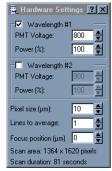
## User guide for Microarray fluorescence scanner

- 1. Login the PC (UserID: Gregstep16 Password: Gregstep16)
- 2. Double click on the GenePix Pro 3.0 control program

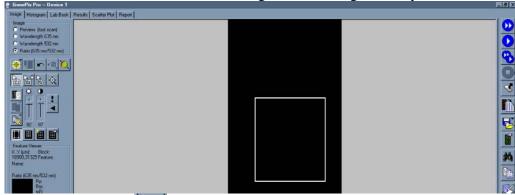


3. Click on **Hardware settings** , in the panel. Select the appropriate PMT and power for the Cy3 (Wavelength 532 #2) and Cy5 channel (Wavelength 635 #1).



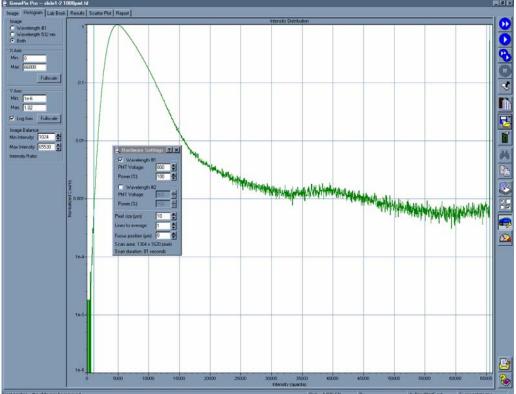
4. Click on **Preview scan** to determine the area of slide to be scanned.

5. Click on **Scan area** tool to create the region containing the array features



6. Click on **Data scan** to obtain high resolution scan for data analysis

7. The **Intensity ratio** of the array (Cy3/Cy5) can be observed in the Histogram tab. Adjust the PMT Gain in each channel and repeat data scan until this ratio is ~1.0.

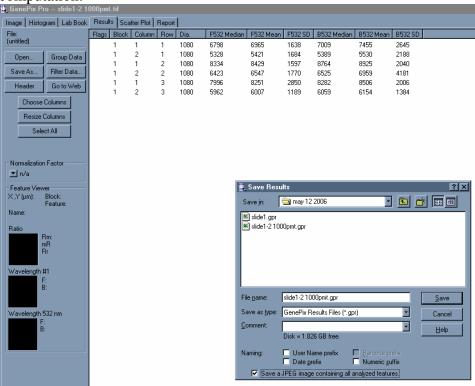


8. Once the array has been scanned, the next step is to save the image. click on **Open/Save** icon and save the image in Tiff format.



- 9. In order to obtain the fluorescence reading of the features, click on **Open/Save** icon and select the appropriate genePix Array List (GAL) file (*Load array list*) that imports the position and identity of each feature on the microarray
- 10. Click on **Analyze** icon to extract the data from each feature and the result will be sent to the Results tab spreadsheet. The data can then be saved for further

computation.



11. Delete obsolete data by pressing "Shift + Delete". Please note that the file would not be recoverable in the **Trashbin.**