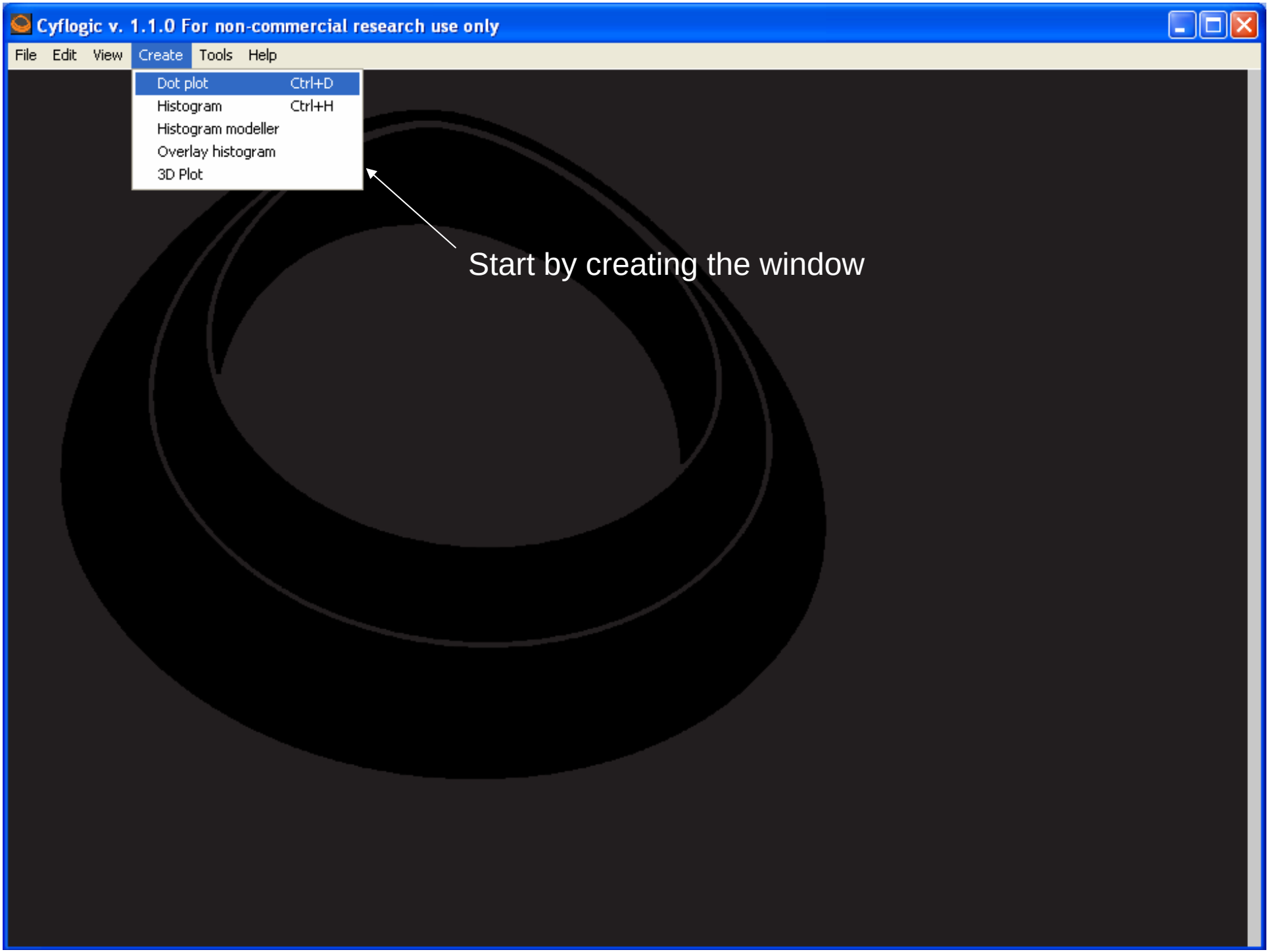
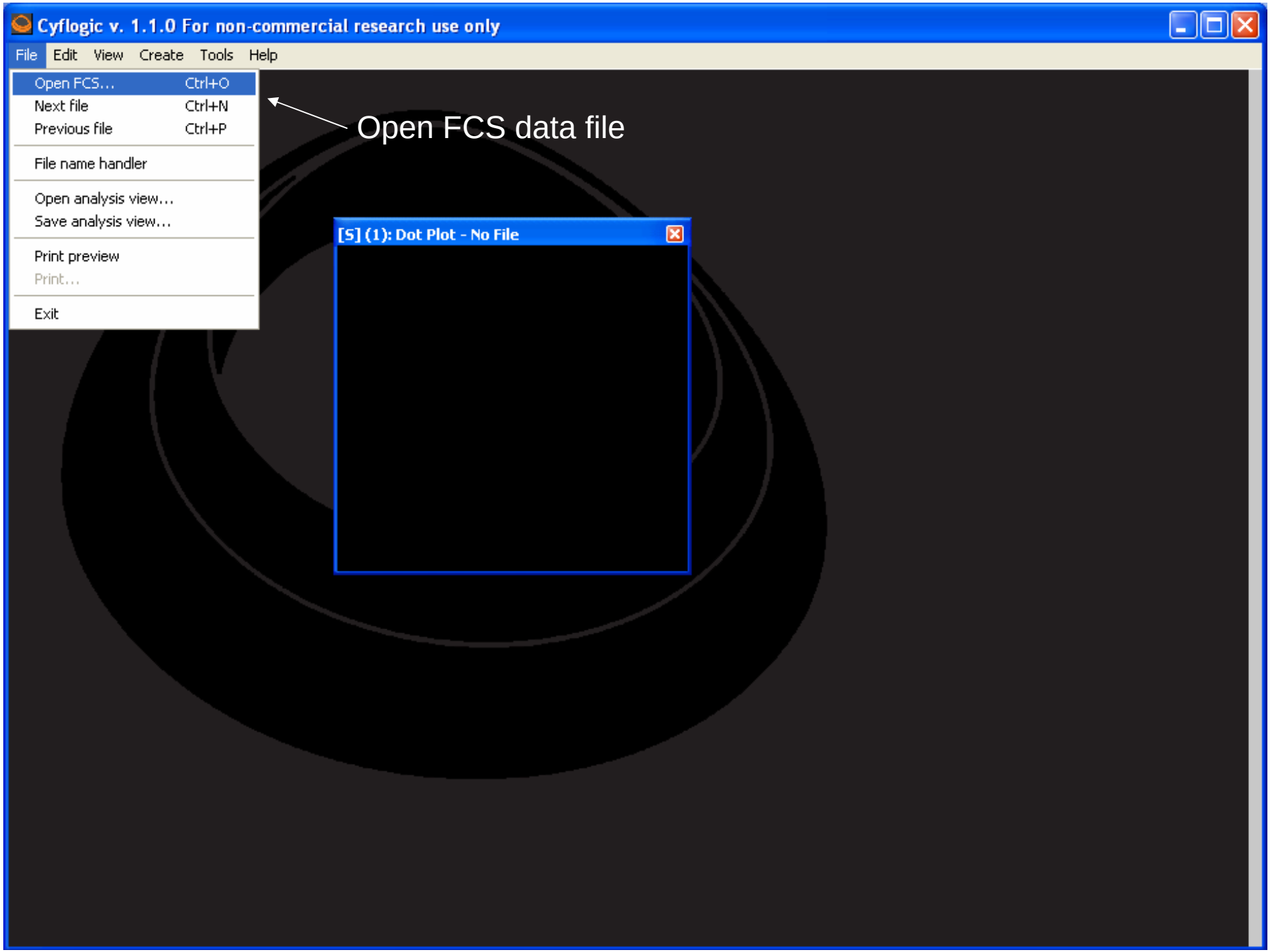
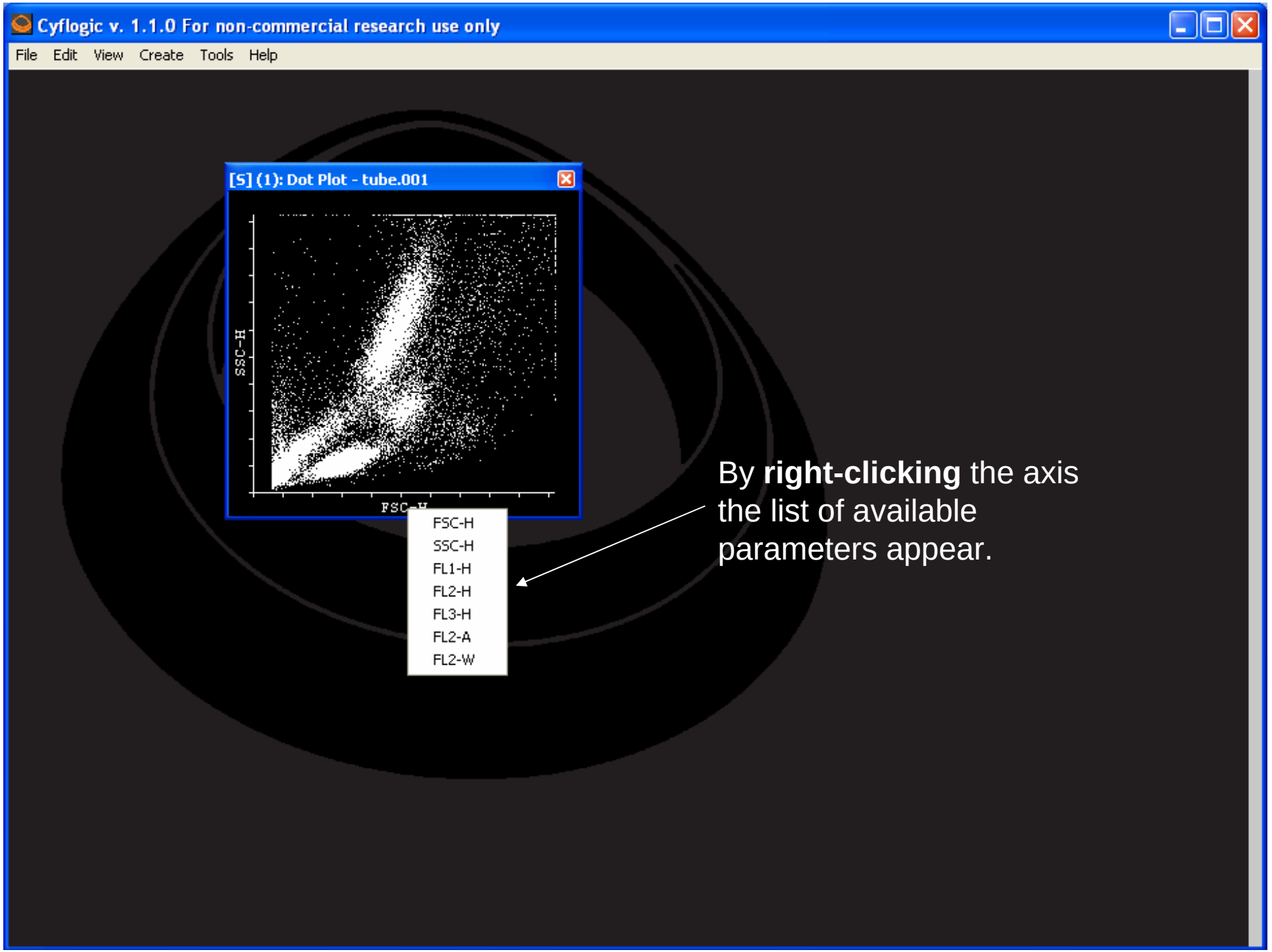
Introduction to version 1.1.0

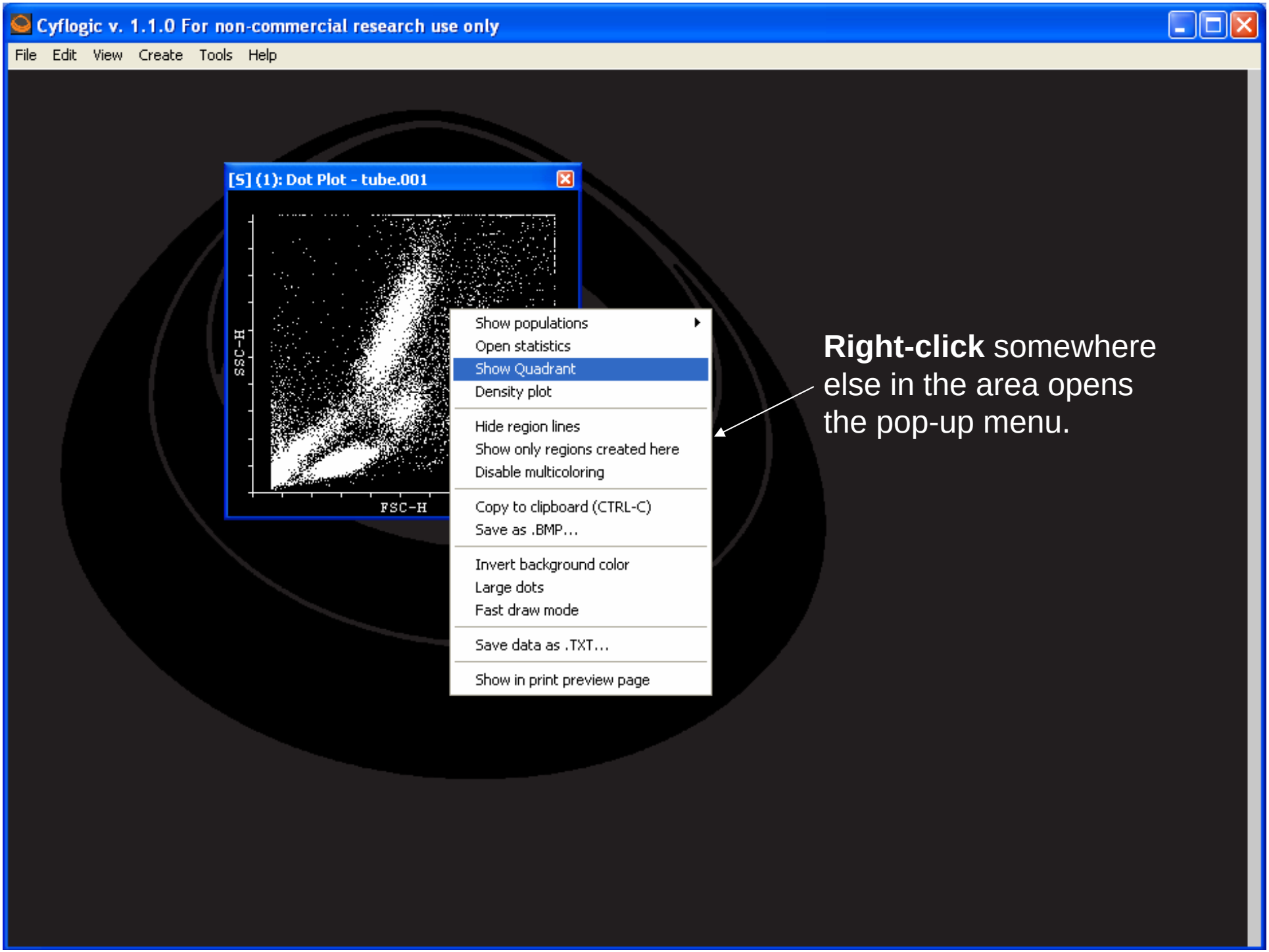
Instruction date 16.5.2008

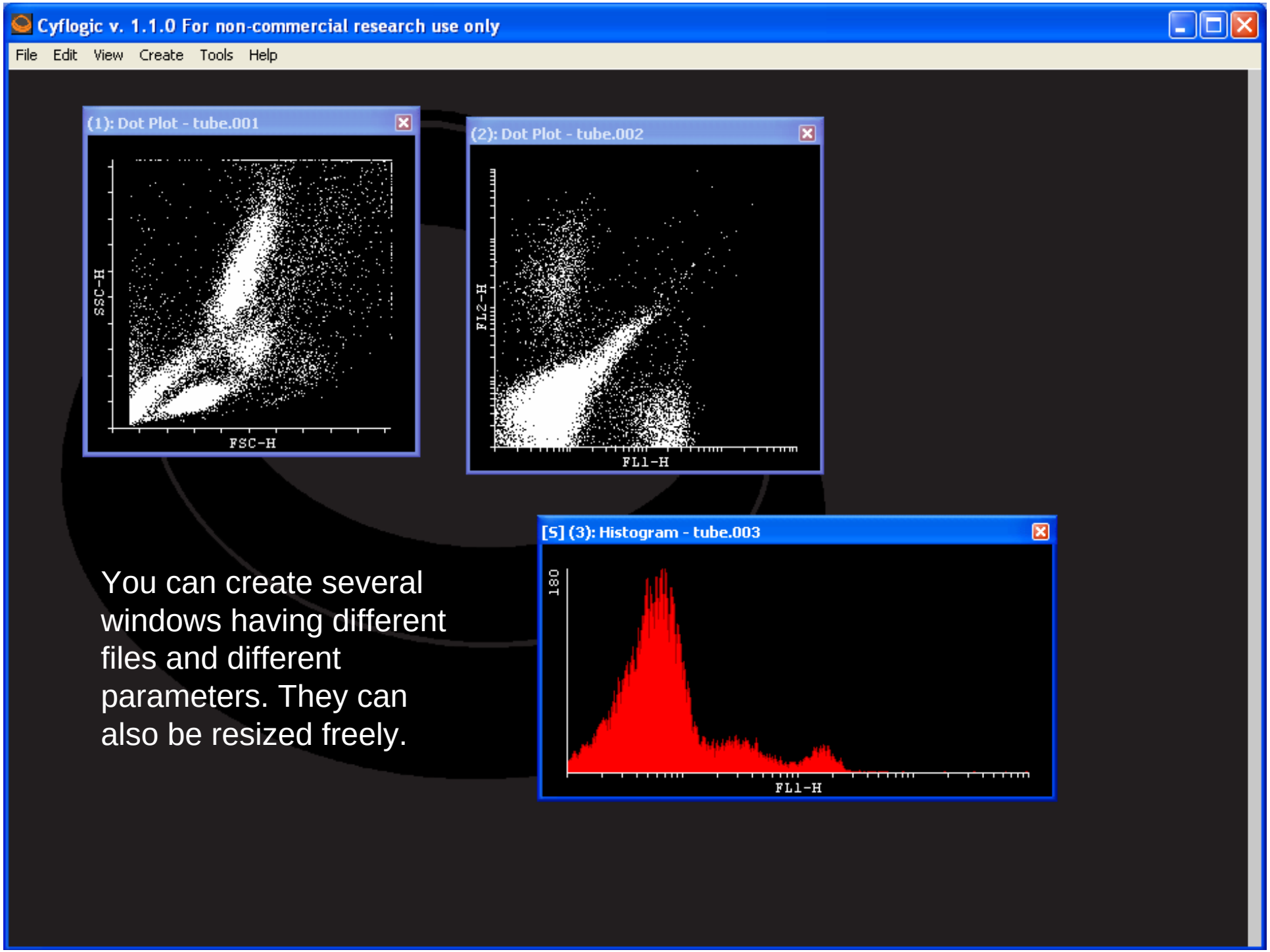
Windows and Files

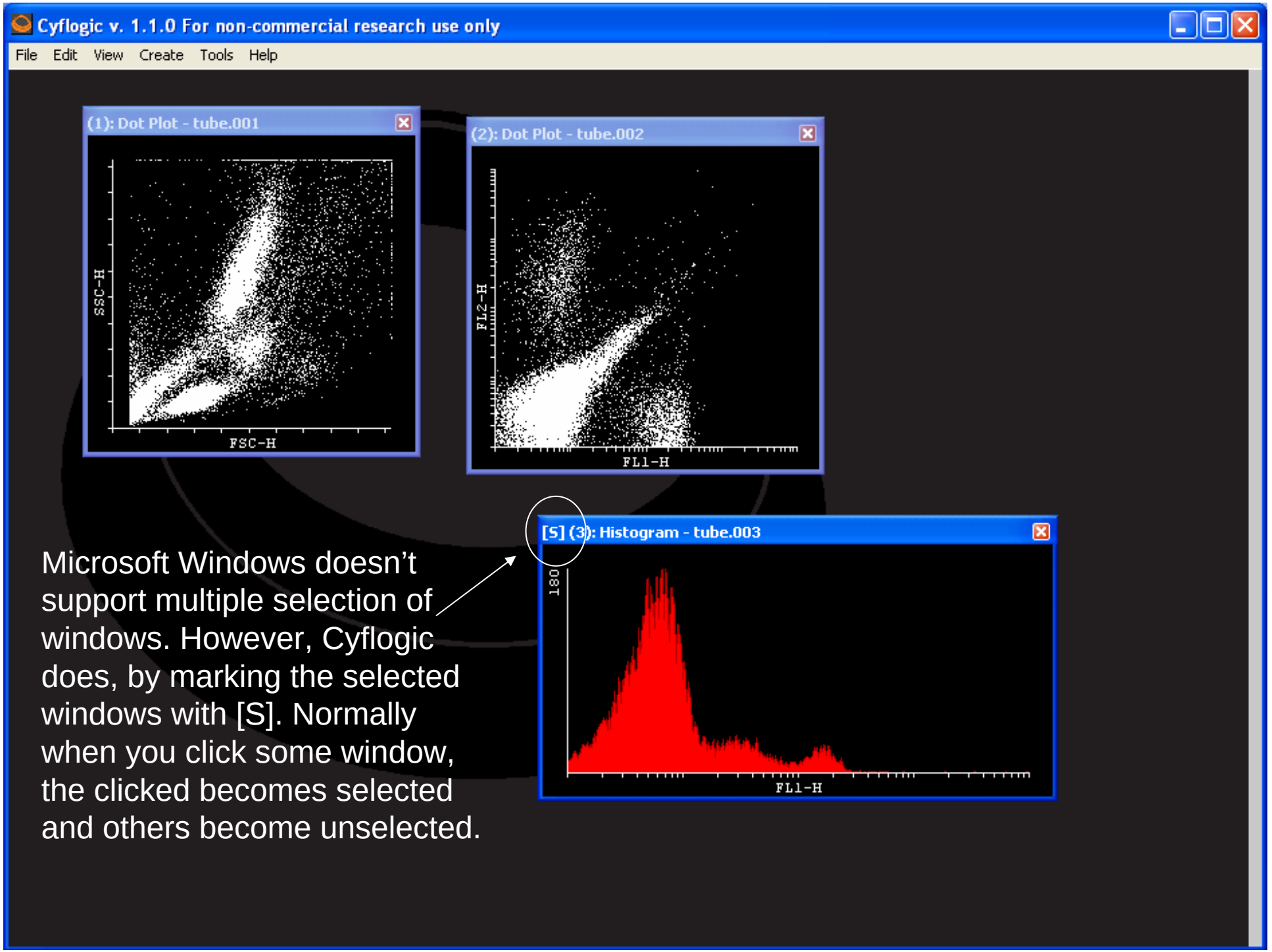

Cyflogic v. 1.1.0 For non-commercial research use only
File
Edit
View
Create
Tools
Help
Dot plot Ctrl+D
Histogram Ctrl+H
Histogram modeller
Overlay histogram
3D Plot
Start by creating the window

