add Score Image To Overlay List

Close Panel

The two color colormaps are particularly useful for score images. Score images have both positive and negative values so the two color colormaps use one color for positive and one color for negative with zero being black.

Let's try the red/green colormap.

PC 1 Scores



## Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

#### Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

#### Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☒ Use micron scale

#### Colormap Changer

Choose new colormap

red/green

Close Panel

Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot:

1

This color map clearly distinguishes the positive and negatives scores.



Show Scalebar Tools Panel

Show Image Properties Panel

Save Score Image

Make Ext Figure

Add Score Image To Overlay List

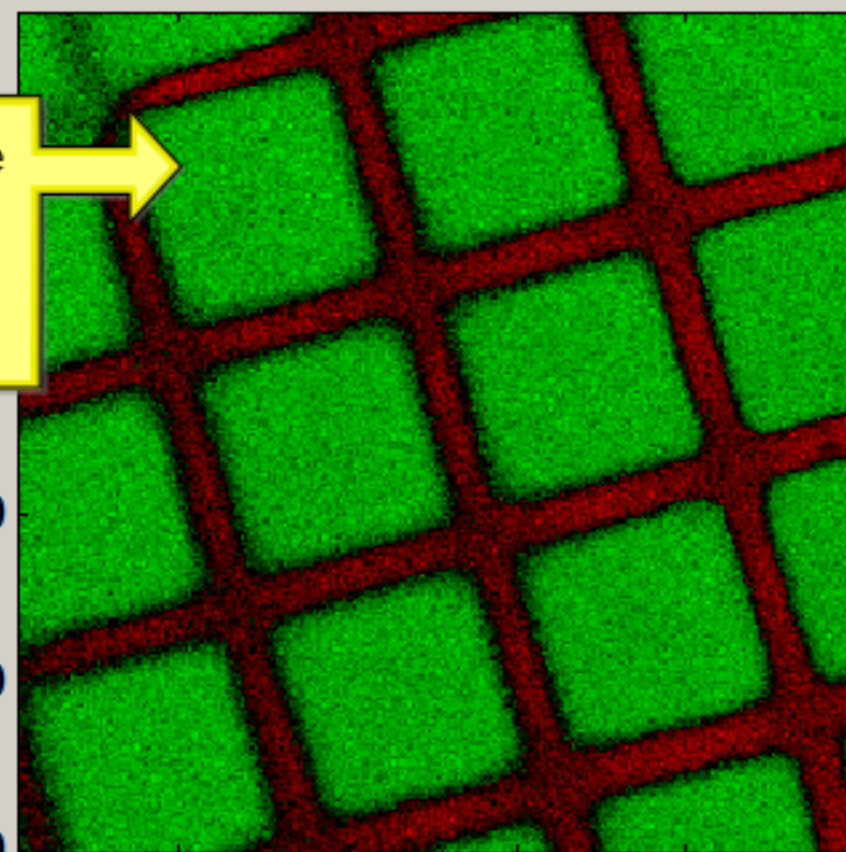
Close Panel

PC 1 Score

60

80

100



20

40

60

80

100

microns

2.5

2

1.5

1

0.5

0

-0.5

-1

-1.5

## Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

## Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

## Image Properties

## Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2Set Image  
size (microns)

X (horizontal)

100

Y (vertical)

100

☐ Use micron scaleColormap  
ChangerChoose  
new colormap

red/green

Close Panel

Now let's replot the scores using a pixel scale.

Uncheck the 'Use micron scale' box.



Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot:

1

Plot Options:

Traditional

Plot PCA Scores

Show Scalebar Tools Panel

Show Image Properties Panel

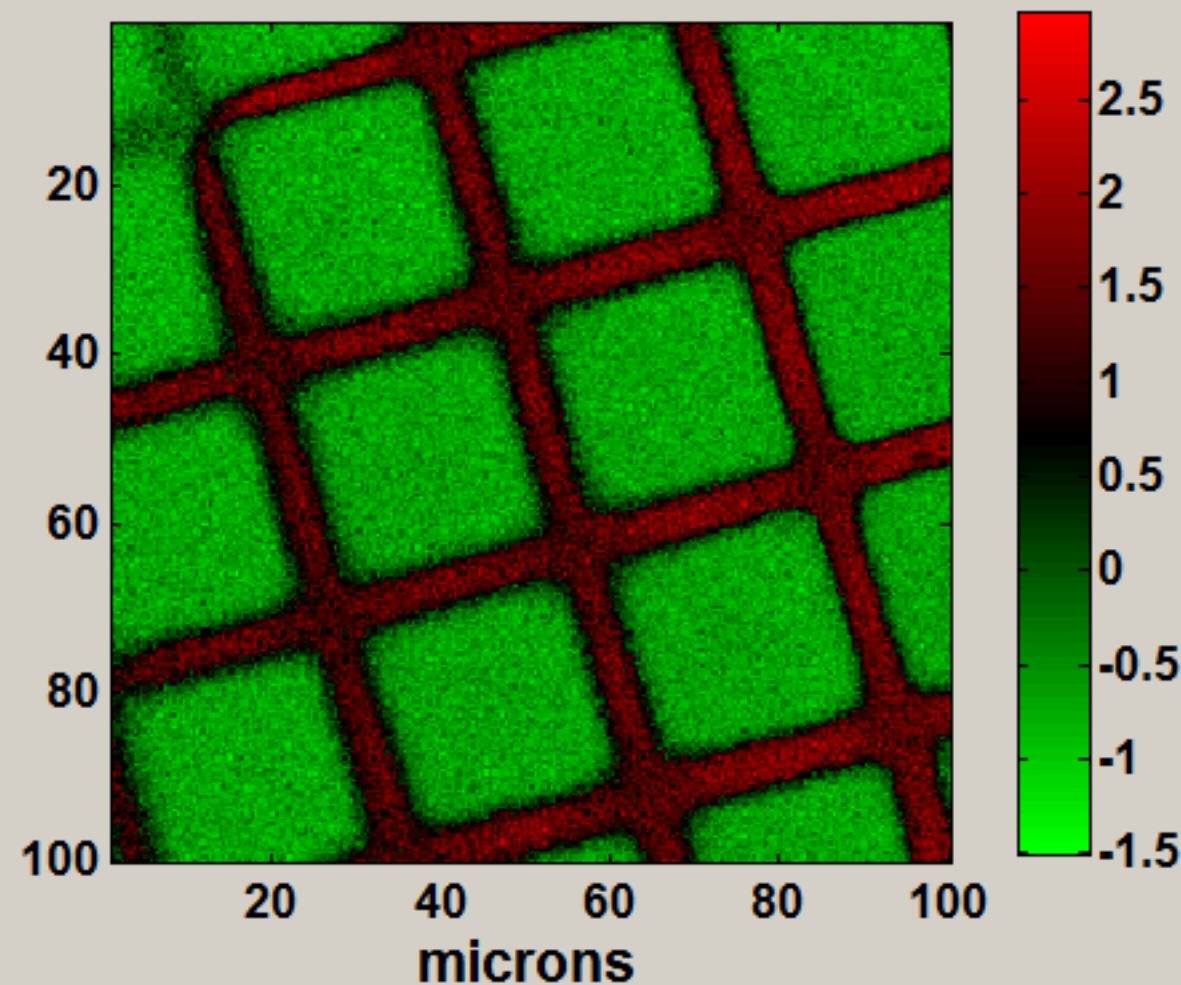
Save Score Image

Make Ext Figure

Add Score Image To Overlay List

Close Panel

PC 1 Scores



Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☐ Use micron scale

Colormap Changer

