

# Genarrayt® Software Summary Guide

## 1. Retrieve Files from CD

- **Insert CD:** Place the appropriate kit CD into the PC and view the contents.
- **Copy files:** Copy the following files to the appropriate destination:
  - GAL file to 'Gal files – shortcut' folder.
  - Genarrayt software file to 'Genarrayt reporting software – shortcut' folder.

## 2. Start the Software

- **Open:** Double-click on the Genarrayt software Excel file.
- **Click:** OK to activate the software.

## 3. Scan Slides

- **Click:**  **Prepare Scanner Unit** and follow the instructions on screen.
- **Click:**  **Acquire Images from Genarrayt® Scanner**
- **Choose bay:** Click 'Select Slide Bay' and choose the bay to be scanned.
- **Preview:** Click 'Pre-Scan All' to generate a preview image.
- **Scan:** Drag a box around the area to be scanned then click 'Scan' to generate a high resolution image.
- **Save:** Using an appropriate filename, save the TIF image in the 'SpotWare Scans' folder.
- **Repeat:** Complete the above for each bay that contains a slide.
- **Remove slides:** Take the slides off the scanner and store sealed in a dark, dry place.
- **Close:** Exit SpotWare™ and turn off the scanner.

## 4. Analyse Image

### 4.1. Open & Prepare Image

- **Click:**  **Analyse Image with GenePix® Pro** to open GenePix®.
  - **Click:**  'File' menu button (7<sup>th</sup> down on right).
  - **Open:** Select 'Open Images' and double-click the image to be analysed.
    - Excitation wavelength = Serial number of the Genarrayt Microarray Platform.
  - **Load GAL:** From the 'File' menu, select 'Load Array List' and open the GAL file for this kit.
  - **Fit GAL:** Press **F8** on the keyboard.

### 4.2. Review Spot-Fitting

- **Zoom:** Enter 'Zoom Mode' (right-click and select) then drag a box around the pad to be analysed. The chosen pad will fill the screen.
- **Check fit:** Enter 'Feature Mode' (right-click and select) then perform the following checks:
  - Confirm the blank 'T' in the middle is the right way up. There should be 6 bright spots to the left of the 'T' and 3 bright spots to the right of the 'T'.
  - Ensure that each circle is centred around or within its corresponding spot on the array.

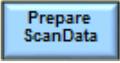
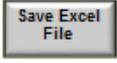
### 4.3. Correct Spot-Fitting

- **Move:** Relocate spots by clicking them and using the arrow keys or dragging with the mouse.
- **False positives:** If a particle causes a negative spot to be positive, drag this spot onto its duplicate.
- **Repeat:** Systematically repeat 4.2 and 4.3 for each pad until all have been viewed and corrected as required.
- **Do not** resize the spots.

#### 4.4. Create GPR File

- **Analyse:** Click the 'Analyse' button. 
  - A table will be displayed with the analysis data for each spot/pad.
- **Save:** Click the 'File' button and choose 'Save results as'.
  - The saved GPR file will have the same name as the scanned image.
- **Close:** Exit GenePix® Pro.

### 5. Import GPR & Save Software

- Click:  **Create and Amend Reports**
- Import GPR: Click  and open the GPR file just made in GenePix® Pro.
- Click: . 'Prepared' will appear below this button in green.
- Enter date and slide details: into the 'Slide Reference' box. Do not use any dashes, full stops or slashes (-./).
- Save software: Click  to save a copy of the software.

### 6. Generate Reports

- Clear: Click  to clear existing patient details.
- Select pad: Choose the appropriate pad from the drop down menu.
- Click: . 'Data Compiled' will appear below this button in green.
- Enter patient details: Insert necessary patient data. It is important to enter the Family name as a minimum.
- Check standards: Ensure the %CV is less than 20%. If not, delete any obvious outliers in the standard grid. Click elsewhere on the sheet and the CV will be updated.
- Check controls: Ensure the positive control value falls between 70-130 and the negative control is less than 24.
- Select Groups Report: 'Groups' tab at the bottom of the sheet.
- Select Panel: Choose the desired panel for this patient by clicking on the buttons at the top of the screen.
- Save Report: Click 
- Print: Click 
- Standard Report: Click on the 'Report' tab at the bottom of the screen and repeat from Select Panel stage above.
- Repeat: Systematically repeat section 6 for each patient.
- Close: Exit the software.

### 7. Support

- Please refer to the Genarray Software User Manual and kit Instructions For Use for more information.
- For technical assistance please contact: [support@elisa.co.uk](mailto:support@elisa.co.uk).