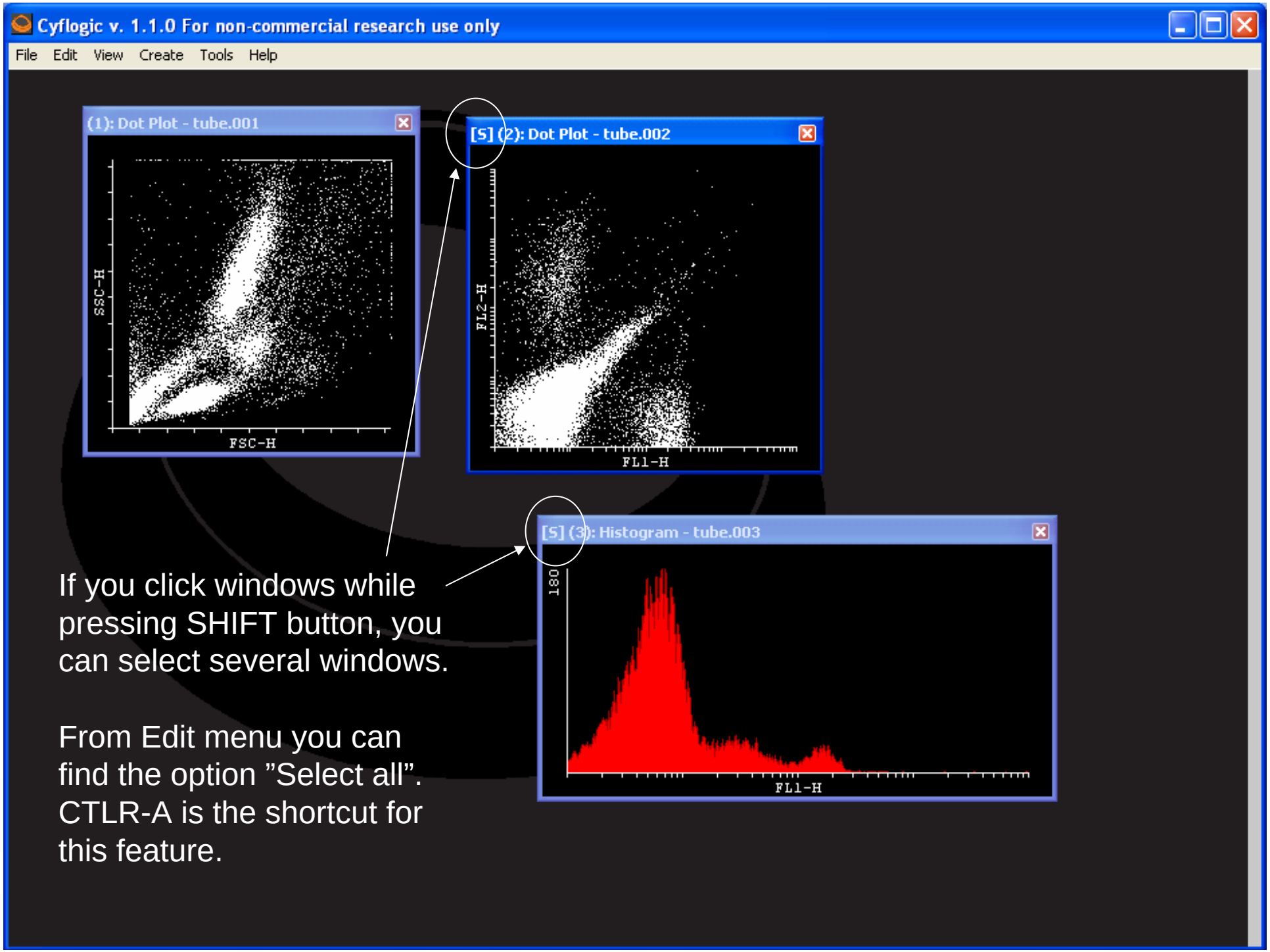

Cyflogic v. 1.1.0 For non-commercial research use only
File
Edit
View
Create
Tools
Help
Open FCS... Ctrl+O
Next file Ctrl+N
Previous file Ctrl+P
File name handler
Open analysis view...
Save analysis view...
Print preview
Print...
Exit
Open FCS data file
[5] (1): Dot Plot - No File

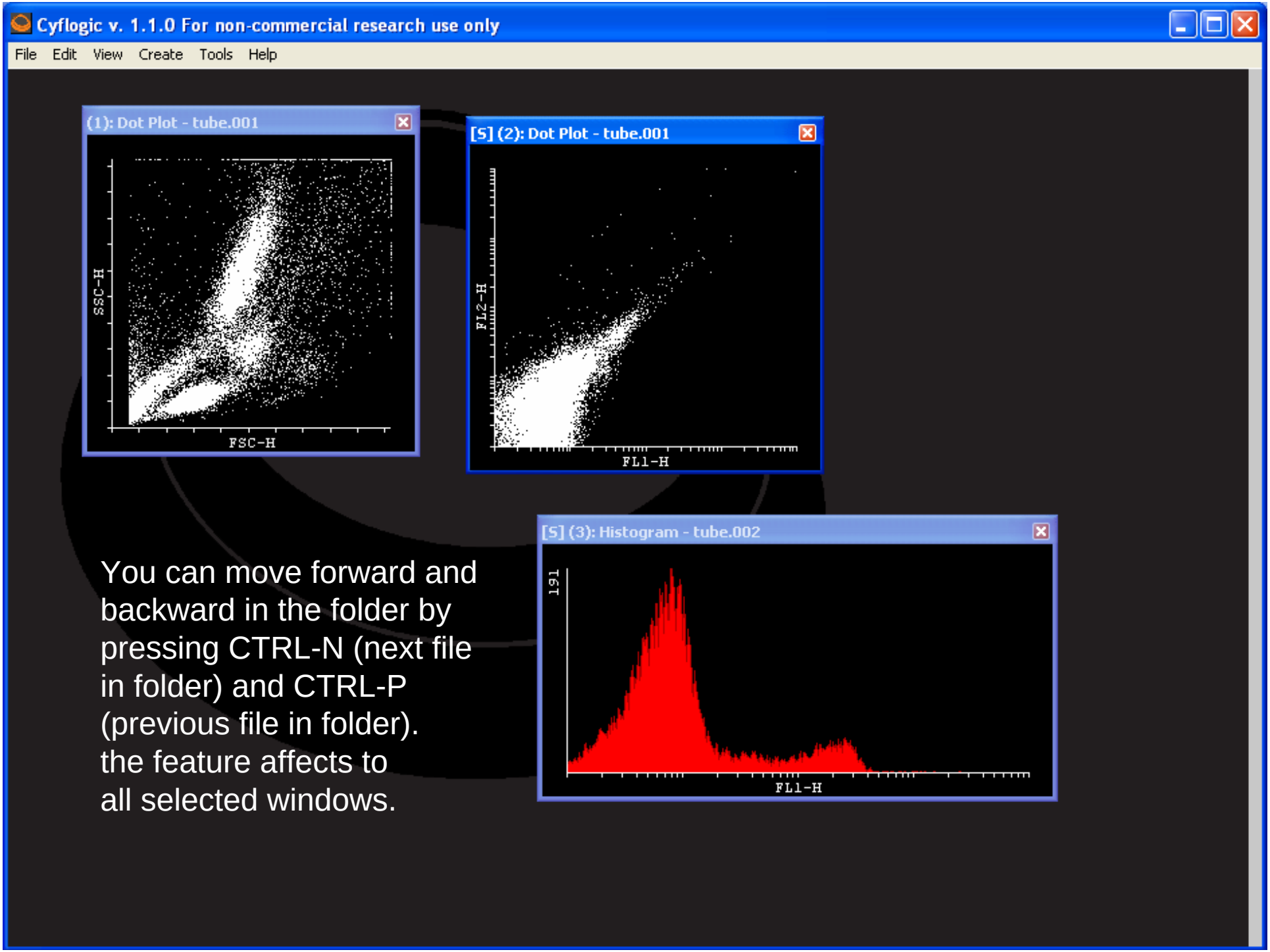

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): Dot Plot - tube.001
SSC-H
FSC-H
FSC-H
SSC-H
FL1-H
FL2-H
FL3-H
FL2-A
FL2-W
By **right-clicking** the axis the list of available parameters appear.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): Dot Plot - tube.001
SSC-H
FSC-H
Show populations
Open statistics
Show Quadrant
Density plot
Hide region lines
Show only regions created here
Disable multicoloring
Copy to clipboard (CTRL-C)
Save as .BMP...
Invert background color
Large dots
Fast draw mode
Save data as .TXT...
Show in print preview page
Right-click somewhere else in the area opens the pop-up menu.

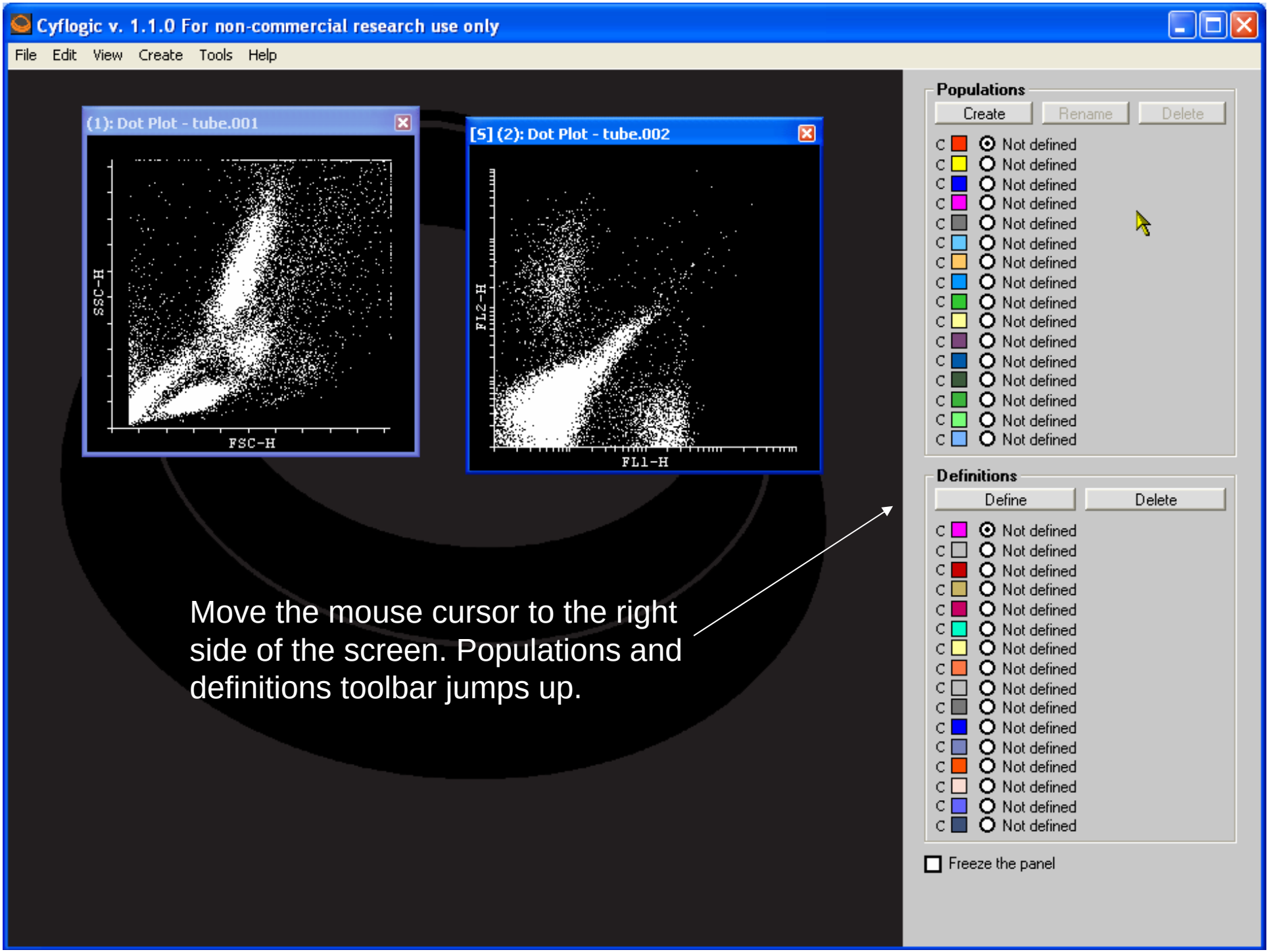

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
(2): Dot Plot - tube.002
FL2-H
FL1-H
[S] (3): Histogram - tube.003
180
FL1-H
You can create several windows having different files and different parameters. They can also be resized freely.

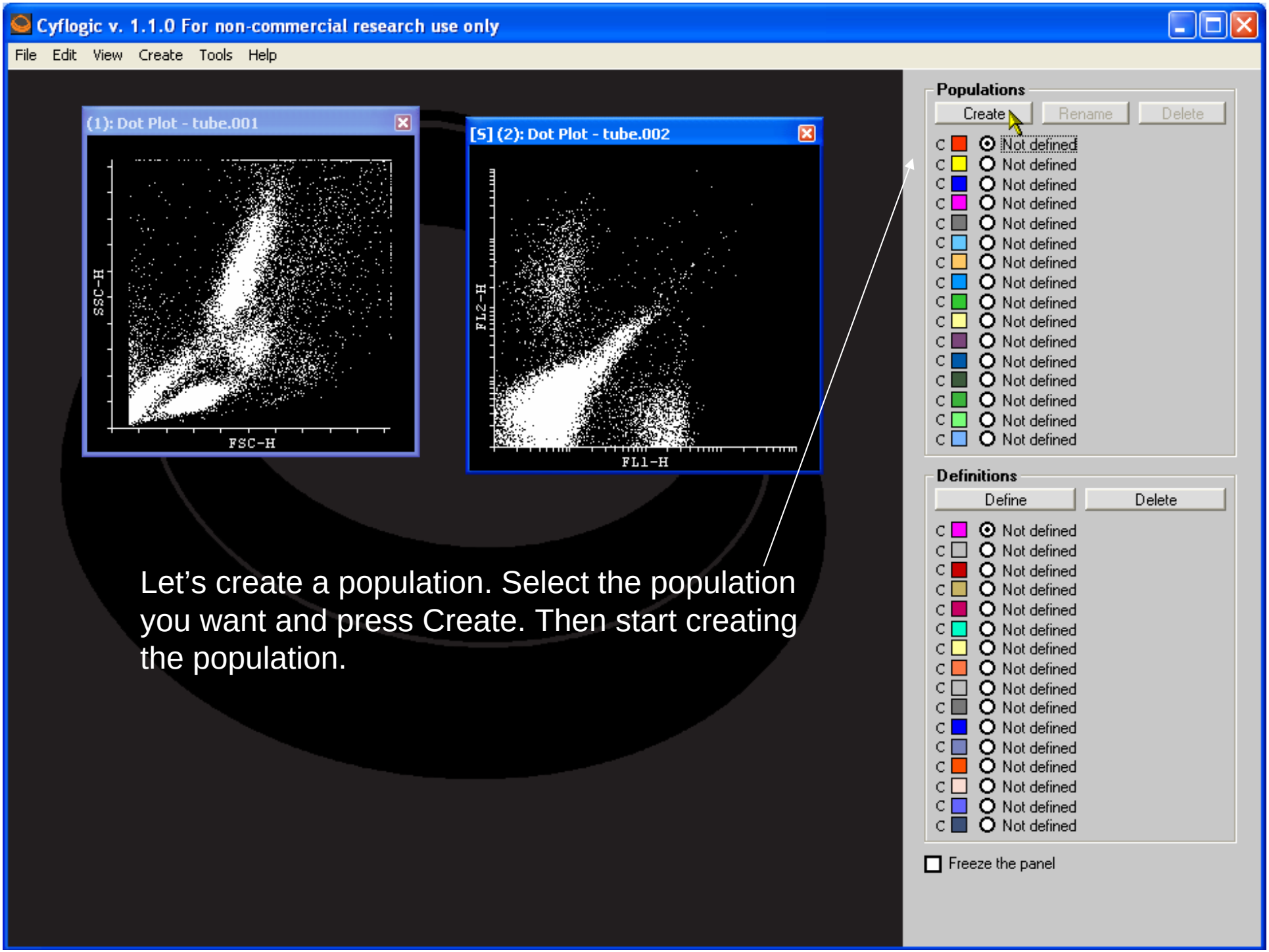

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
(2): Dot Plot - tube.002
FL2-H
FL1-H
[S] (3): Histogram - tube.003
180
FL1-H
Microsoft Windows doesn't support multiple selection of windows. However, Cyflogic does, by marking the selected windows with [S]. Normally when you click some window, the clicked becomes selected and others become unselected.

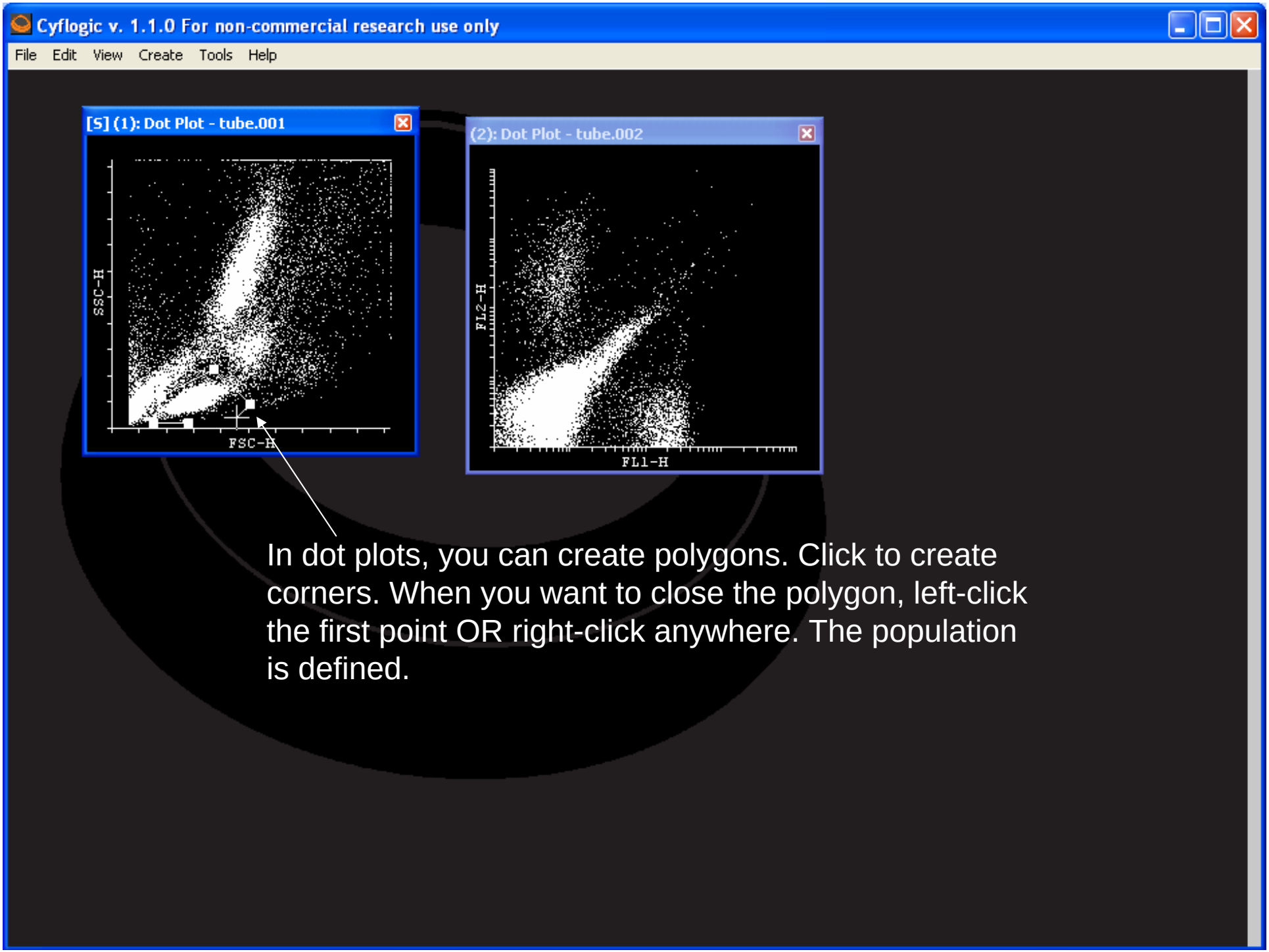

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
FL1-H
[S] (3): Histogram - tube.003
180
FL1-H
If you click windows while pressing SHIFT button, you can select several windows.
From Edit menu you can find the option ”Select all”. CTLR-A is the shortcut for this feature.

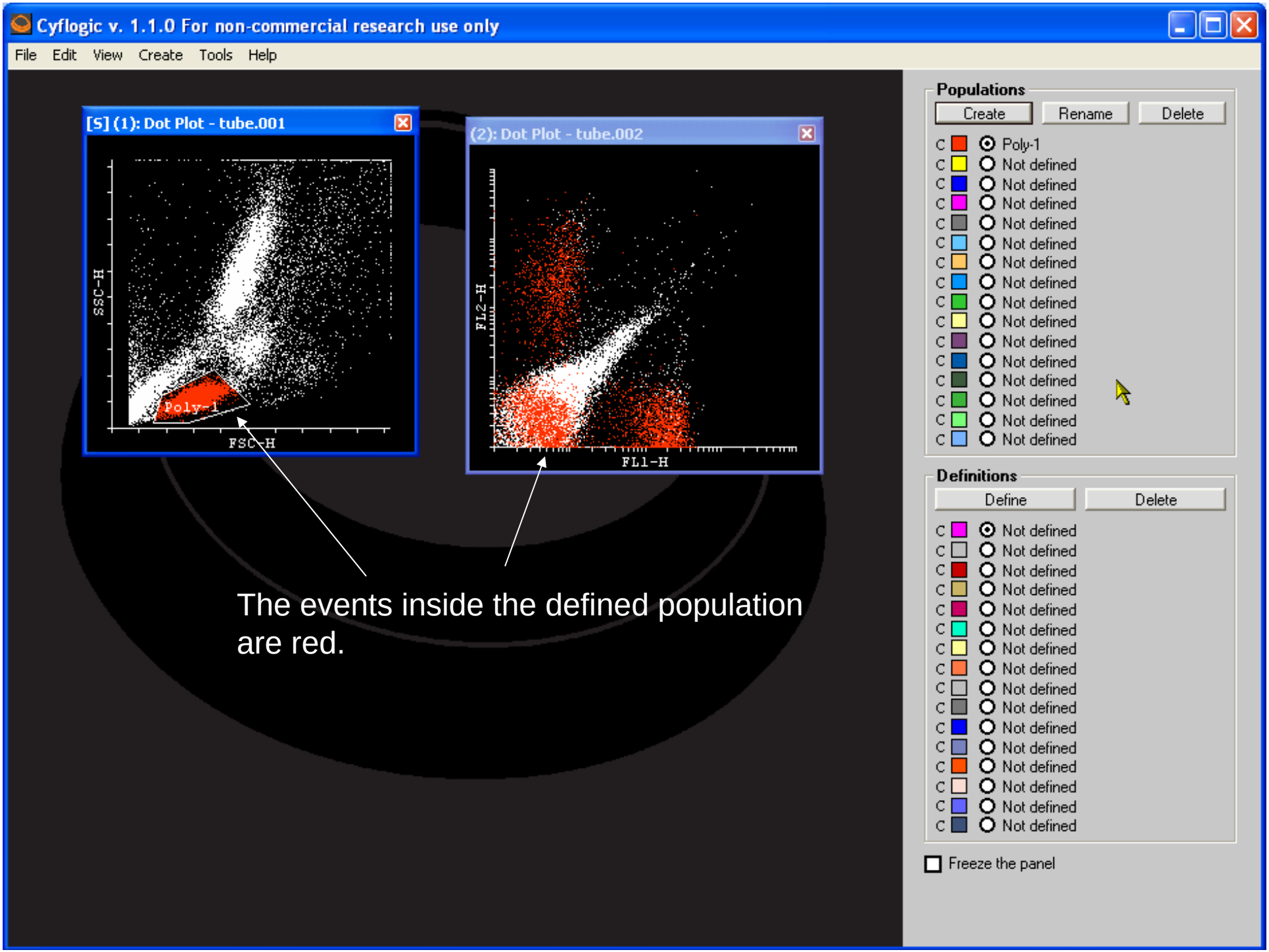

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.001
FL2-H
FL1-H
[S] (3): Histogram - tube.002
161
FL1-H
You can move forward and backward in the folder by pressing CTRL-N (next file in folder) and CTRL-P (previous file in folder). the feature affects to all selected windows.

