

# GeneTools Software Spot Blot Image Analysis Quick Guide

## 1. Open GeneTools

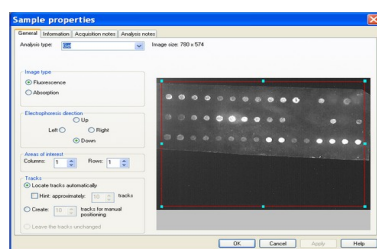
Once GeneTools has opened from the File menu select open. From the pop-up window select the file you wish to analyse.

**Note:** If you wish to analyse a .TIFF file format you will need to select **New (import)** from the File menu

## 2. Sample properties window

Select spot blot from the drop-down analysis type menu. Select the blot type choose from circle or rectangle.

If spots are in a grid, select this option.



## 3. Spot manipulation toolbar

**Spots the same size icon-** If spots are all the same size select this icon.

**Positioning spots-** use this icon to resize or move the spot frame. Any adjustment in positioning is best made by moving control point spots (shown in red). Alternatively, you can use the position any spot icon.

**Locating spots-** the locate spots icon allows you to set the conditions for automatic spot detection.

**Lock position-**use this icon to lock the position of spots.

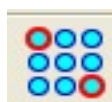
**Background correction-** from the drop-down menu select from automatic or manual. **Automatic** will take an individual background measurement calculated from the four corner pixels of each spot.

**Manual** the user can draw any number of background boxes upon the image.

**Spots the same size**



**Position-control points**



**Position any spot**



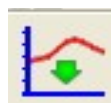
**Locate spots**



**Lock position**



**Background correction**



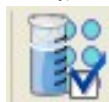
#### 4. To assign quantities

Click on a reference spot then use the assign quantities icon. Then in the pop-up window enter a calibrated quantity. For greater accuracy click on quantity calibration parameters icon to add in more than a known quantity.

Assign quantities



Quantity calibration parameters



#### 5. Exporting data

GeneTools is capable of generating reports that are fully GLP compliant.

The results table can also be exported to Microsoft Excel or full report to Microsoft Word.

Select



Select



or



#### 6. Help menu

Select the help menu from the tool bar. Use the drop-down menu to pick a help topic.

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