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Console

The console is an element of the main GUI. Data appears in the console when a sample or a curve is highlighted in the main GUI and when operations have completed such as dose estimation. The console displays information in real-time, while reports can be used to save information related to samples, calibration curves, or dose estimation results. The console also contains tabular output when a plot is generated, providing a method to view the numerical data which forms the plot.

Example console output

The console is updated in real-time upon completion of a variety of events. Some example console output is shown below.

A sample has completed processing

```
------ May 23 15:43:13
Summary of Processing Sample: Xray 0
In the file folder of Xray 0: D:/BioDosimetry Curve Data/AECL/Xray 0
500 image file(s) are found in total. 500 file(s) are processed. 0 file(s) are damaged, corrupted or missing.
```

A sample is highlighted

```
- May 23 15:16:46
Sample: CNL2GvAll
Images in total: 996
Images path: D:\BioDosimetry Curve Data\AECL\CNL Xray 2Gy All Inv
DC analysis result in all 996 images
DCs in all images, FP flag 126
                 | Sigma 0.8 | Sigma 0.9 | Sigma 1.0 | Sigma 1.1 | Sigma 1.2 | Sigma 1.3 |
                                                                            | 193
                                                                                                         289
     | DC Frequency | 0.006 | 0.037 | 0.065
                                                           0.133
                                                                              0.194
                                                                                           0.248
                                                                                                         0.290
                                                                                                                      0.350
                                                                                                                                                  0.449
DC analysis result in 996 selected images, no image selection applied, using all images
    DCs in selected images, FP flag 126
                  | Sigma 0.8 | Sigma 0.9 | Sigma 1.0 | Sigma 1.1 | Sigma 1.2 | Sigma 1.3 | Sigma 1.4 | Sigma 1.5 | Sigma 1.6 | Sigma 1.7 | Sigma 1.8
     SVMs
```

A curve is highlighted

Fitting Stats: Chi-square 0.000101308; R2 (Coefficient of Determination) 0.999899; Degrees of Freedom 2

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Dose estimation is performed

DC Frequency Name	DC Frequency SVM	Estimated Dose	Dose 95% LCL Dose 95% UCL	CL Uncertainty	Applied Image Selection Model
INTCO03S04_All_Sigma 1.5_0.445	0.445141 Sigma 1	.5 3.90Gy	Disabled Disabled	CL is disabled	No image selection is applied
INTCO03S05_All_Sigma 1.5_0.530	0.529797 Sigma 1	.5 *4.00 Gy	Disabled Disabled	CL is disabled	No image selection is applied
INTCO03S07_All_Sigma 1.5_0.570	0.570068 Sigma 1	.5 *4.00 Gy	Disabled Disabled	CL is disabled	No image selection is applied

A classified object / segmented object plot is generated

------May 23 15:34:18
Classified Ratio Distribution in sample CNL3GyAll

Distribution part 1	 		
Classified Ratio Range	[0.10, 0.15) [0.15, 0.20)	[0.20, 0.25) [0.25, 0.30)	[0.30, 0.35) [0.35, 0.40)
Percentage of Such Images	0.000 0.001	0.001 0.005	0.010 0.017
Distribution part 2	 		
Classified Ratio Range	 [0.60, 0.65) [0.65, 0.70)	[0.70, 0.75) [0.75, 0.80)	[0.80, 0.85) [0.85, 0.90)
Percentage of Such Images	0.076 0.094	0.099 0.109	0.108 0.105

CL: confidence limit. LCL, UCL: lower, upper CL.
*(if present in table): the estimated dose or dose CL is out of bounds.
^(if present in table): the calibration curve is ill-formed at region of the estimated dose. The DC frequency matches multiple doses