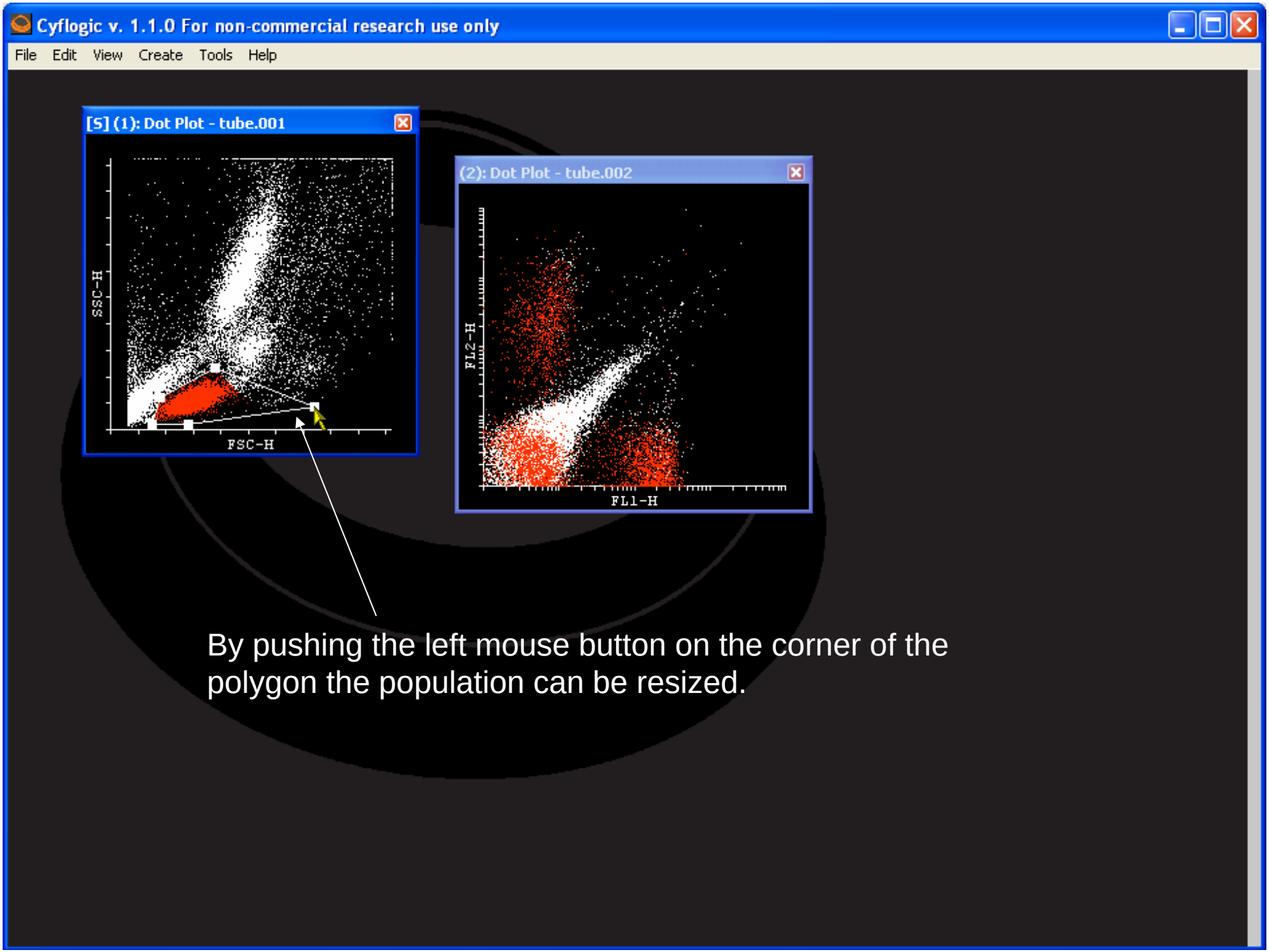
Populations and Definitions

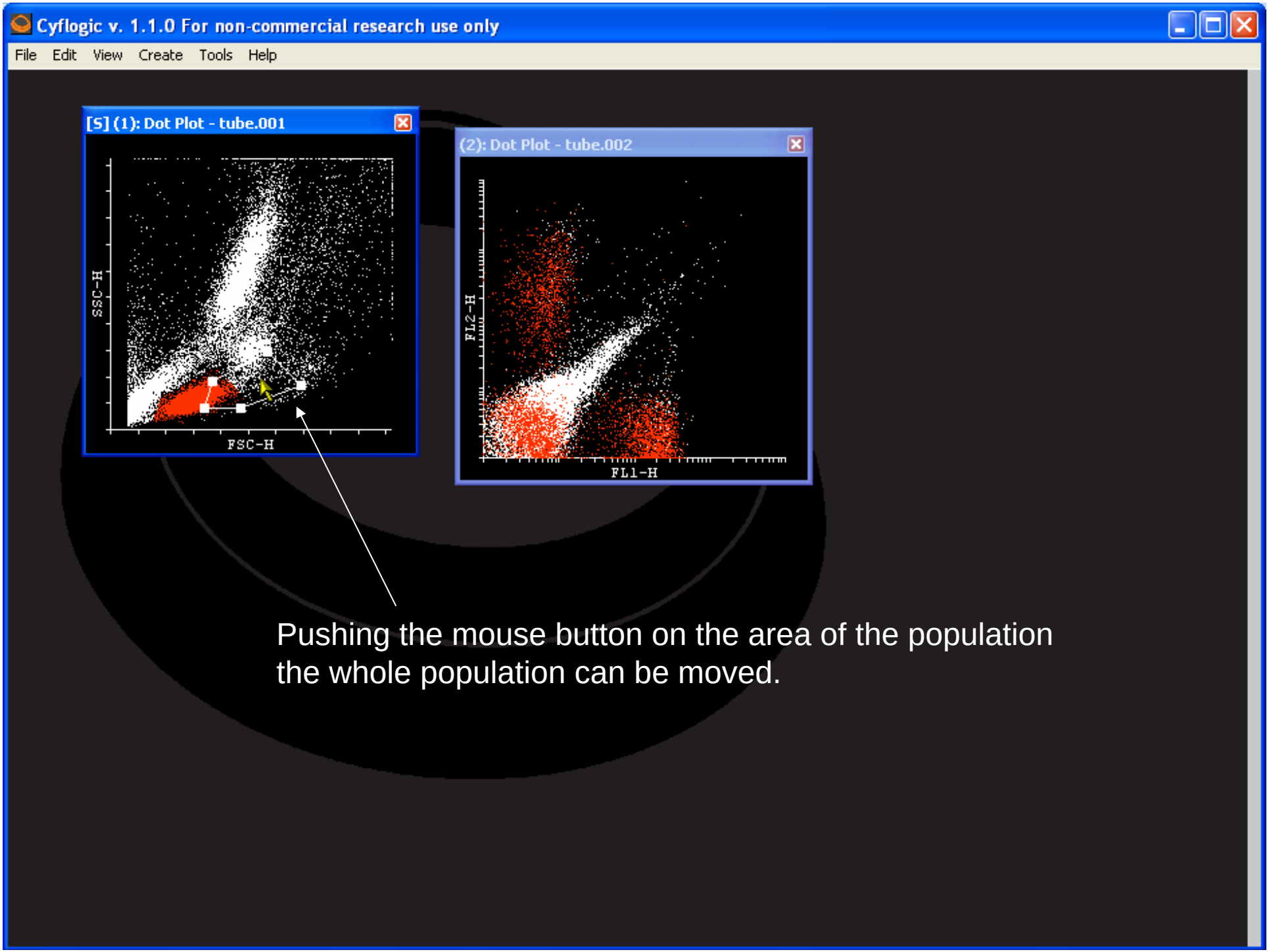

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
FL1-H
Populations
Create
Rename
Delete
Not defined
Definitions
Define
Delete
Not defined
Freeze the panel
Move the mouse cursor to the right side of the screen. Populations and definitions toolbar jumps up.

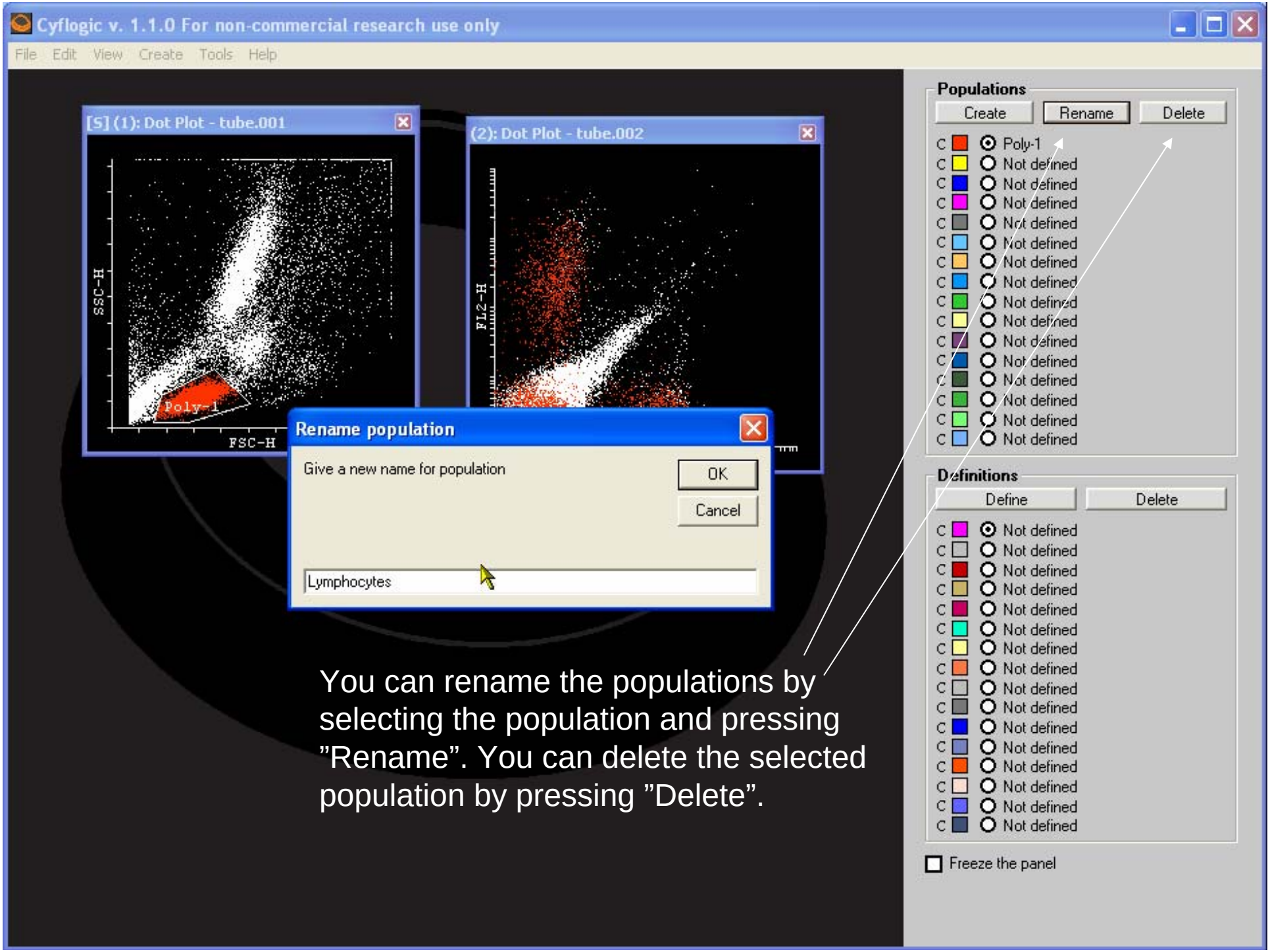

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
FL1-H
Populations
Create
Rename
Delete
Not defined
Definitions
Define
Delete
Freeze the panel
Let's create a population. Select the population you want and press Create. Then start creating the population.

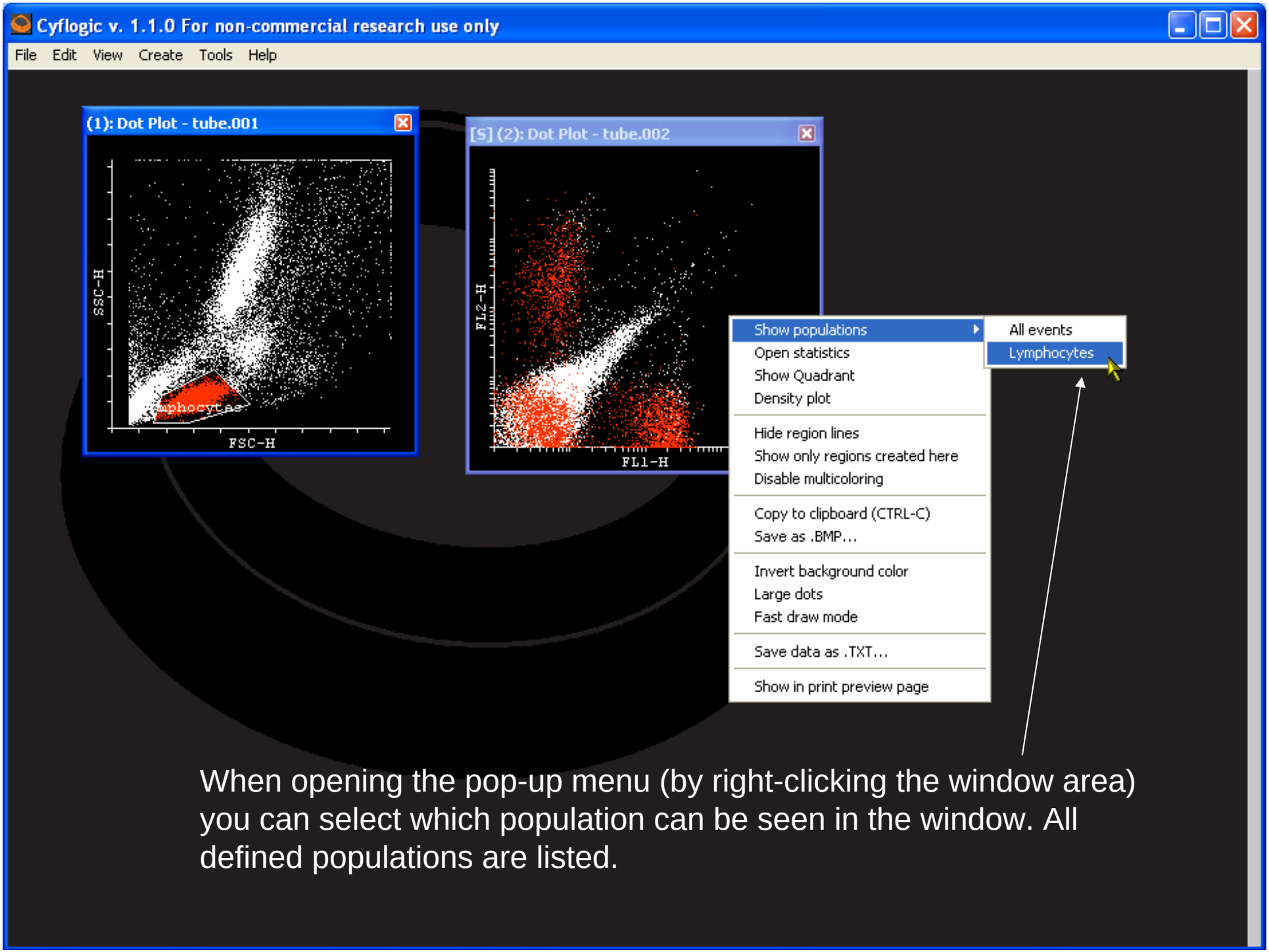

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[S] (1): Dot Plot - tube.001
SSC-H
FSC-H
(2): Dot Plot - tube.002
FL2-H
FL1-H
In dot plots, you can create polygons. Click to create corners. When you want to close the polygon, left-click the first point OR right-click anywhere. The population is defined.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[S] (1): Dot Plot - tube.001
SSC-H
FSC-H
Poly-1
(2): Dot Plot - tube.002
FL2-H
FL1-H
Populations
Create
Rename
Delete
Poly-1
Not defined
Definitions
Define
Delete
Not defined
Freeze the panel
The events inside the defined population are red.

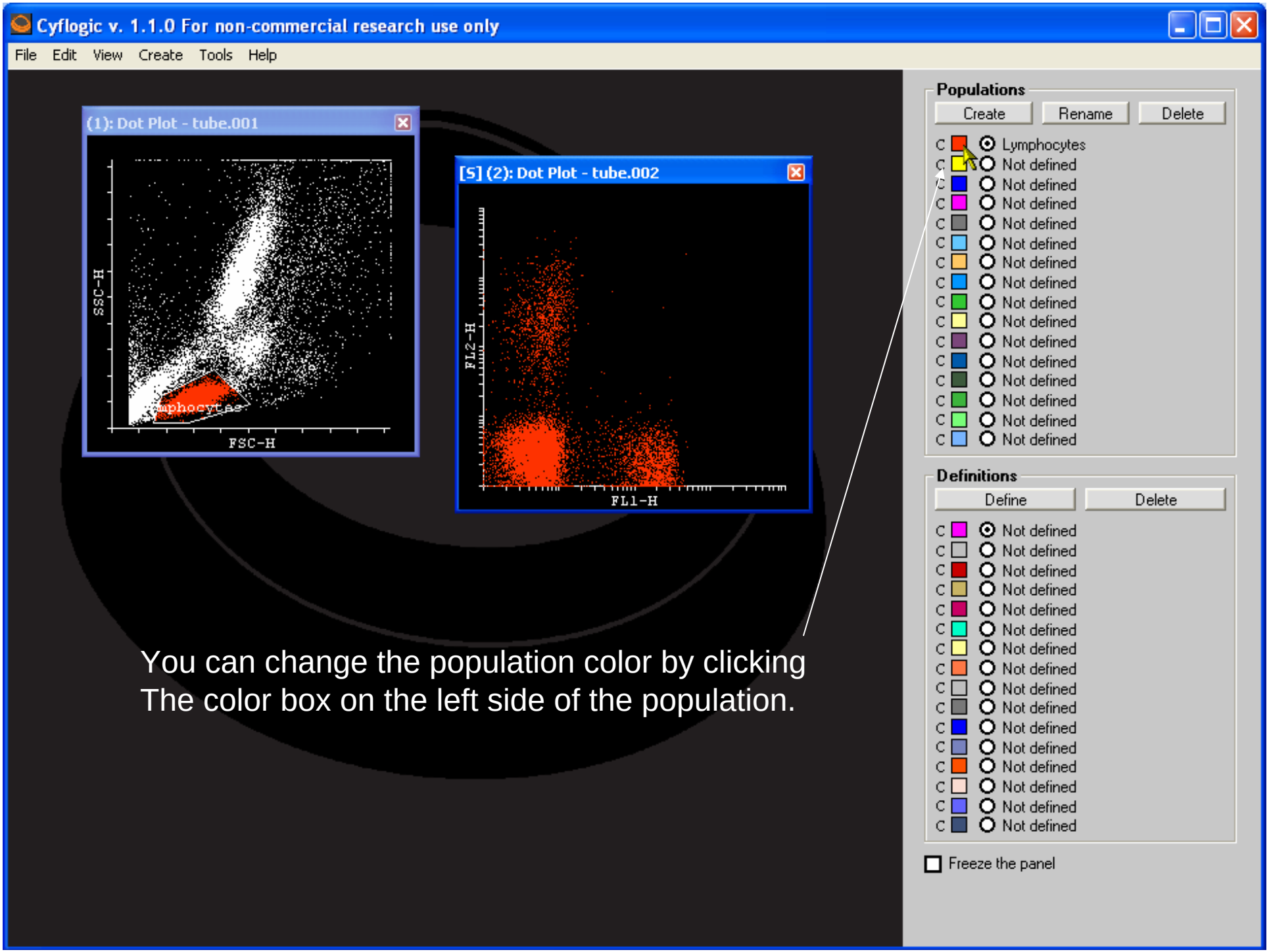

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[S] (1): Dot Plot - tube.001
SSC-H
FSC-H
(2): Dot Plot - tube.002
FL2-H
FL1-H
By pushing the left mouse button on the corner of the polygon the population can be resized.

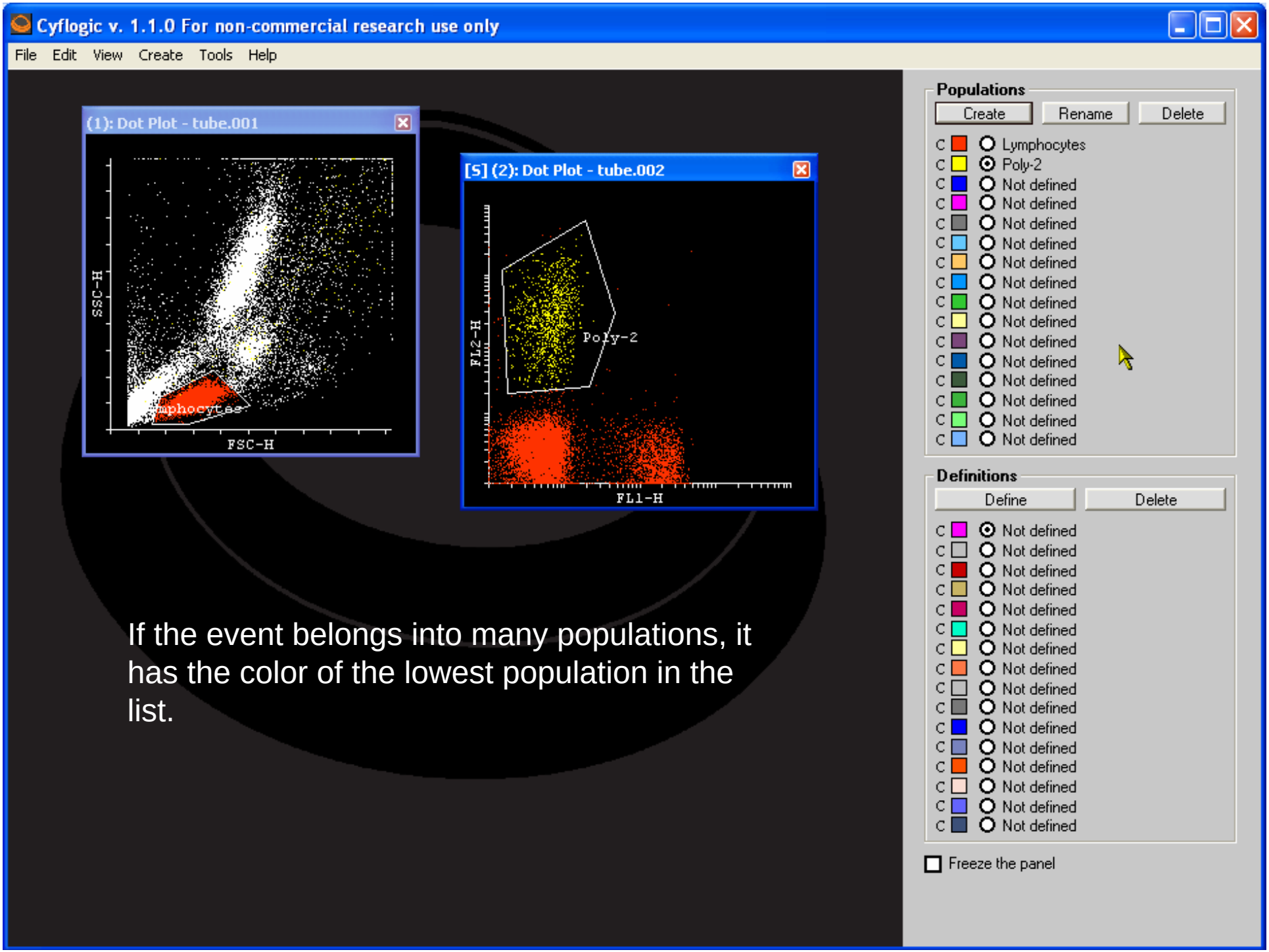

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[S] (1): Dot Plot - tube.001
SSC-H
FSC-H
(2): Dot Plot - tube.002
FL2-H
FL1-H
Pushing the mouse button on the area of the population
the whole population can be moved.

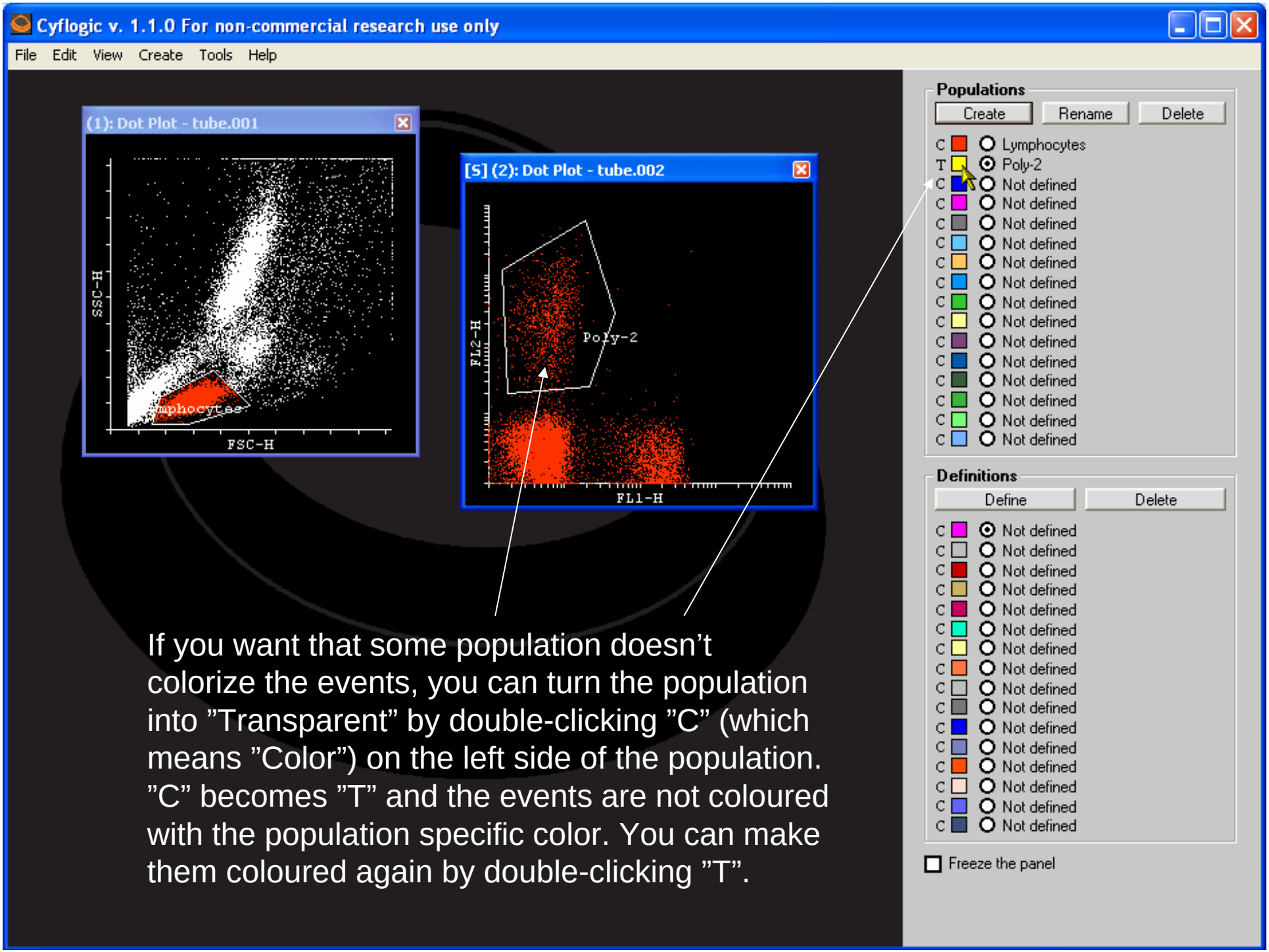

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[S] (1): Dot Plot - tube.001
SSC-H
FSC-H
Poly-1
(2): Dot Plot - tube.002
FL2-H
Rename population
Give a new name for population
OK
Cancel
Lymphocytes
Populations
Create
Rename
Delete
Poly-1
Not defined
Definitions
Define
Delete
Not defined
Freeze the panel
You can rename the populations by selecting the population and pressing ”Rename”. You can delete the selected population by pressing ”Delete”.