Choose new colormap

red/green

Close Panel

Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot: 1

Plot Options: Traditional

Plot PCA Scores

Show Scalebar Tools Panel

Show Image Properties Panel

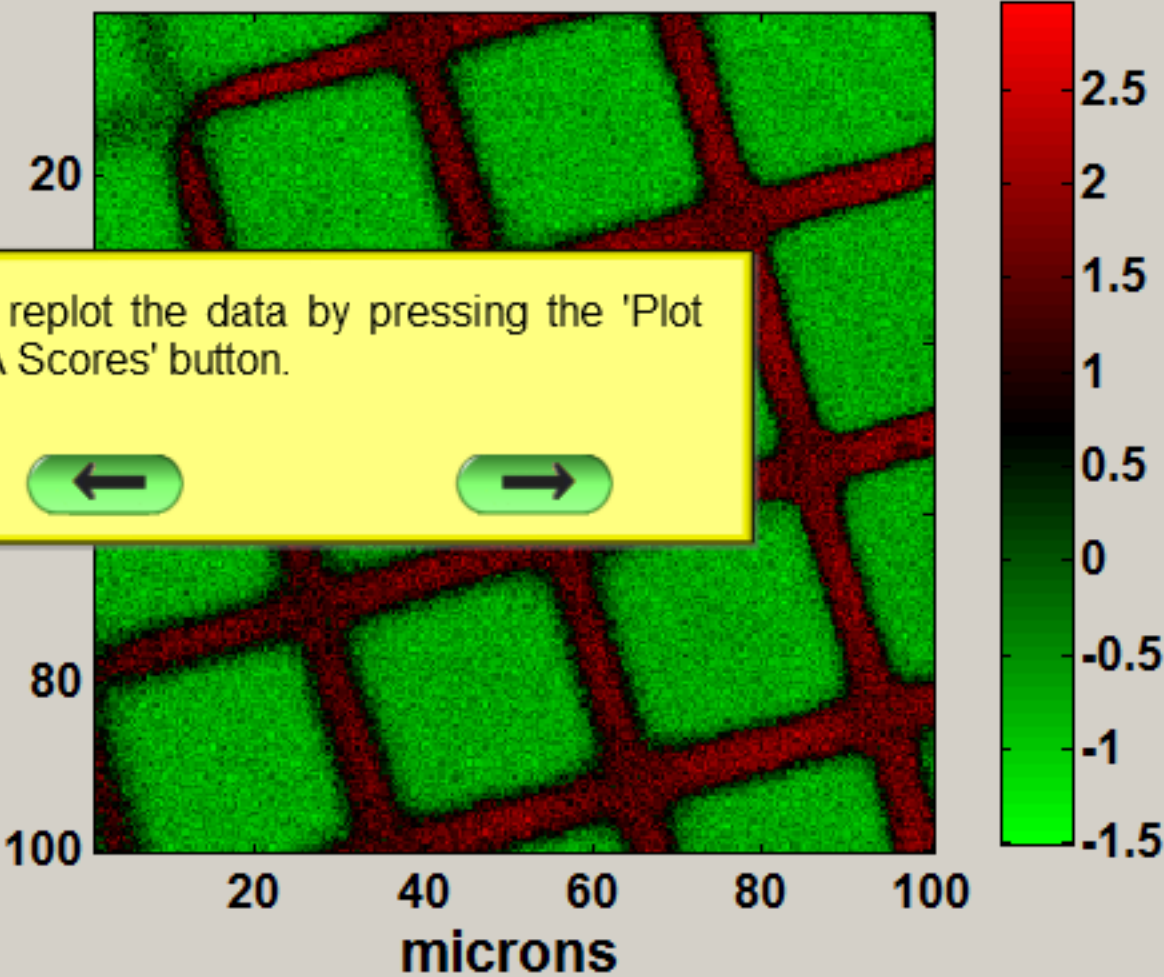
Save Score Image

Make Ext Figure

Add Score Image To Overlay List

Close Panel

And replot the data by pressing the 'Plot PCA Scores' button.



### Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

### Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

### Image Properties

#### Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

### Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☐ Use micron scale

### Colormap Changer

Choose new colormap

red/green

Close Panel

Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot:

1

Plot Options:

Traditional

Plot PCA Scores

Show Scalebar Tools Panel

Show Image Properties Panel

Save Score Image

Make Ext Figure

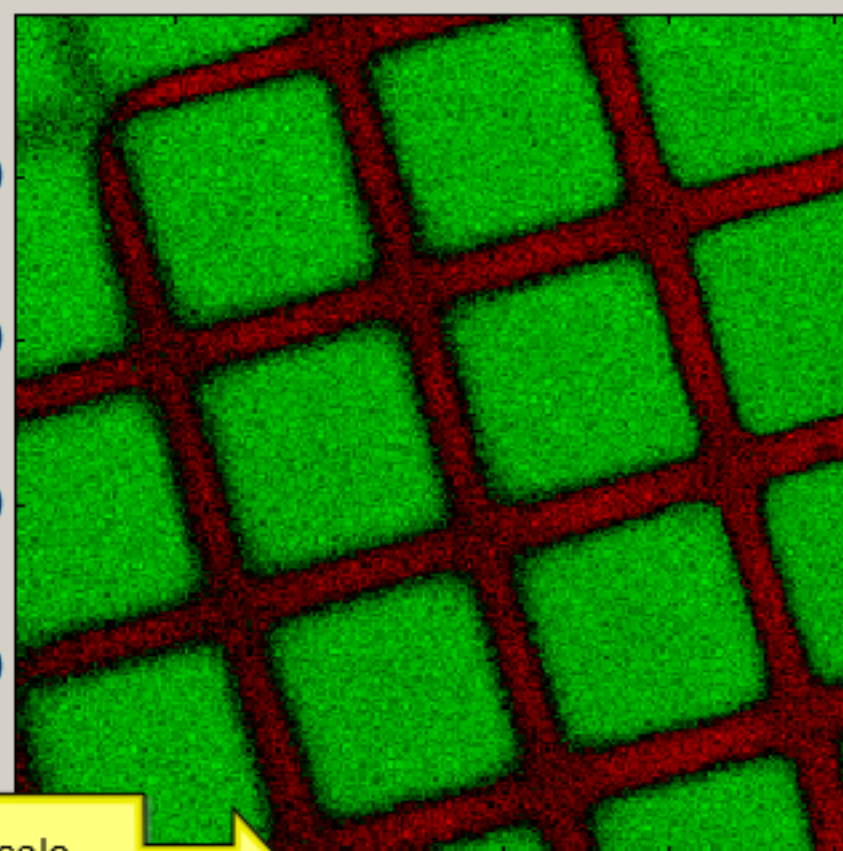
Add S

The image is replotted using a pixel scale.



PC 1 Scores

50  
100  
150  
200



pixels

2.5  
2  
1.5  
1  
0.5  
0  
-0.5  
-1  
-1.5

Data Selection Panel

Name of Image Matrix

imagedata\_DAN...

Name of Variable Matrix

exactmass\_DAN01...

Figure Label Options

Figure Title

Add Title

Remove Title

X-Axis Label

Add X Label

Rem X Label

Y-Axis Label

Add Y Label

Rem Y Label

Image Properties

Legend Maker for RGB Plots

Label 1

Color 1

☐ Use Label 1

Label 2

Color 2

☐ Use Label 2

Label 3

Color 3

☐ Use Label 3

Add Legend

Set Image size (microns)

X (horizontal)

100

Y (vertical)

100

☐ Use micron scale

Colormap Changer

Choose new colormap

red/green

Close Panel

Load Selected Scores

Scores Matrix: PCA\_scores

PC To Plot: 1

Plot Options: Traditional

Plot PCA Scores

Show Scalebar Tools Panel

Show Image Properties Panel

Save Score Image

Make Ext Figure

Add Score Image To Overlay List

Close Panel

Remember the Image Properties functions can be used on almost all of the Imagegui's figures.

If the 'Use micron scale' box is checked, then all images within the gui will be plotted using a micron scale.

The currently selected colormap is also used for all images within the Imagegui. The default colormap is 'hot'.

←

→

PC 1 Scores

100

150

200

250

50

100

150

200

250

pixels

2.5

2

1.5

1

0.5

0

-0.5

-1

-1.5

### Data Selection Panel

Name of Image Matrix

imagedata\_dan01

Name of Variable Matrix

exactmass\_dan01

That ends this tutorial. Press the button on the left to go back to the previous step. Press the button on the right to start the tutorial over.