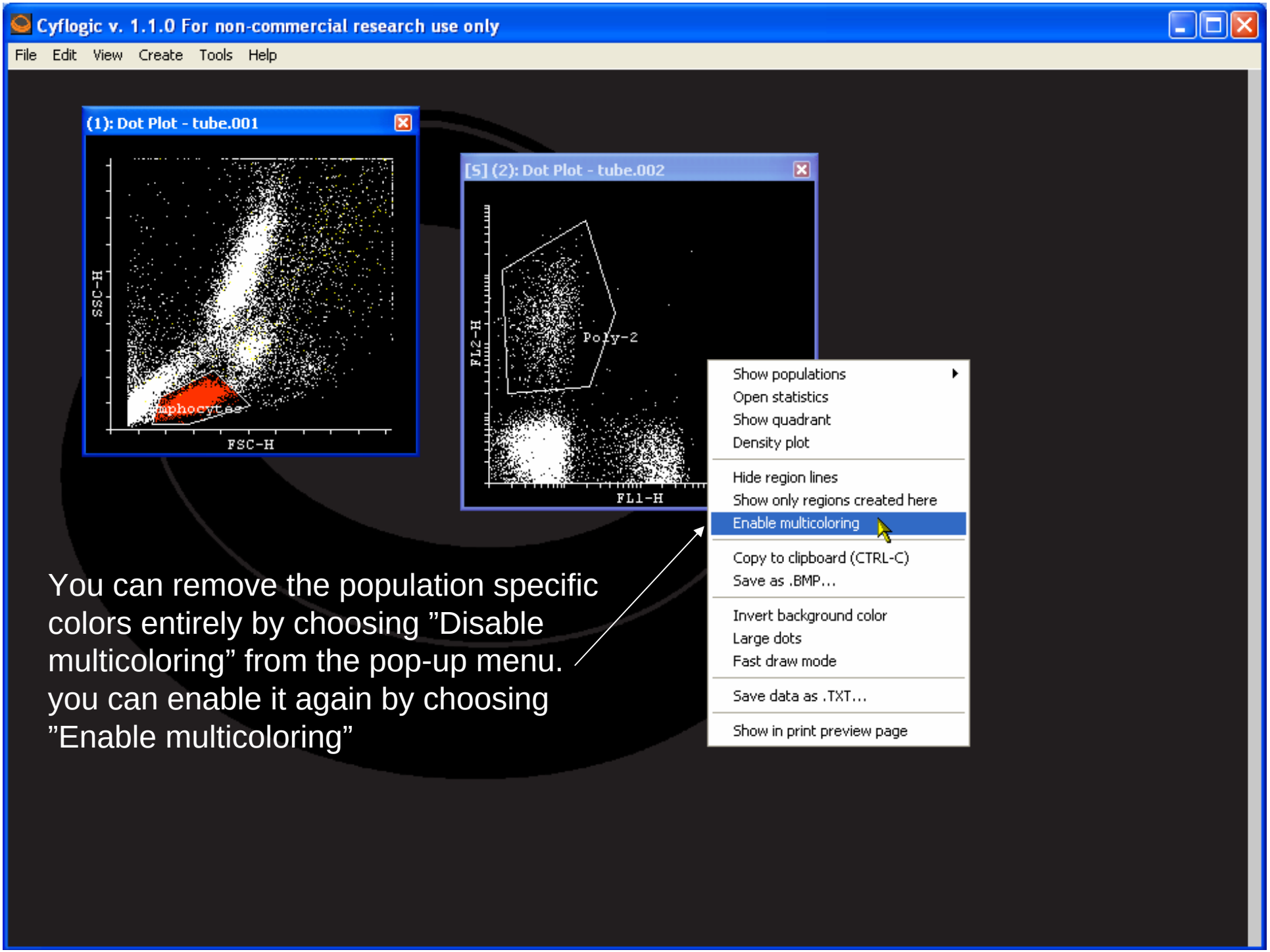


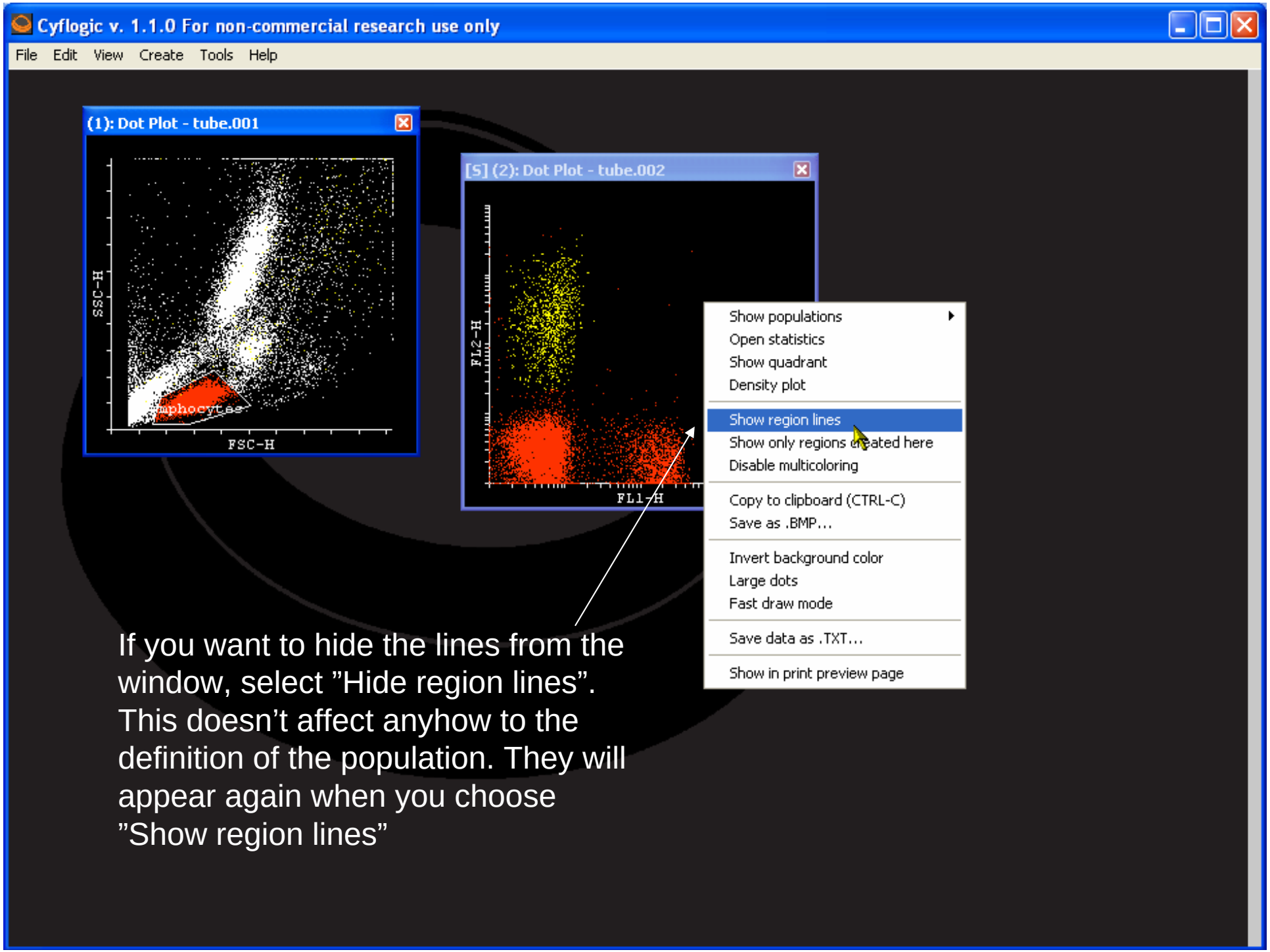
When opening the pop-up menu (by right-clicking the window area) you can select which population can be seen in the window. All defined populations are listed.

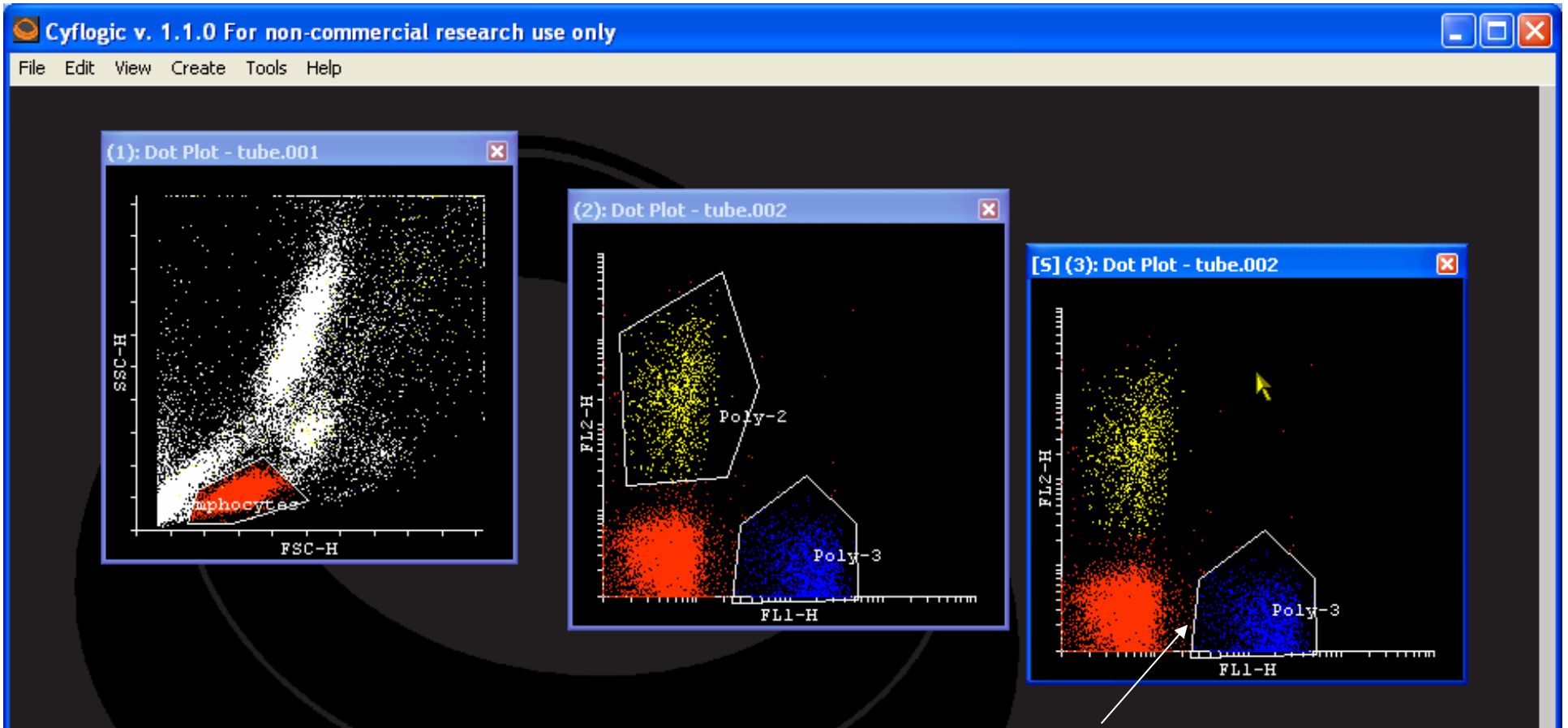

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
FL1-H
Populations
Create
Rename
Delete
Lymphocytes
Not defined
Definitions
Define
Delete
Freeze the panel
You can change the population color by clicking
The color box on the left side of the population.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
Poly-2
FL1-H
Populations
Create Rename Delete
Lymphocytes
Poly-2
Not defined
Definitions
Define Delete
Not defined
Freeze the panel
If the event belongs into many populations, it has the color of the lowest population in the list.

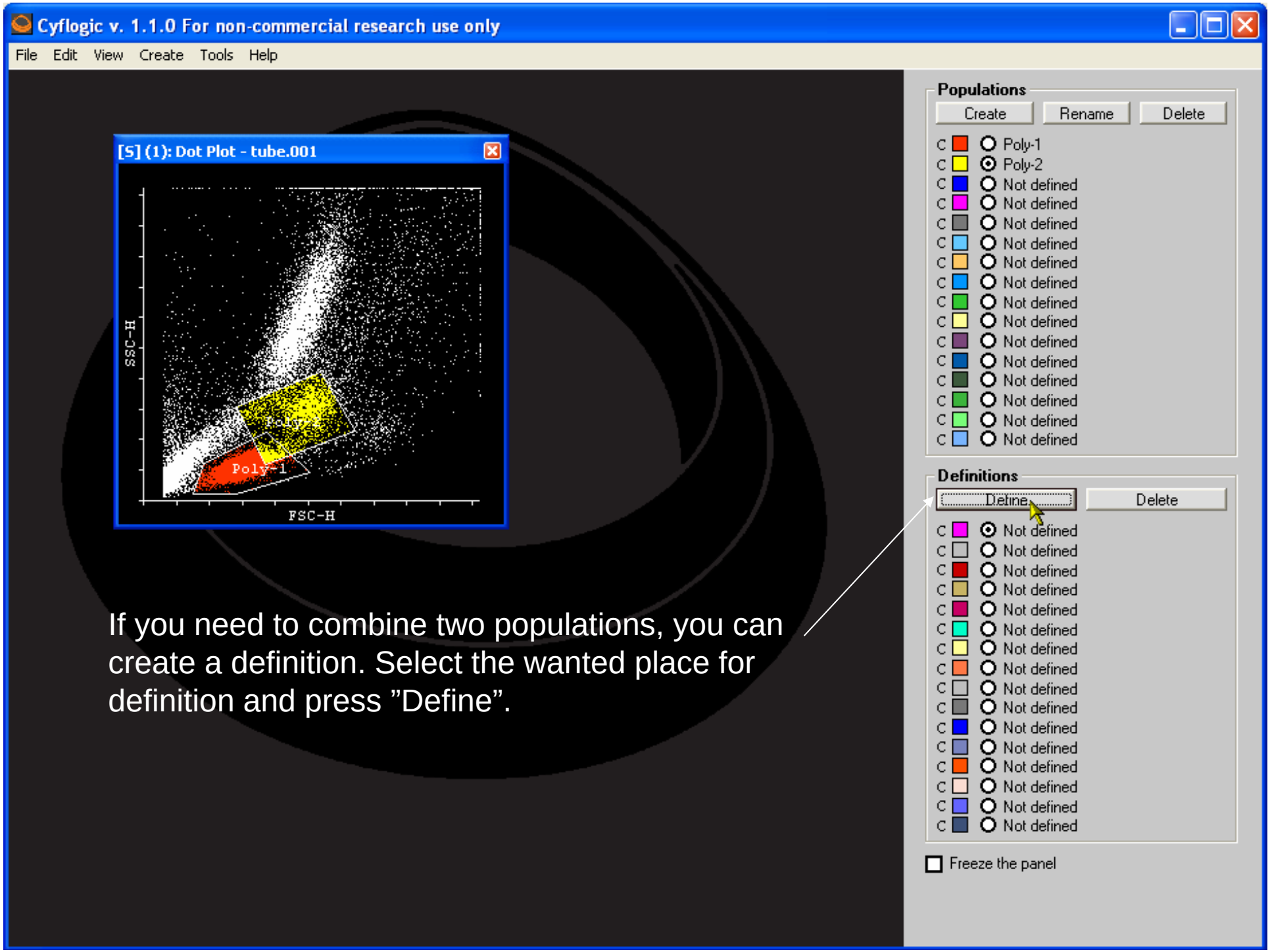

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
Poly-2
FL1-H
Populations
Create Rename Delete
C Lymphocytes
T Poly-2
C Not defined
Definitions
Define Delete
Freeze the panel
If you want that some population doesn't colorize the events, you can turn the population into "Transparent" by double-clicking "C" (which means "Color") on the left side of the population. "C" becomes "T" and the events are not coloured with the population specific color. You can make them coloured again by double-clicking "T".

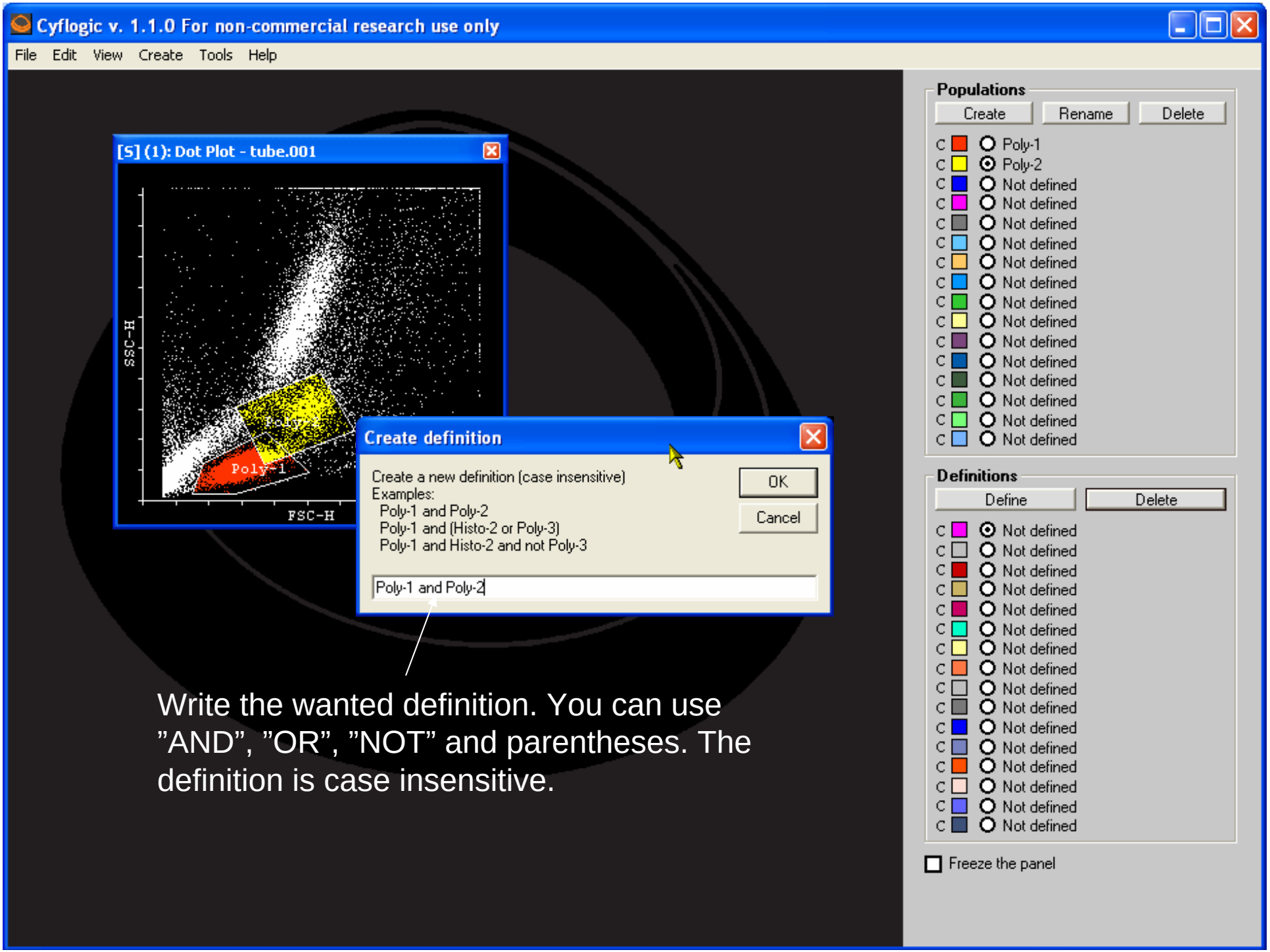

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
FL1-H
Poly-2
Show populations
Open statistics
Show quadrant
Density plot
Hide region lines
Show only regions created here
Enable multicoloring
Copy to clipboard (CTRL-C)
Save as .BMP...
Invert background color
Large dots
Fast draw mode
Save data as .TXT...
Show in print preview page
You can remove the population specific colors entirely by choosing ”Disable multicoloring” from the pop-up menu. you can enable it again by choosing ”Enable multicoloring”

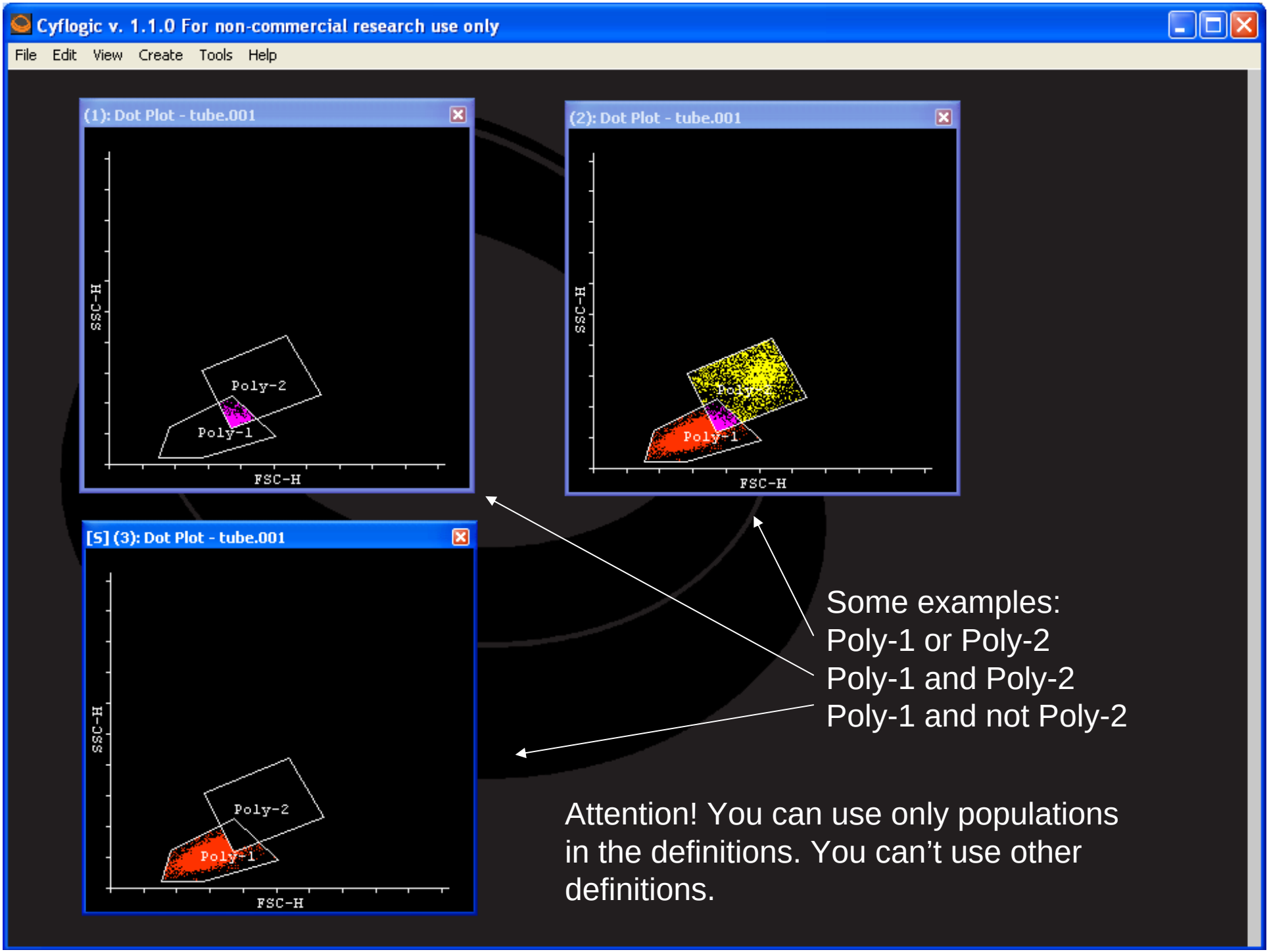

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
[S] (2): Dot Plot - tube.002
FL2-H
FL1-H
Show populations
Open statistics
Show quadrant
Density plot
Show region lines
Show only regions created here
Disable multicoloring
Copy to clipboard (CTRL-C)
Save as .BMP...
Invert background color
Large dots
Fast draw mode
Save data as .TXT...
Show in print preview page
If you want to hide the lines from the window, select ”Hide region lines”. This doesn’t affect anyhow to the definition of the population. They will appear again when you choose ”Show region lines”



The populations are only parameter specific, in other words, they appear in every window having the same parameters (in same order). If you want to hide the unnecessary region lines, you can choose ”Show only regions created here”; only the regions created in that specific window appear.
In the example case, Poly-3 has been created in the rightmost window and the option has been chosen, resulting that only Poly-3 line can be seen. This affects only the visibility of the region lines.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): Dot Plot - tube.001
SSC-H
FSC-H
Poly-2
Poly-1
Populations
Create
Rename
Delete
C Poly-1
C Poly-2
C Not defined
Definitions
Define...
Delete
Freeze the panel
If you need to combine two populations, you can create a definition. Select the wanted place for definition and press ”Define”.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): Dot Plot - tube.001
SSC-H
FSC-H
Poly-1
Create definition
Create a new definition (case insensitive)
Examples:
Poly-1 and Poly-2
Poly-1 and (Histo-2 or Poly-3)
Poly-1 and Histo-2 and not Poly-3
OK
Cancel
Poly-1 and Poly-2
Write the wanted definition. You can use ”AND”, ”OR”, ”NOT” and parentheses. The definition is case insensitive.
Populations
Create
Rename
Delete
Poly-1
Poly-2
Not defined
Definitions
Define
Delete
Not defined
Freeze the panel

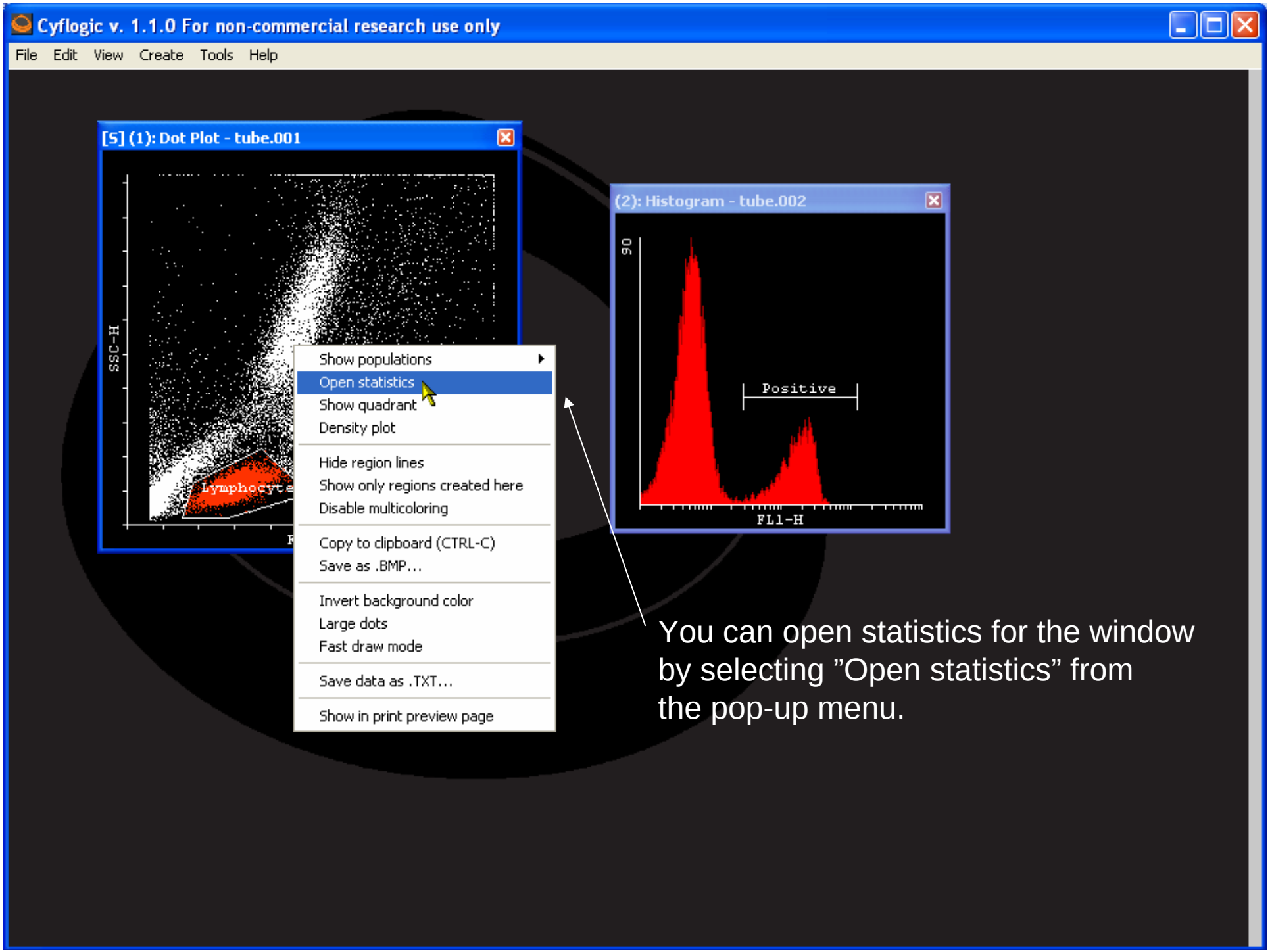

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
Poly-2
Poly-1
(2): Dot Plot - tube.001
SSC-H
FSC-H
Poly-1
[S] (3): Dot Plot - tube.001
SSC-H
FSC-H
Poly-2
Poly-1
Some examples:
Poly-1 or Poly-2
Poly-1 and Poly-2
Poly-1 and not Poly-2
Attention! You can use only populations in the definitions. You can't use other definitions.

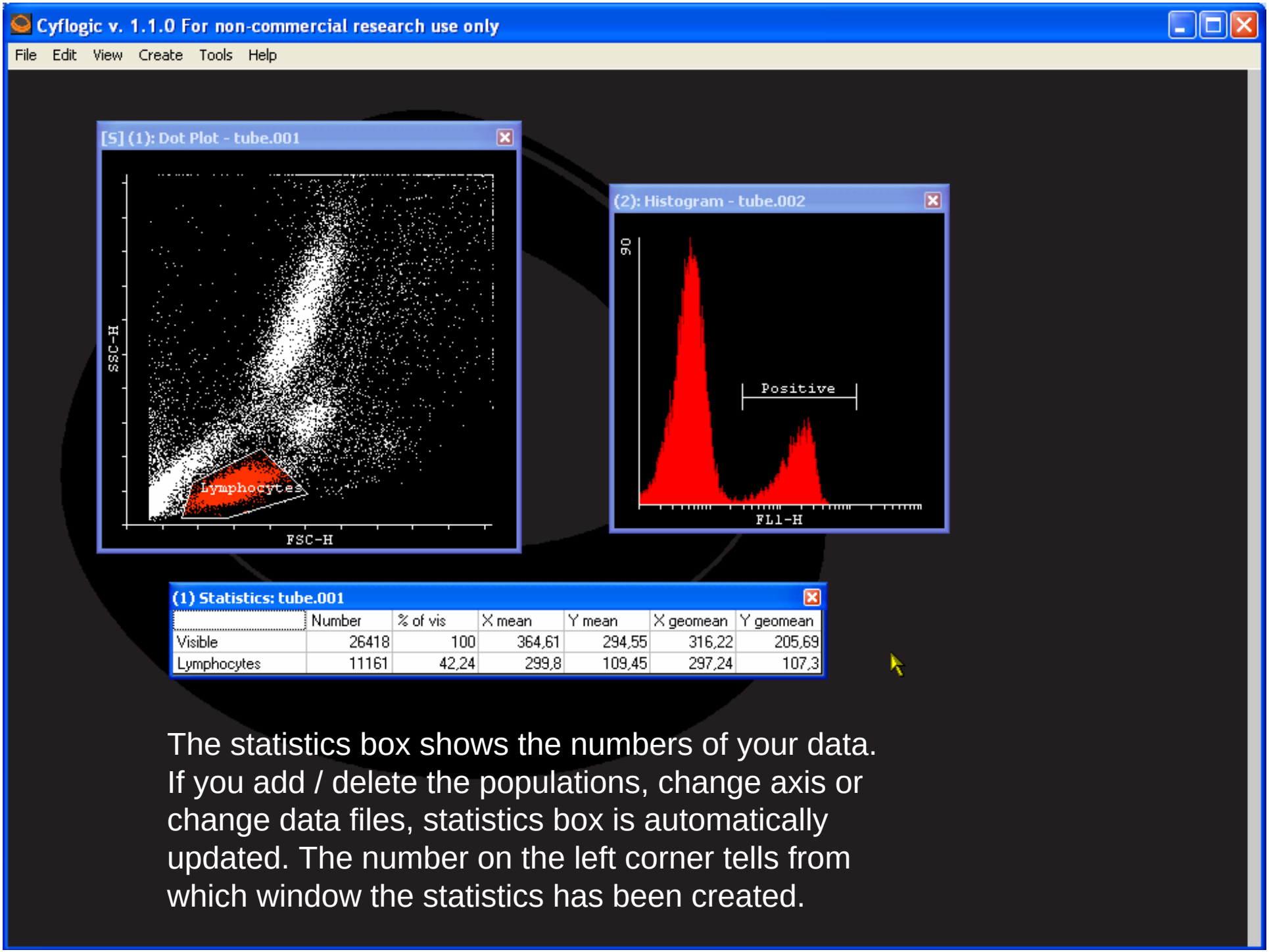
Other population remarks:

If the population is deleted, all definitions which used the deleted population will be also deleted.

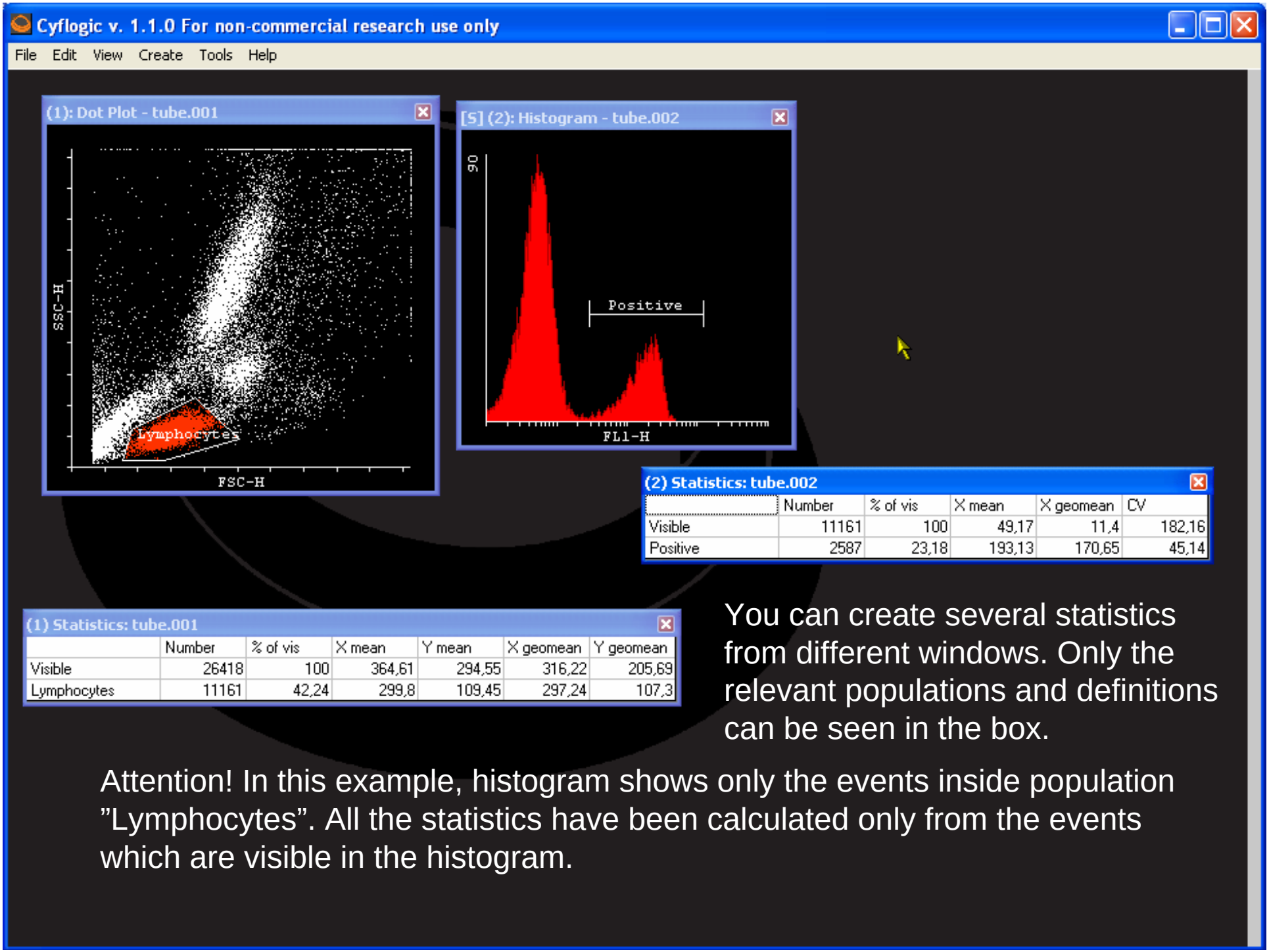
You can define colors for definitions similarly as for populations. You can also make them transparent.

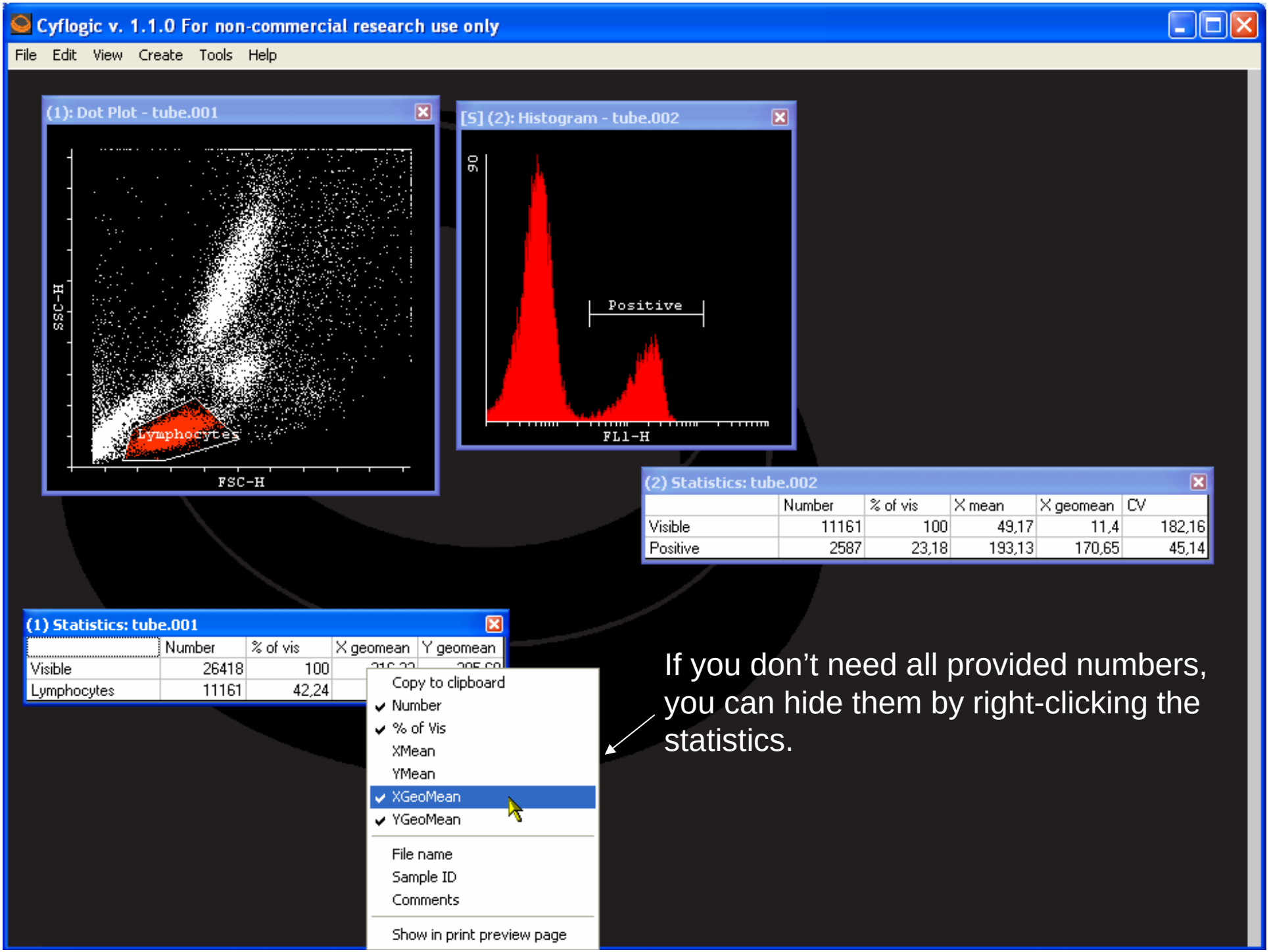
Statistics


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): Dot Plot - tube.001
SSC-H
Lymphocyte
Show populations
Open statistics
Show quadrant
Density plot
Hide region lines
Show only regions created here
Disable multicoloring
Copy to clipboard (CTRL-C)
Save as .BMP...
Invert background color
Large dots
Fast draw mode
Save data as .TXT...
Show in print preview page
(2): Histogram - tube.002
90
Positive
FL1-H
You can open statistics for the window by selecting ”Open statistics” from the pop-up menu.



The statistics box shows the numbers of your data. If you add / delete the populations, change axis or change data files, statistics box is automatically updated. The number on the left corner tells from which window the statistics has been created.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
Lymphocytes
[S] (2): Histogram - tube.002
90
Positive
FL1-H
(2) Statistics: tube.002
Number % of vis X mean X geomean CV
Visible 11161 100 49,17 11,4 182,16
Positive 2587 23,18 193,13 170,65 45,14
(1) Statistics: tube.001
Number % of vis X mean Y mean X geomean Y geomean
Visible 26418 100 364,61 294,55 316,22 205,69
Lymphocytes 11161 42,24 299,8 109,45 297,24 107,3
You can create several statistics from different windows. Only the relevant populations and definitions can be seen in the box.
Attention! In this example, histogram shows only the events inside population ”Lymphocytes”. All the statistics have been calculated only from the events which are visible in the histogram.

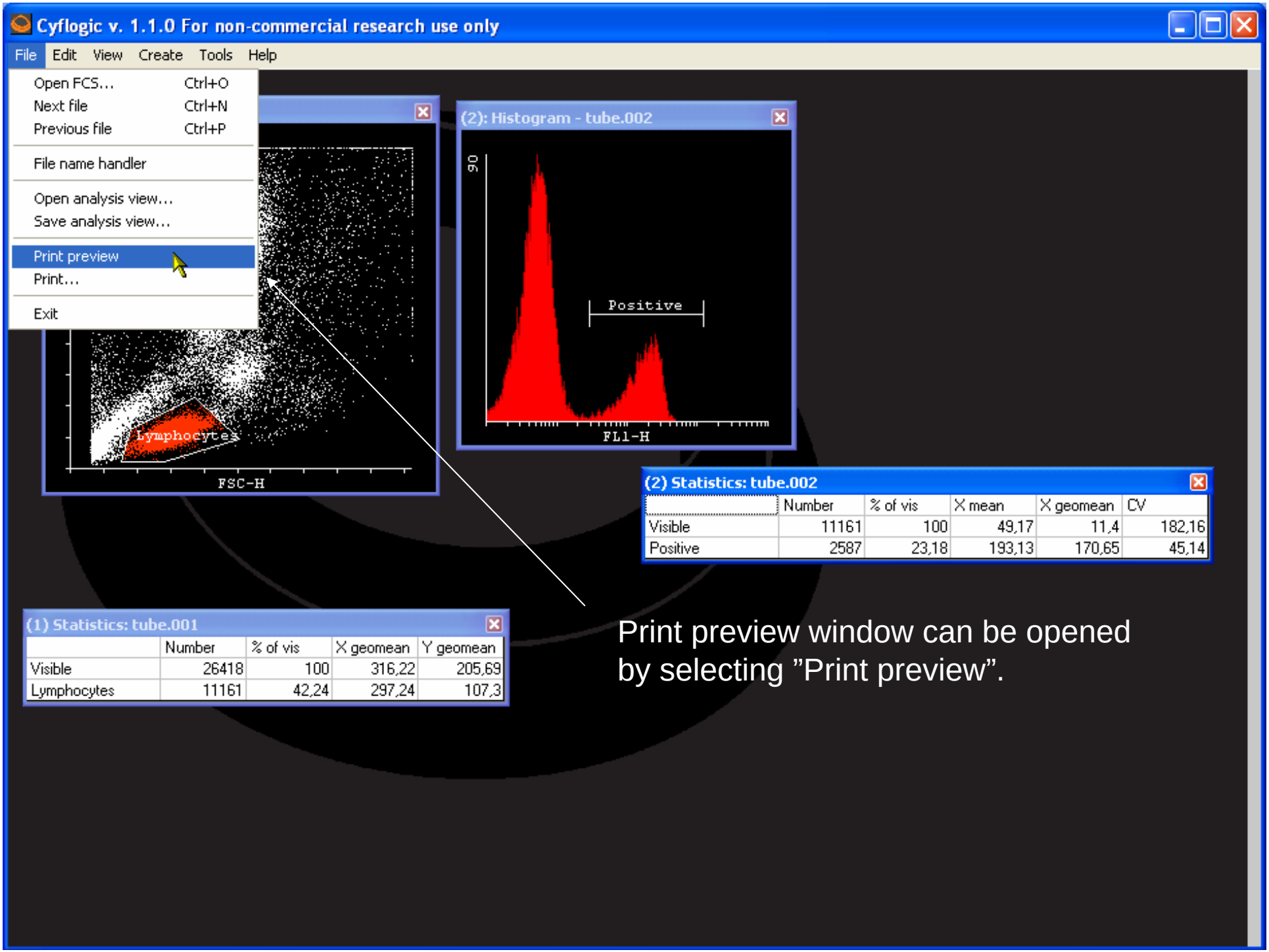

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - tube.001
SSC-H
FSC-H
Lymphocytes
[S] (2): Histogram - tube.002
90
Positive
FL1-H
(2) Statistics: tube.002
Number % of vis X mean X geomean CV
Visible 11161 100 49,17 11,4 182,16
Positive 2587 23,18 193,13 170,65 45,14
(1) Statistics: tube.001
Number % of vis X geomean Y geomean
Visible 26418 100
Lymphocytes 11161 42,24
Copy to clipboard
Number
% of Vis
XMean
YMean
XGeoMean
YGeoMean
File name
Sample ID
Comments
Show in print preview page
If you don't need all provided numbers, you can hide them by right-clicking the statistics.

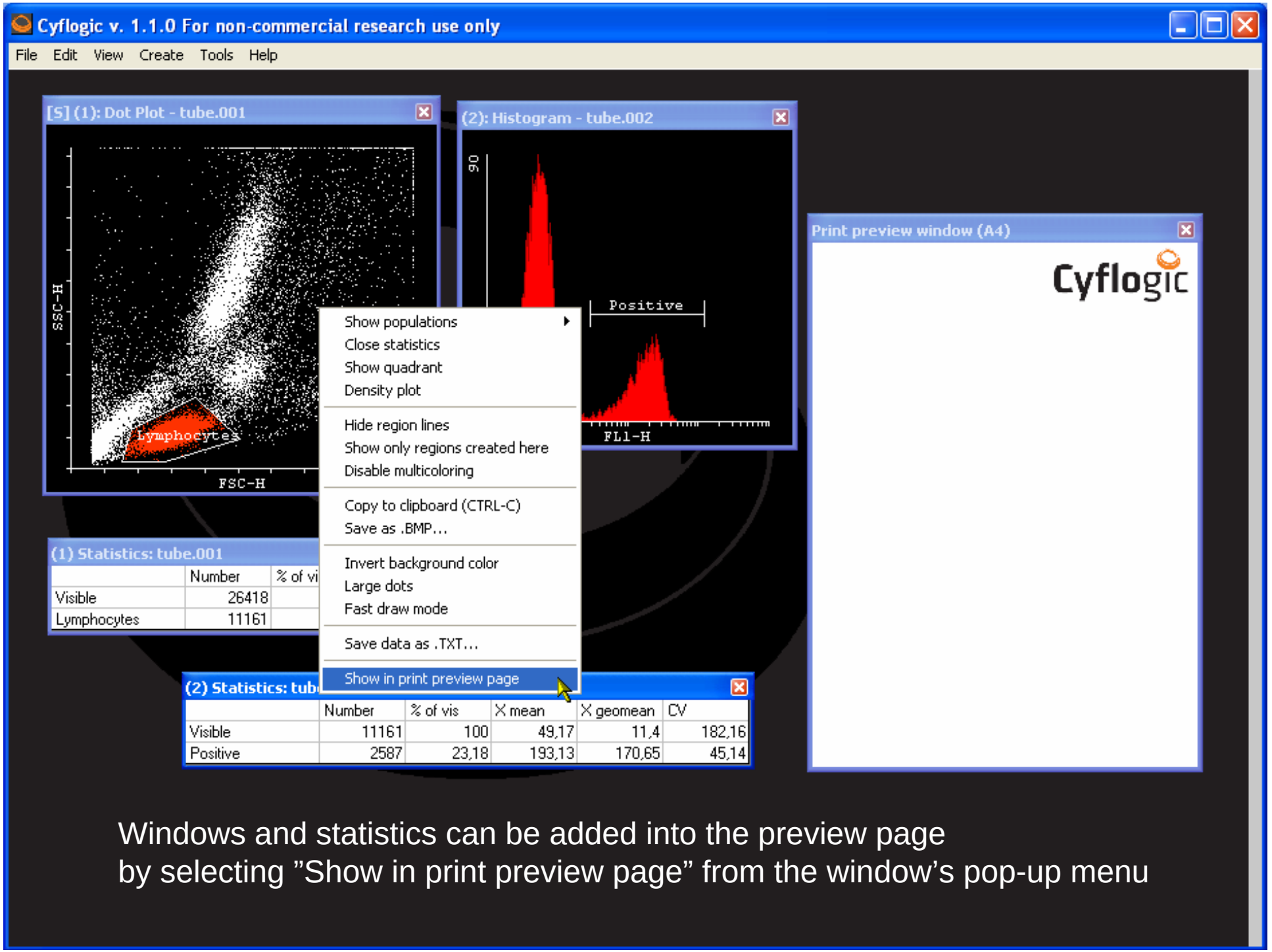
Other statistics remarks:

You can copy the contents of statistics window by selecting ”Copy to clipboard” from pop-up menu or by pressing CTRL-C when the wanted window is active.

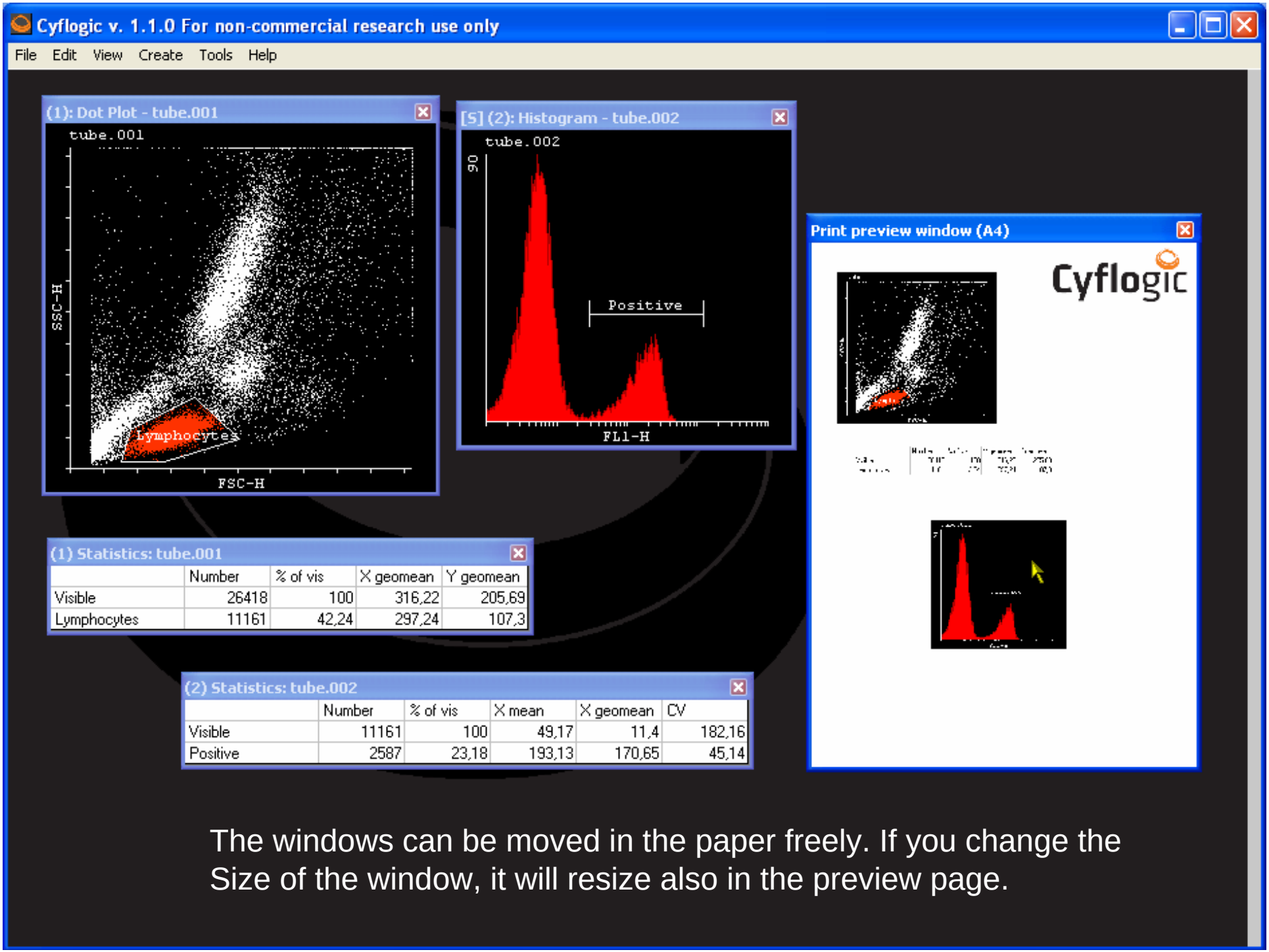
If the window which has created the statistics is closed, the statistics is also closed.

Printing

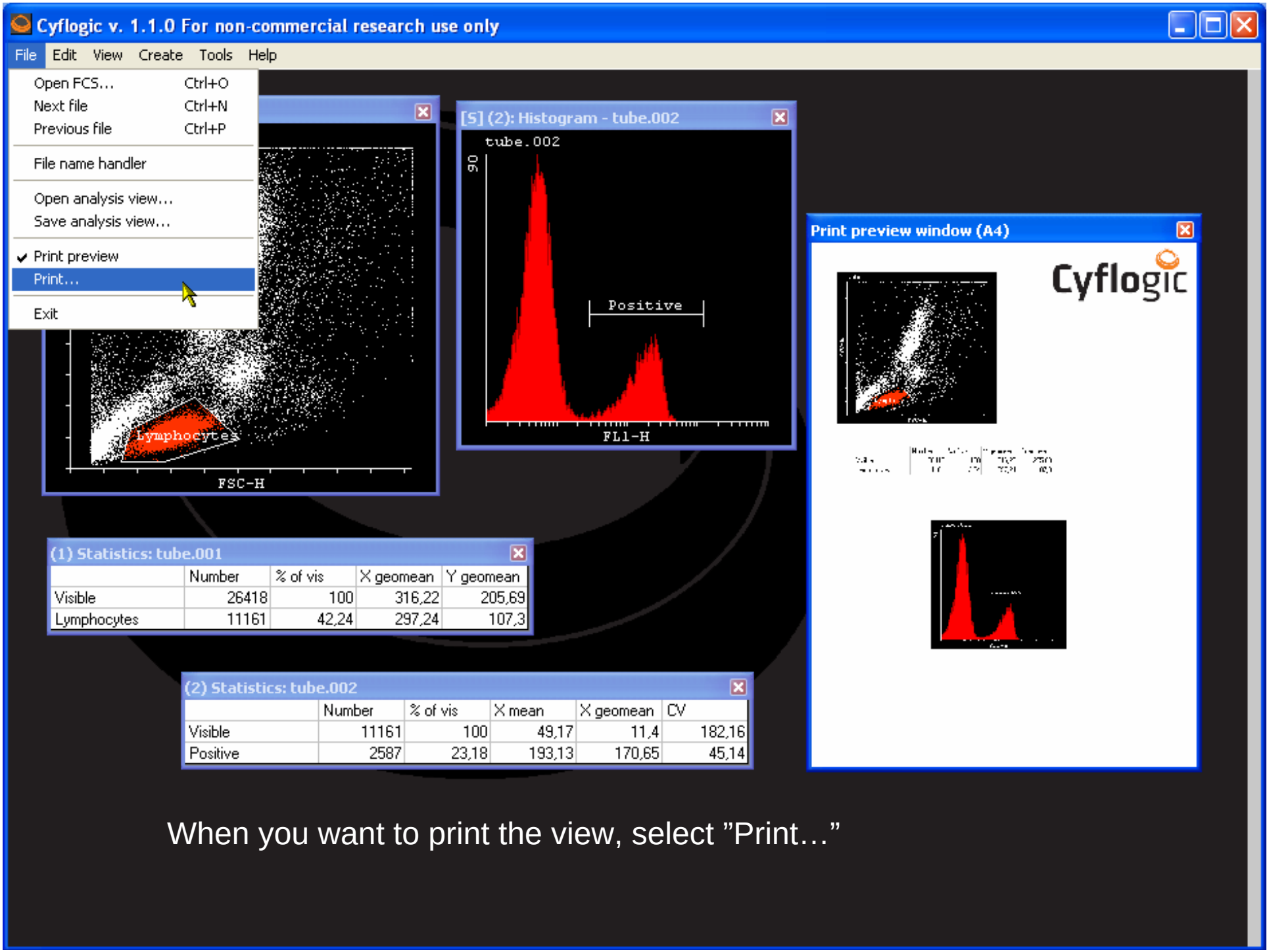

Cyflogic v. 1.1.0 For non-commercial research use only
File
Edit
View
Create
Tools
Help
Open FCS... Ctrl+O
Next file Ctrl+N
Previous file Ctrl+P
File name handler
Open analysis view...
Save analysis view...
Print preview
Print...
Exit
Lymphocytes
FSC-H
(2): Histogram - tube.002
90
Positive
FL1-H
(2) Statistics: tube.002
Number % of vis X mean X geomean CV
Visible 11161 100 49,17 11,4 182,16
Positive 2587 23,18 193,13 170,65 45,14
(1) Statistics: tube.001
Number % of vis X geomean Y geomean
Visible 26418 100 316,22 205,69
Lymphocytes 11161 42,24 297,24 107,3
Print preview window can be opened by selecting ”Print preview”.



Windows and statistics can be added into the preview page
by selecting ”Show in print preview page” from the window’s pop-up menu



The windows can be moved in the paper freely. If you change the Size of the window, it will resize also in the preview page.



When you want to print the view, select ”Print…”

Large files

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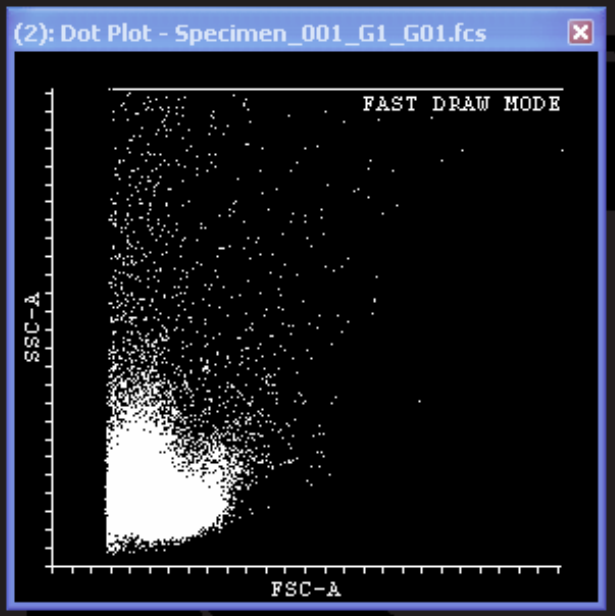
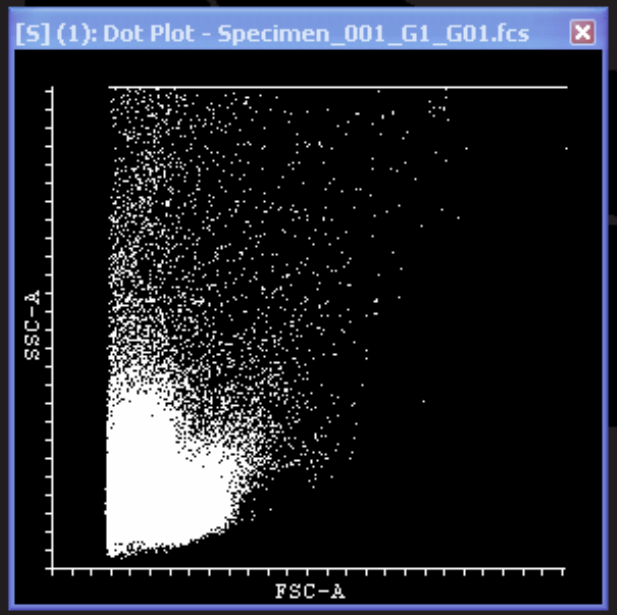
File Edit View Create Tools Help



(2) Statistics: Specimen_001_G1_G01.fcs

FAST DRAW	Number	% of vis	X mean	Y mean	X geomean	Y geomean
Visible	35434	100	61699,44	50189,72	56964,94	39482,82

If you load FCS file containing more than 50000 events, the window is switched into ”Fast draw mode”. Only every n:th event is drawn and statistics are calculated from those drawn events.

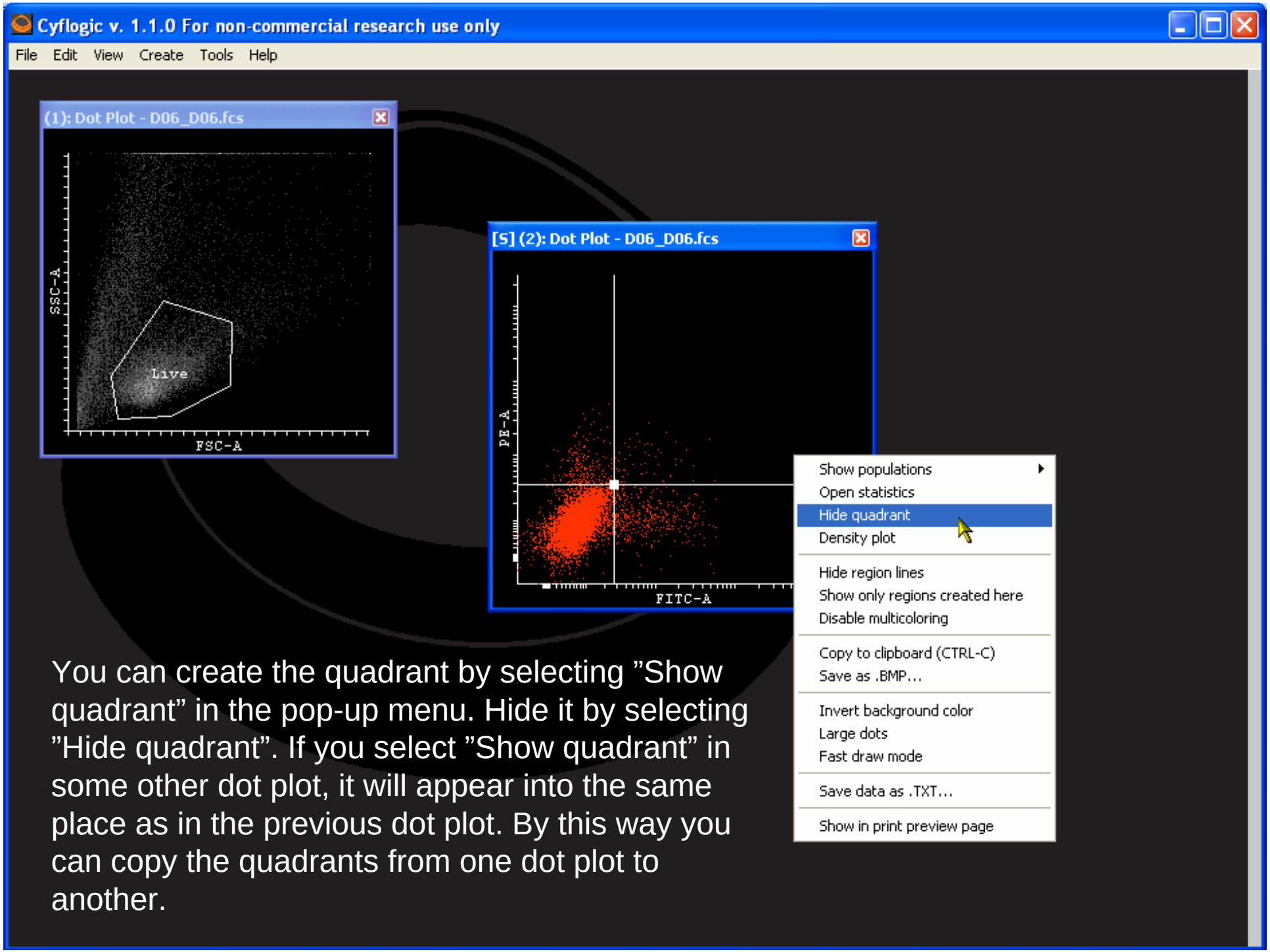


(1) Statistics: Specimen_001_G1_G01.fcs

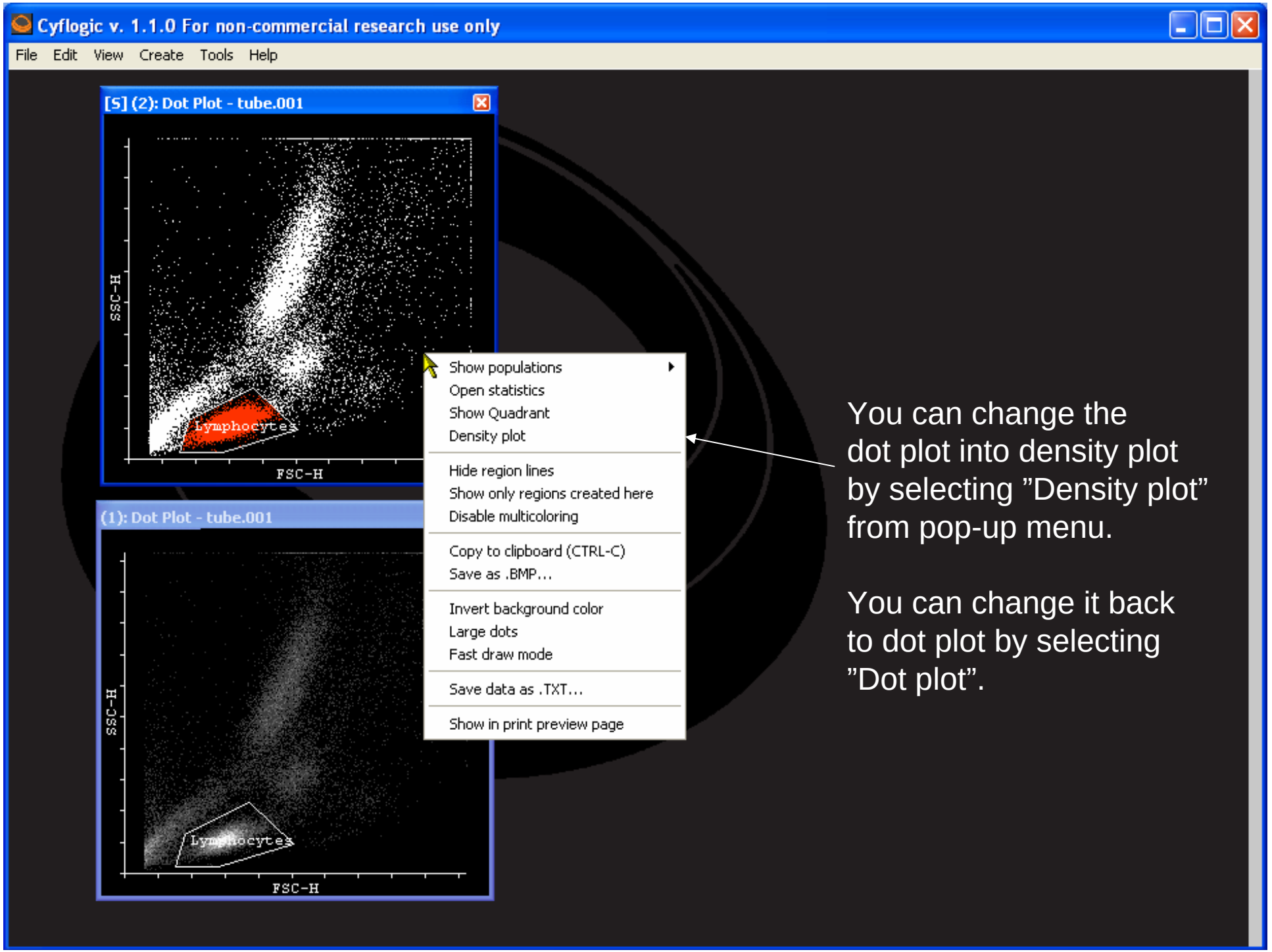
	Number	% of vis	X mean	Y mean	X geomean	Y geomean
Visible	106302	100	61856,46	50178,78	57112,58	39501,62

By selecting ”Full draw mode” all events are drawn and the statistics are counted from every event.

Dot plot features

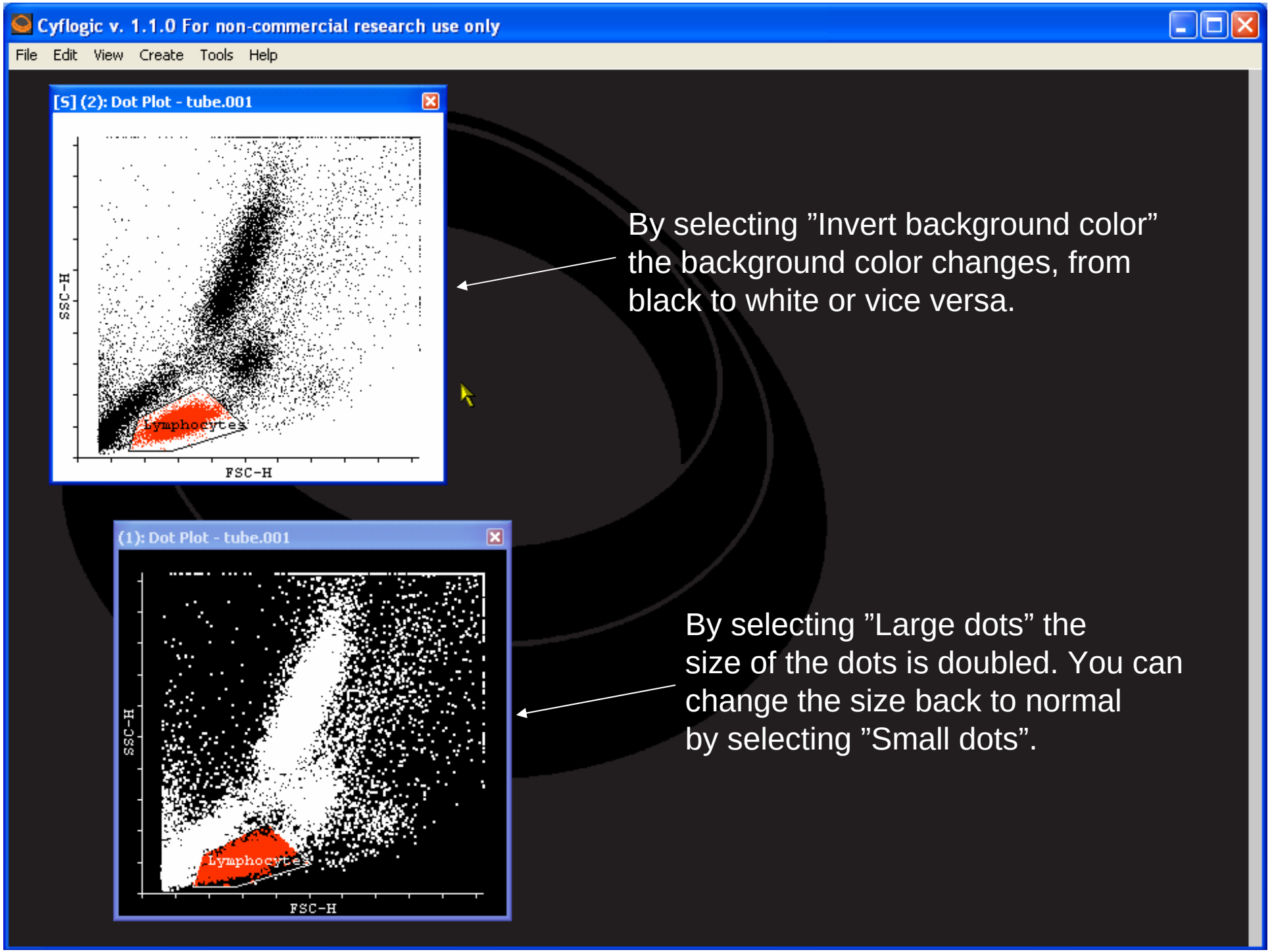


You can create the quadrant by selecting ”Show quadrant” in the pop-up menu. Hide it by selecting ”Hide quadrant”. If you select ”Show quadrant” in some other dot plot, it will appear into the same place as in the previous dot plot. By this way you can copy the quadrants from one dot plot to another.



You can change the dot plot into density plot by selecting ”Density plot” from pop-up menu.

You can change it back to dot plot by selecting ”Dot plot”.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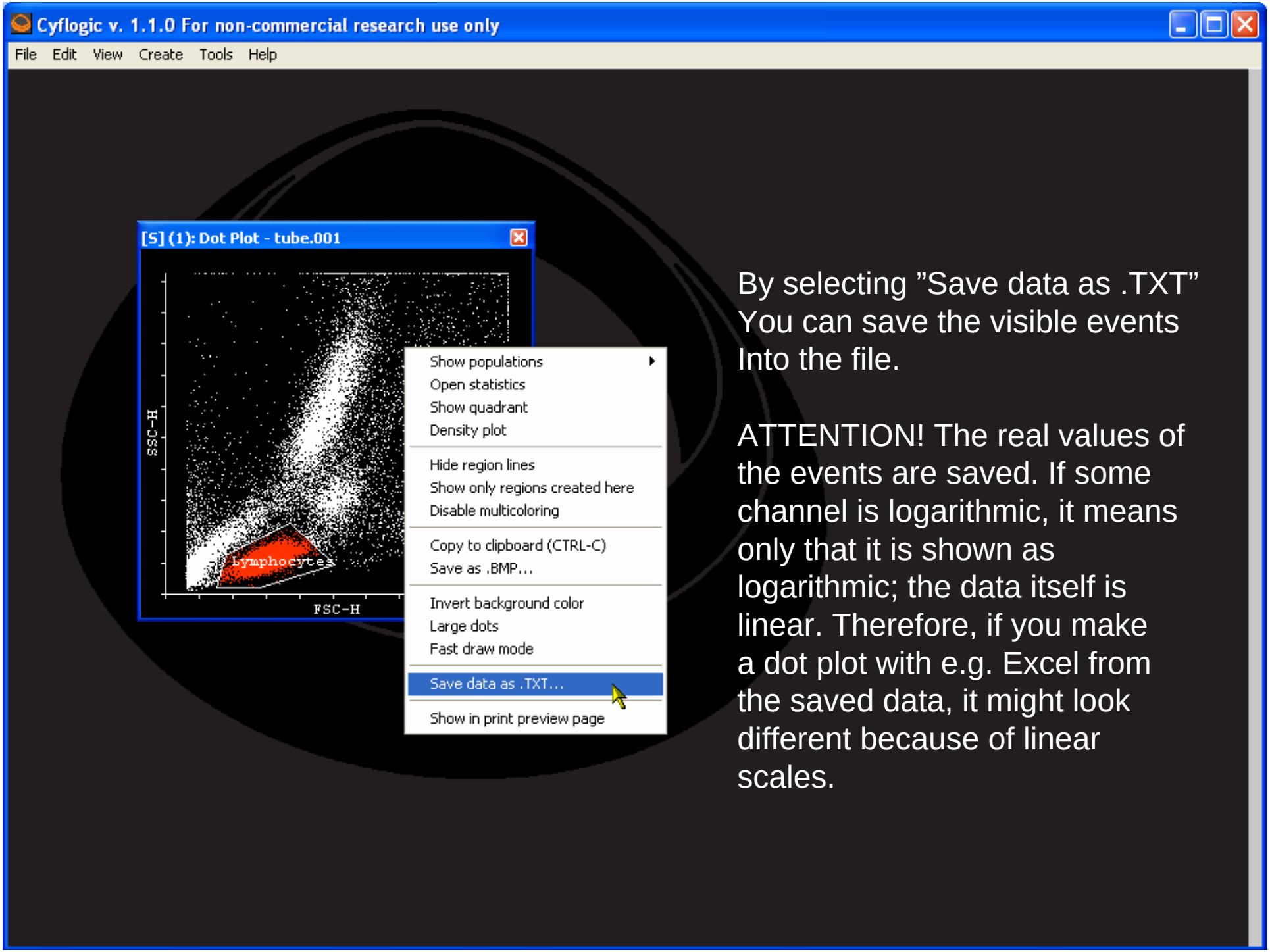
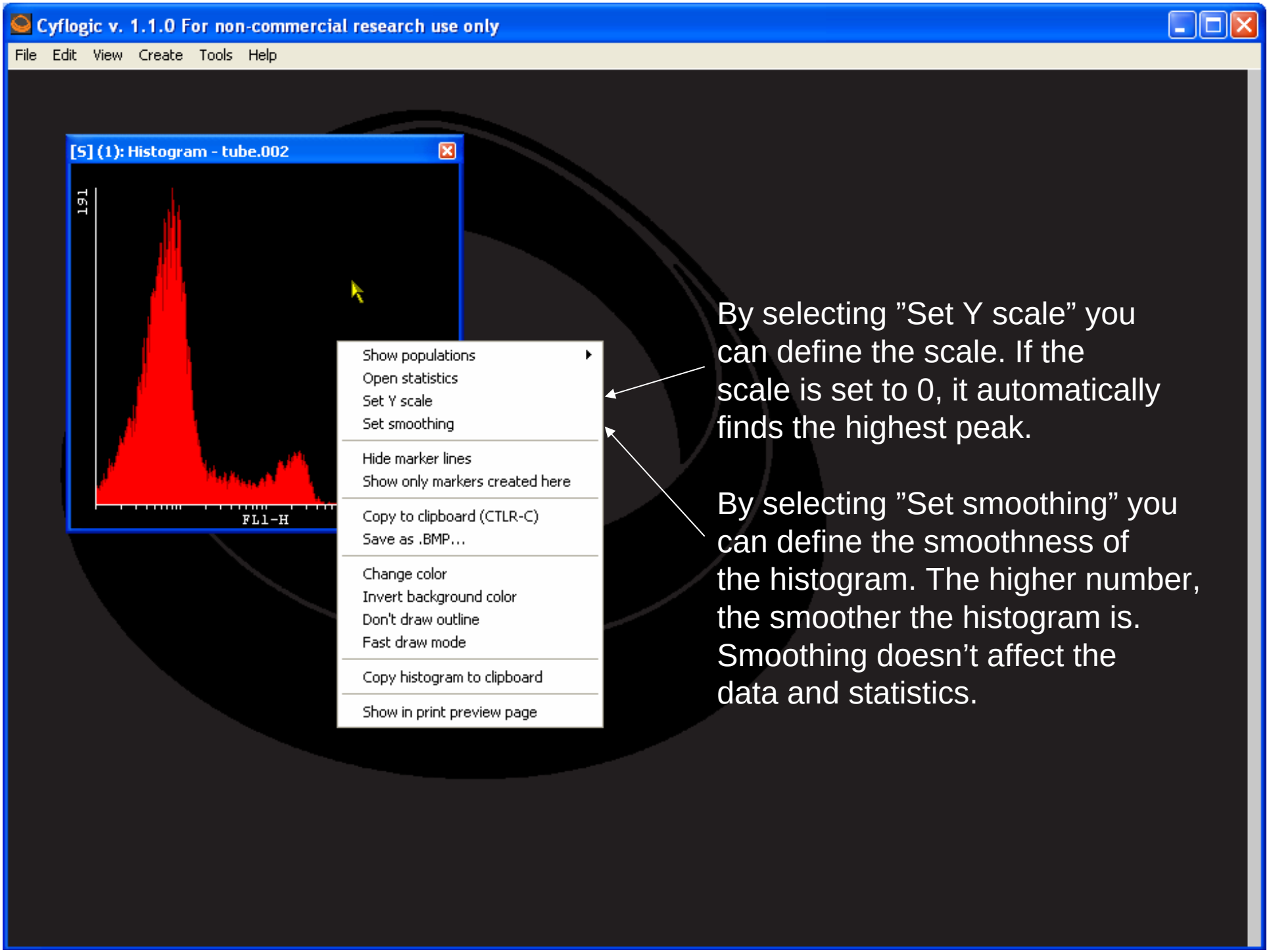
File Edit View Create Tools Help
[5] (2): Dot Plot - tube.001
SSC-H
FSC-H
Lymphocytes
By selecting ”Invert background color” the background color changes, from black to white or vice versa.
(1): Dot Plot - tube.001
SSC-H
FSC-H
Lymphocytes
By selecting ”Large dots” the size of the dots is doubled. You can change the size back to normal by selecting ”Small dots”.



By selecting ”Save data as .TXT” You can save the visible events Into the file.

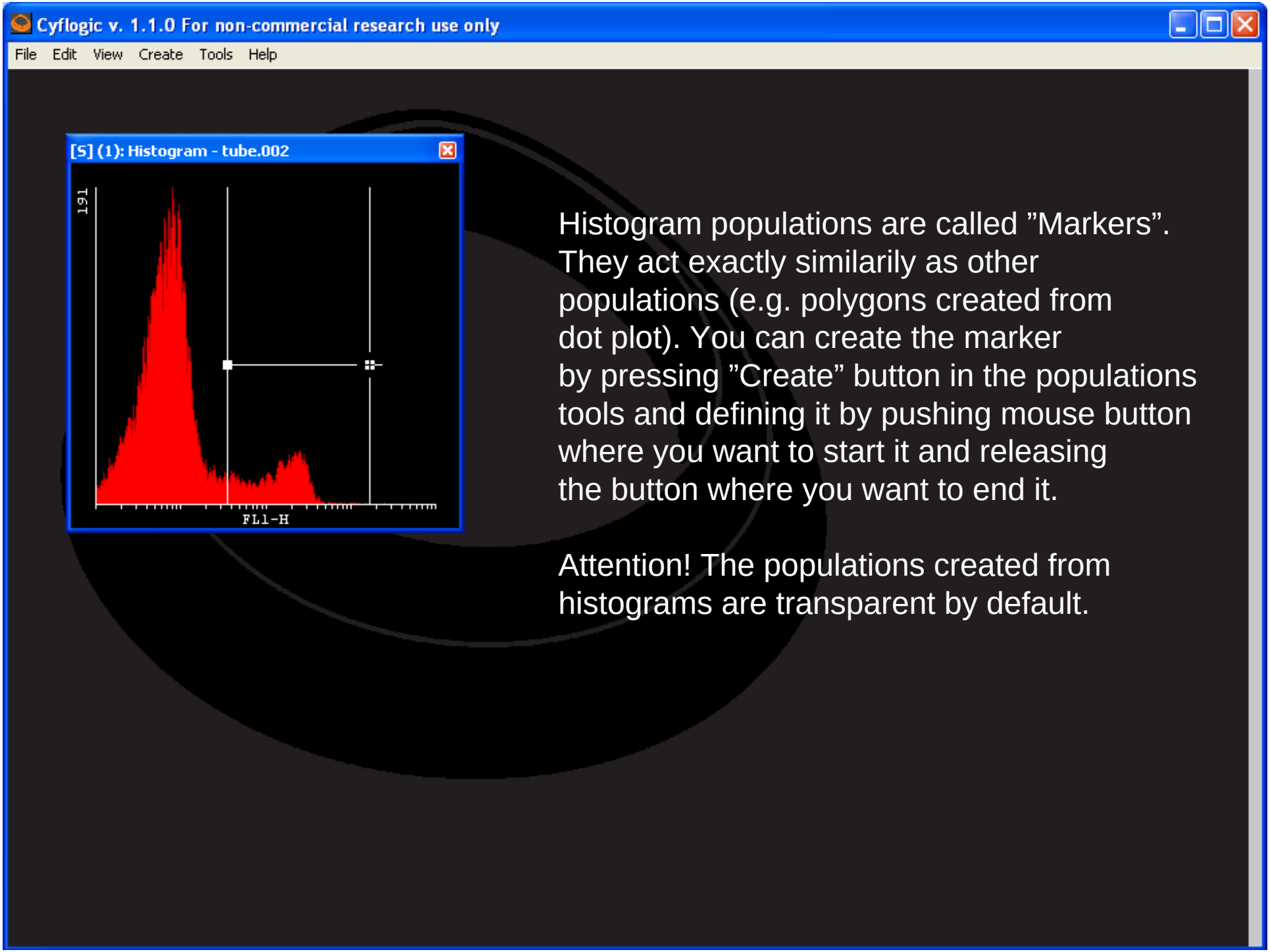
ATTENTION! The real values of the events are saved. If some channel is logarithmic, it means only that it is shown as logarithmic; the data itself is linear. Therefore, if you make a dot plot with e.g. Excel from the saved data, it might look different because of linear scales.

Histogram features



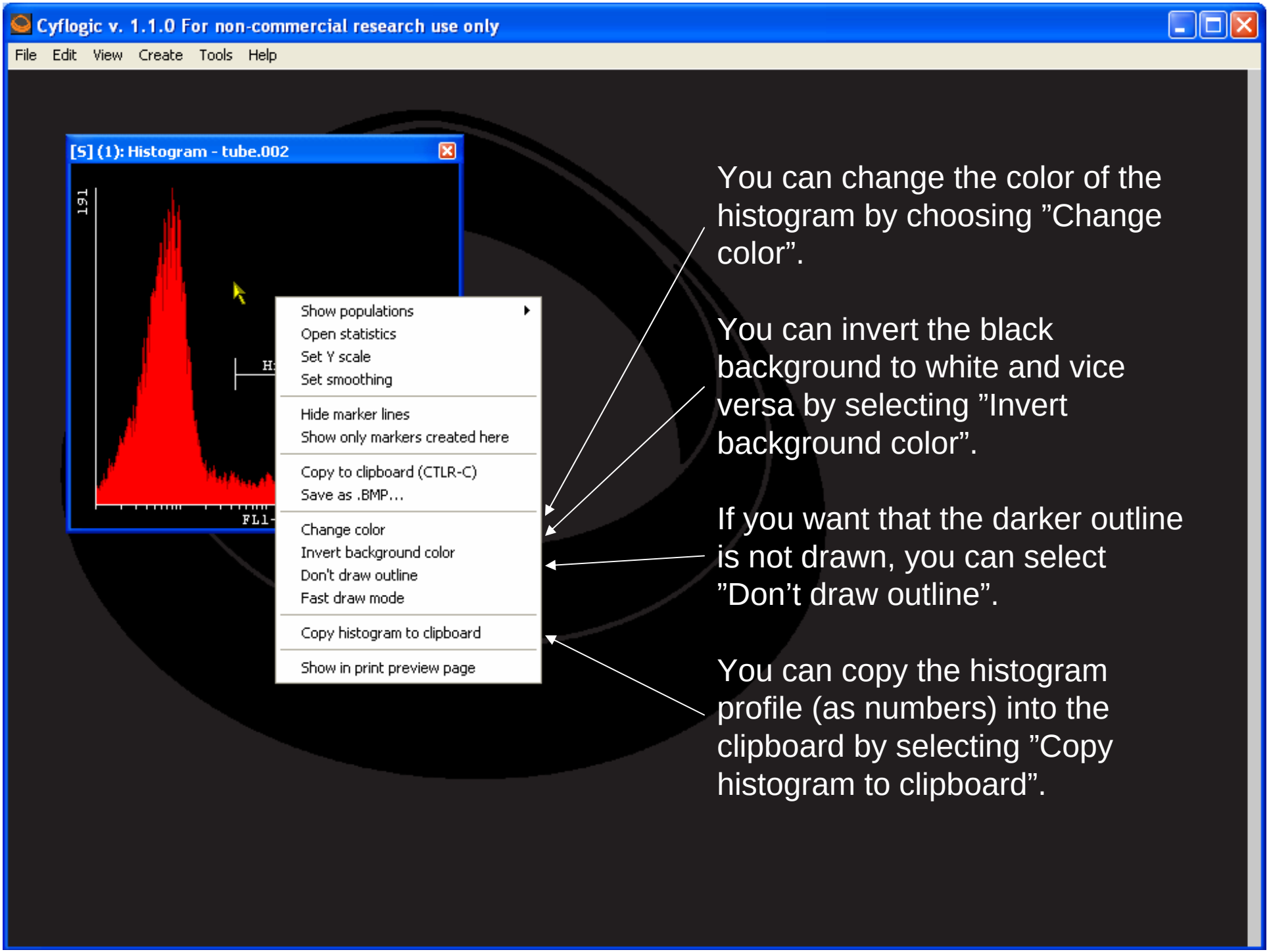
By selecting ”Set Y scale” you can define the scale. If the scale is set to 0, it automatically finds the highest peak.

By selecting ”Set smoothing” you can define the smoothness of the histogram. The higher number, the smoother the histogram is. Smoothing doesn’t affect the data and statistics.

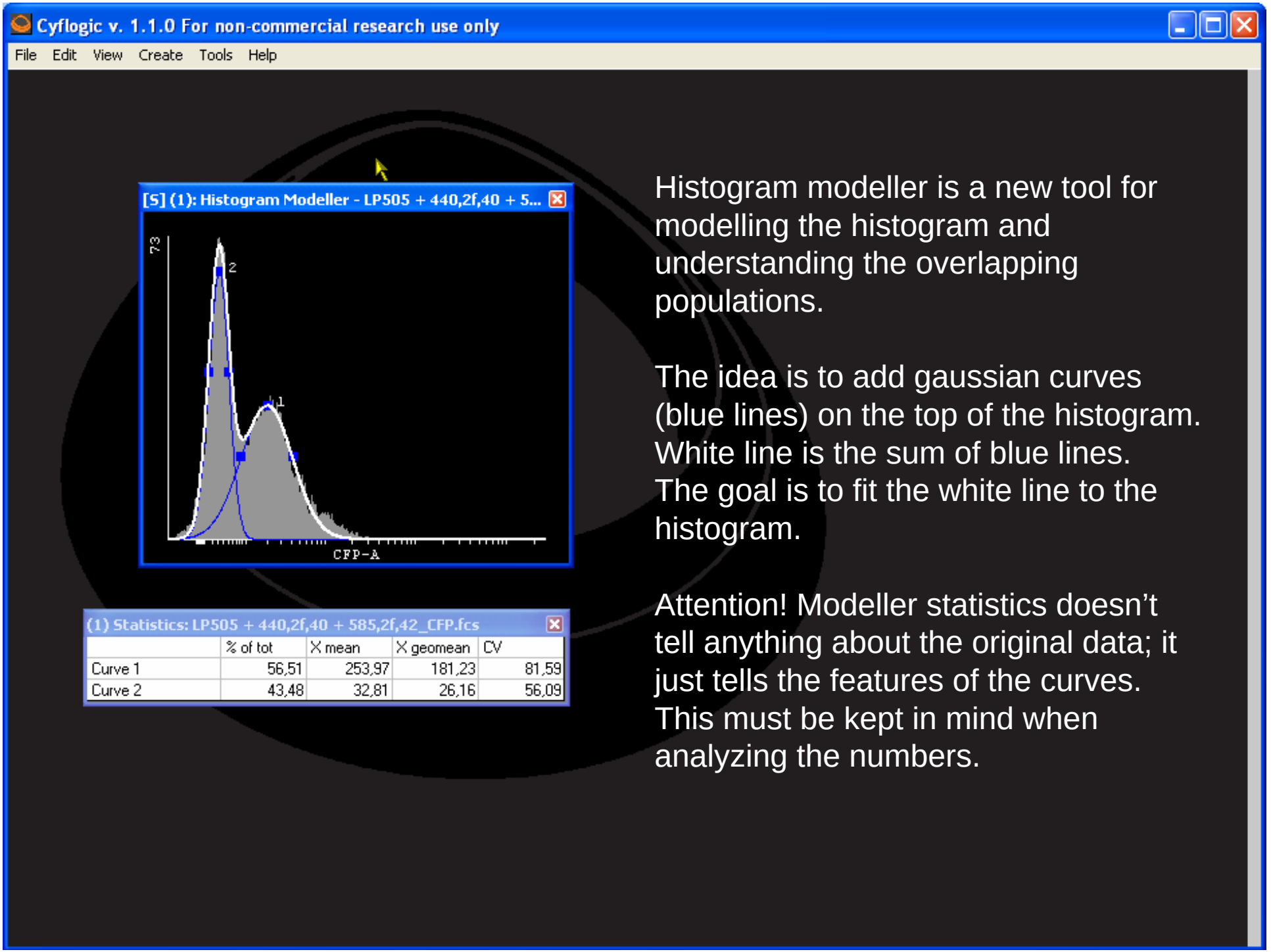


Histogram populations are called ”Markers”. They act exactly similarily as other populations (e.g. polygons created from dot plot). You can create the marker by pressing ”Create” button in the populations tools and defining it by pushing mouse button where you want to start it and releasing the button where you want to end it.

Attention! The populations created from histograms are transparent by default.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): Histogram - tube.002
191
Show populations
Open statistics
Set Y scale
Set smoothing
Hide marker lines
Show only markers created here
Copy to clipboard (CTLR-C)
Save as .BMP...
Change color
Invert background color
Don't draw outline
Fast draw mode
Copy histogram to clipboard
Show in print preview page
You can change the color of the histogram by choosing ”Change color”.
You can invert the black background to white and vice versa by selecting ”Invert background color”.
If you want that the darker outline is not drawn, you can select ”Don’t draw outline”.
You can copy the histogram profile (as numbers) into the clipboard by selecting ”Copy histogram to clipboard”.

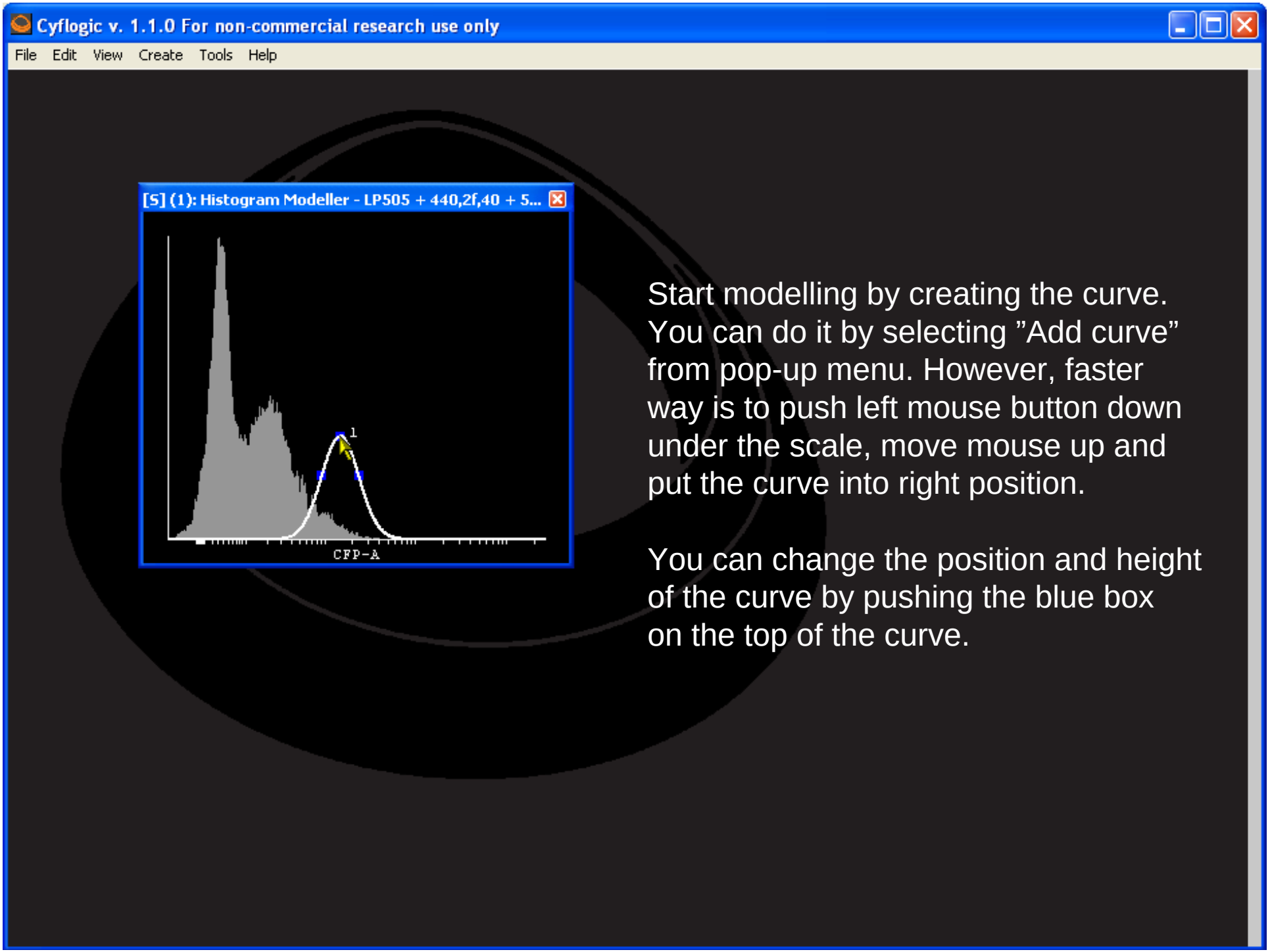
Histogram modeller features



Histogram modeller is a new tool for modelling the histogram and understanding the overlapping populations.

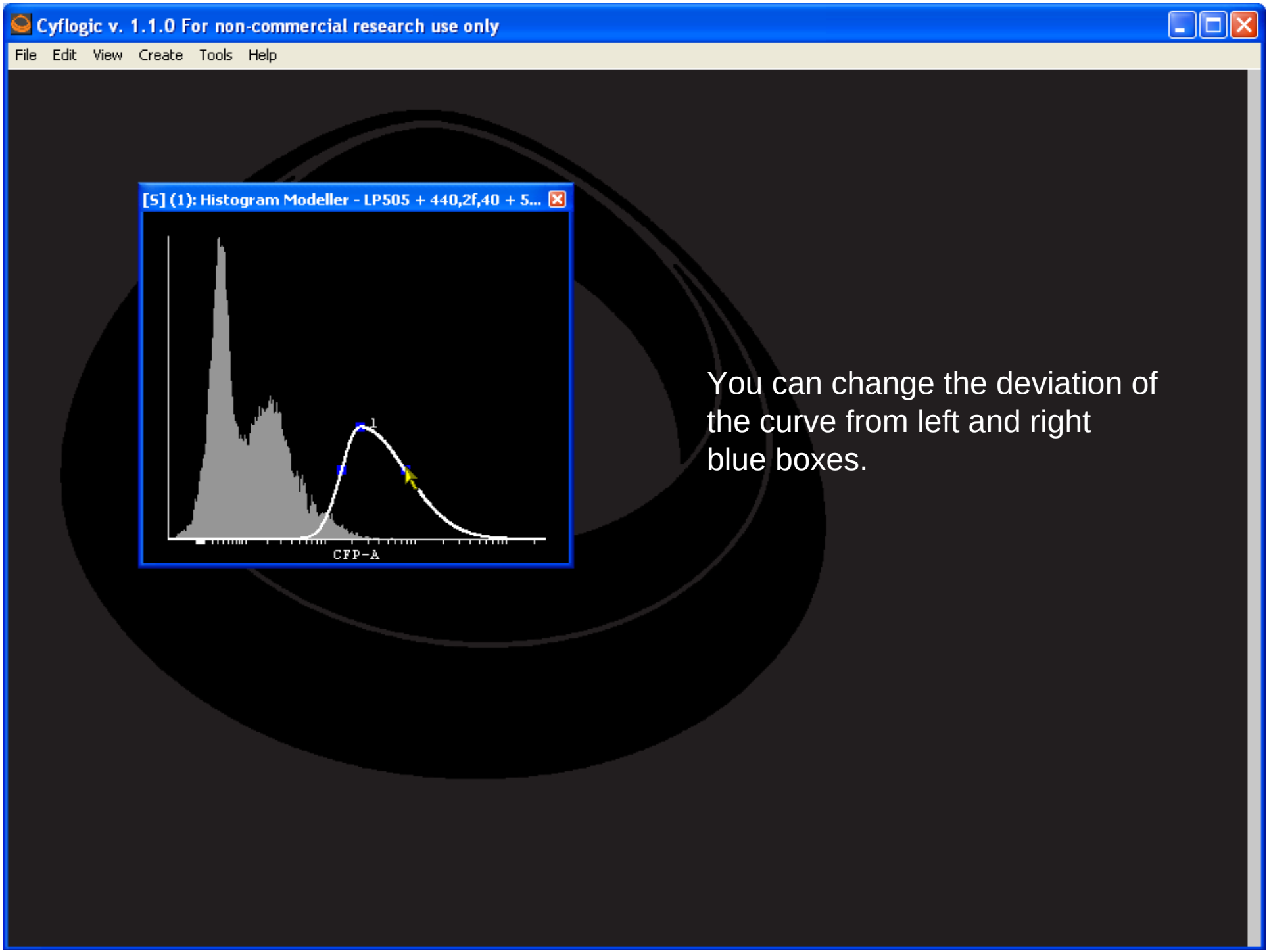
The idea is to add gaussian curves (blue lines) on the top of the histogram. White line is the sum of blue lines. The goal is to fit the white line to the histogram.

Attention! Modeller statistics doesn't tell anything about the original data; it just tells the features of the curves. This must be kept in mind when analyzing the numbers.

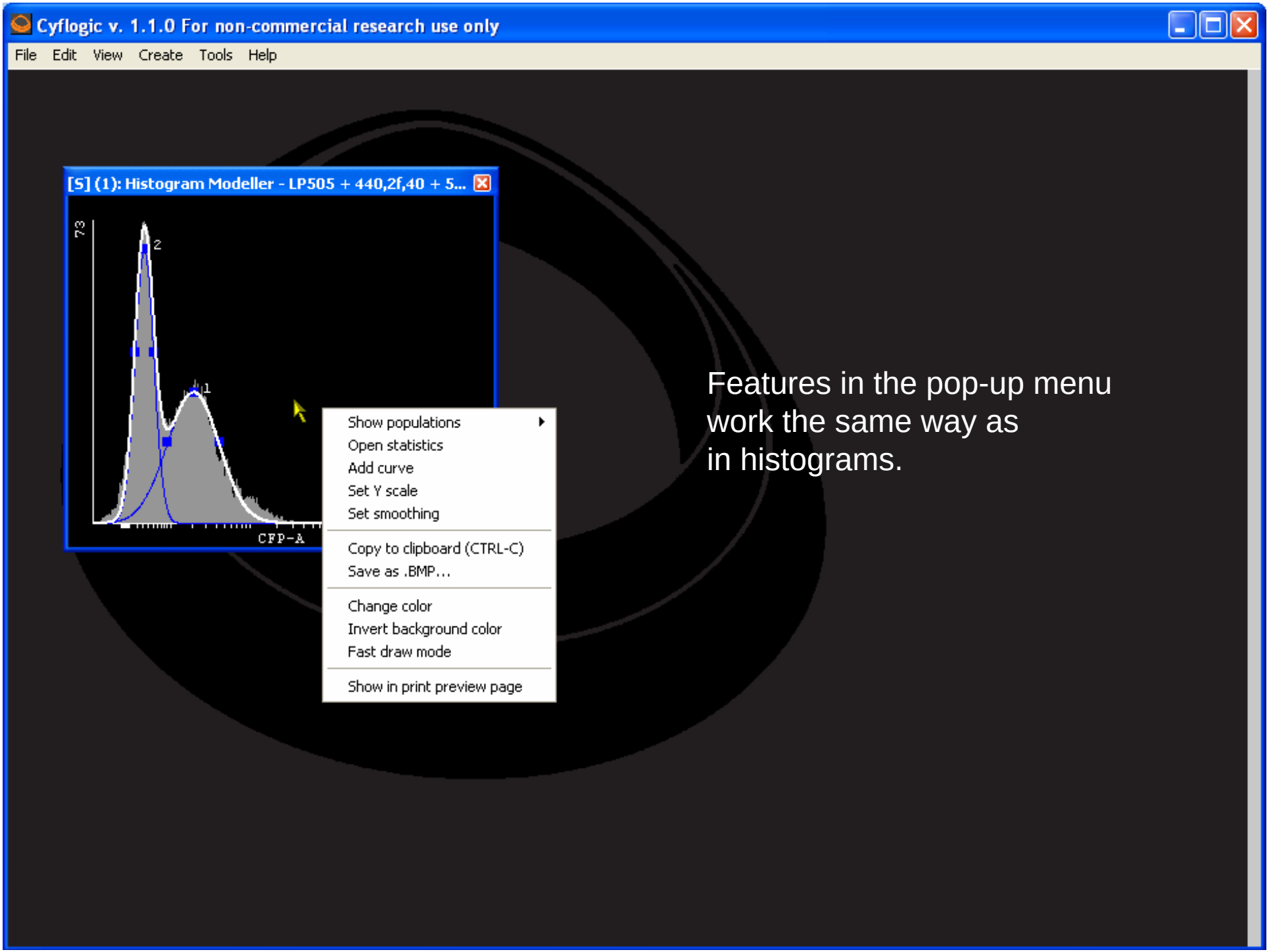


Start modelling by creating the curve. You can do it by selecting ”Add curve” from pop-up menu. However, faster way is to push left mouse button down under the scale, move mouse up and put the curve into right position.

You can change the position and height of the curve by pushing the blue box on the top of the curve.

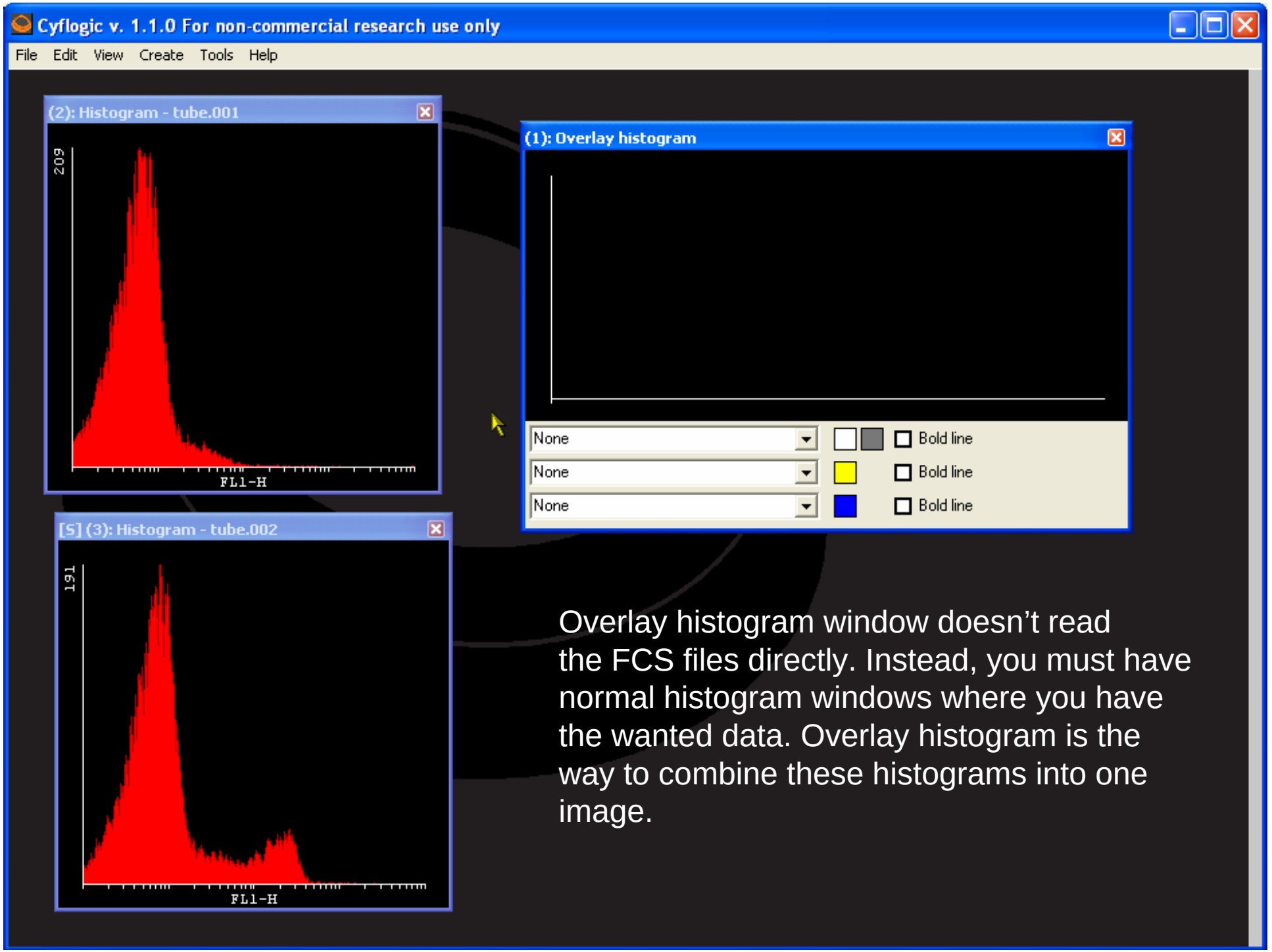


You can change the deviation of the curve from left and right blue boxes.

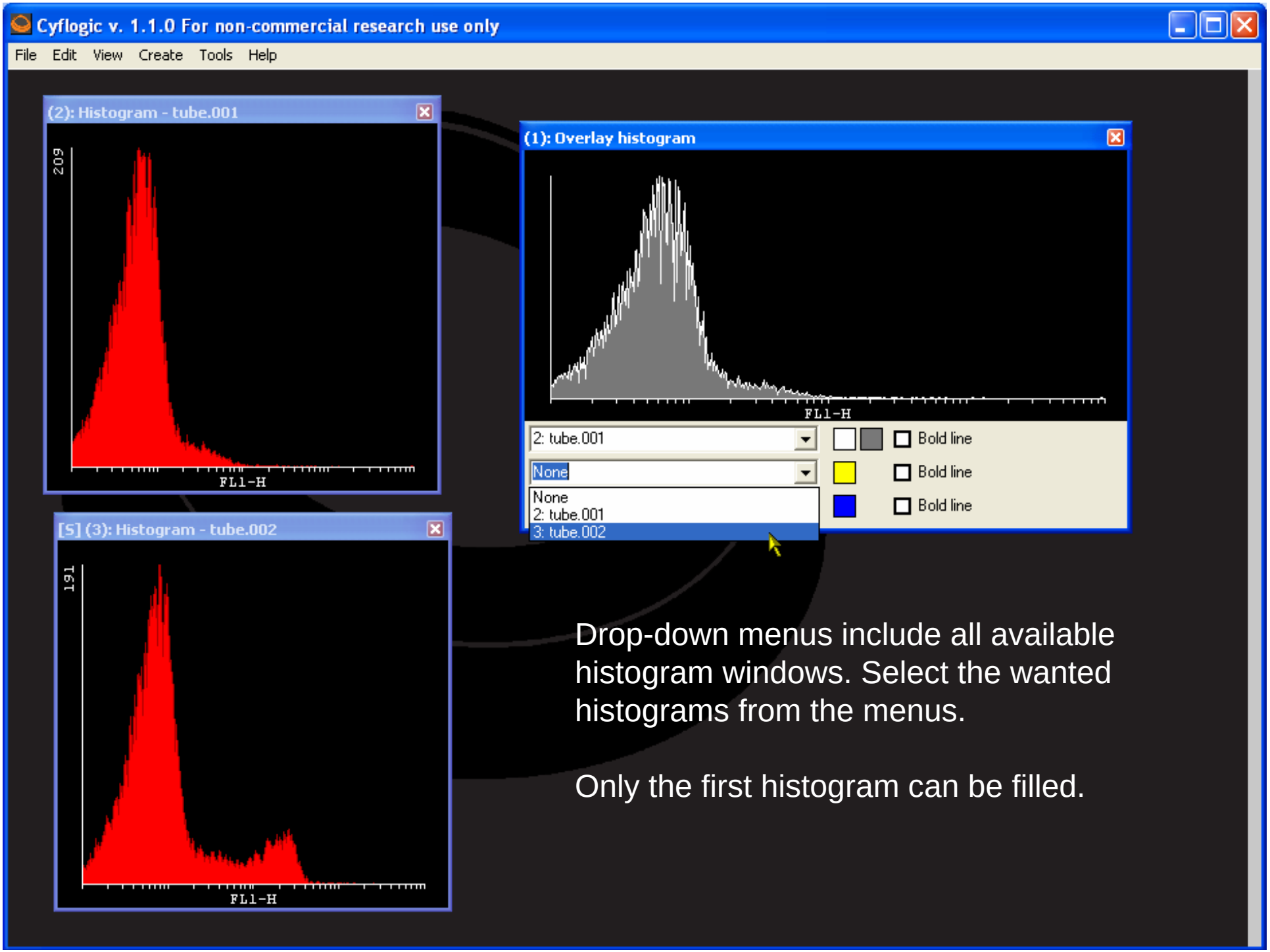


Features in the pop-up menu work the same way as in histograms.

Overlay histogram features

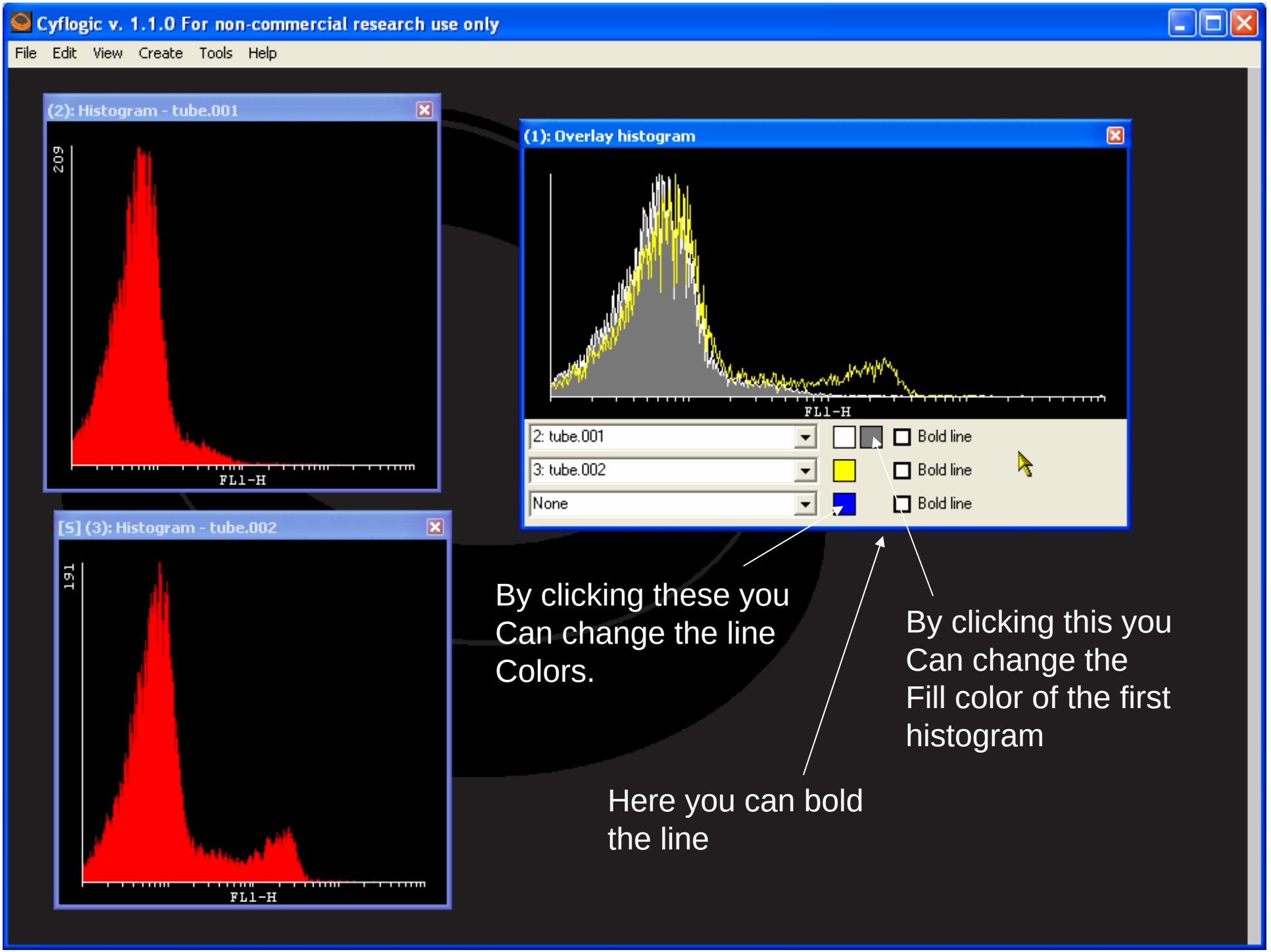


Overlay histogram window doesn't read the FCS files directly. Instead, you must have normal histogram windows where you have the wanted data. Overlay histogram is the way to combine these histograms into one image.



Drop-down menus include all available histogram windows. Select the wanted histograms from the menus.

Only the first histogram can be filled.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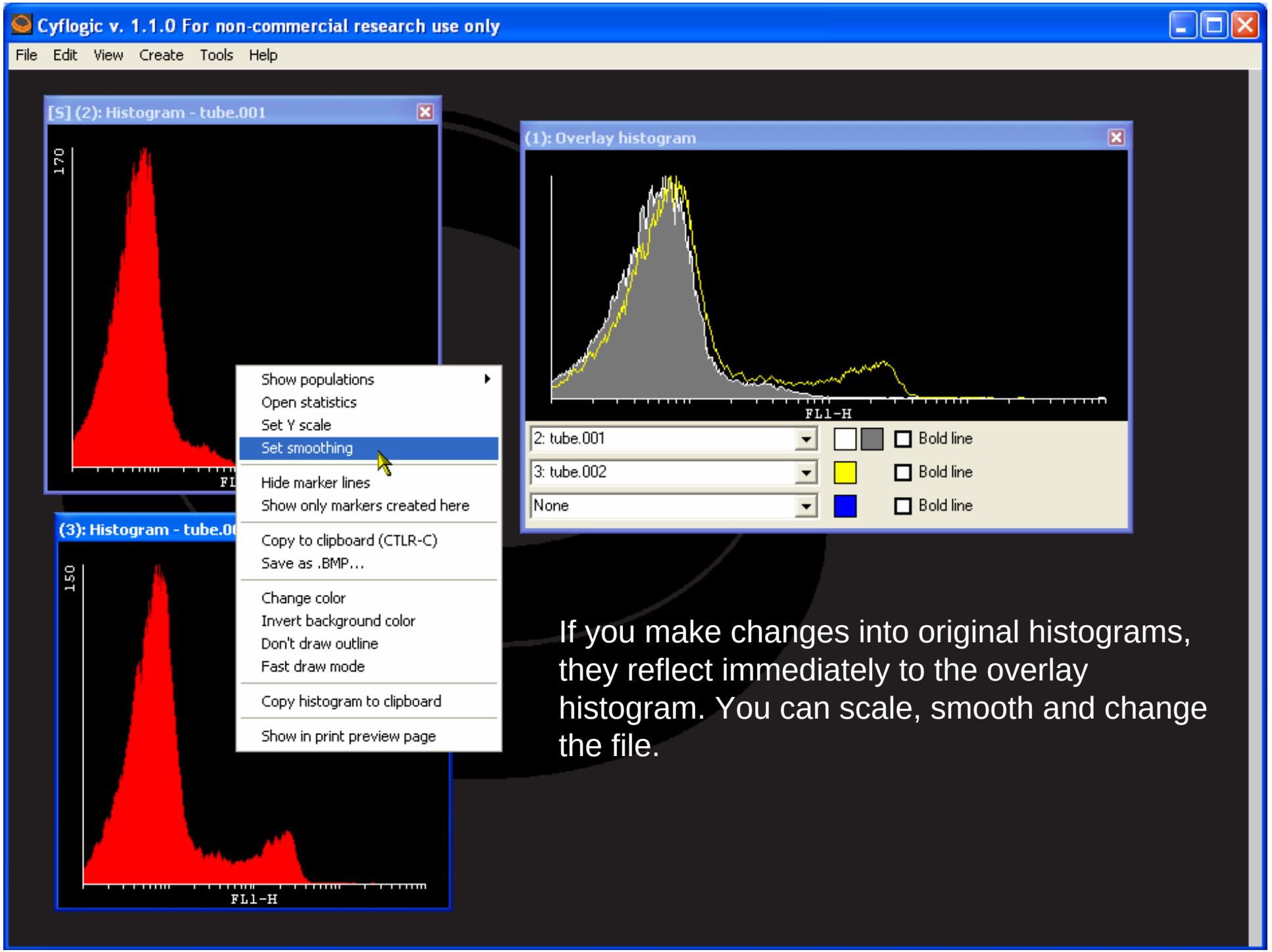
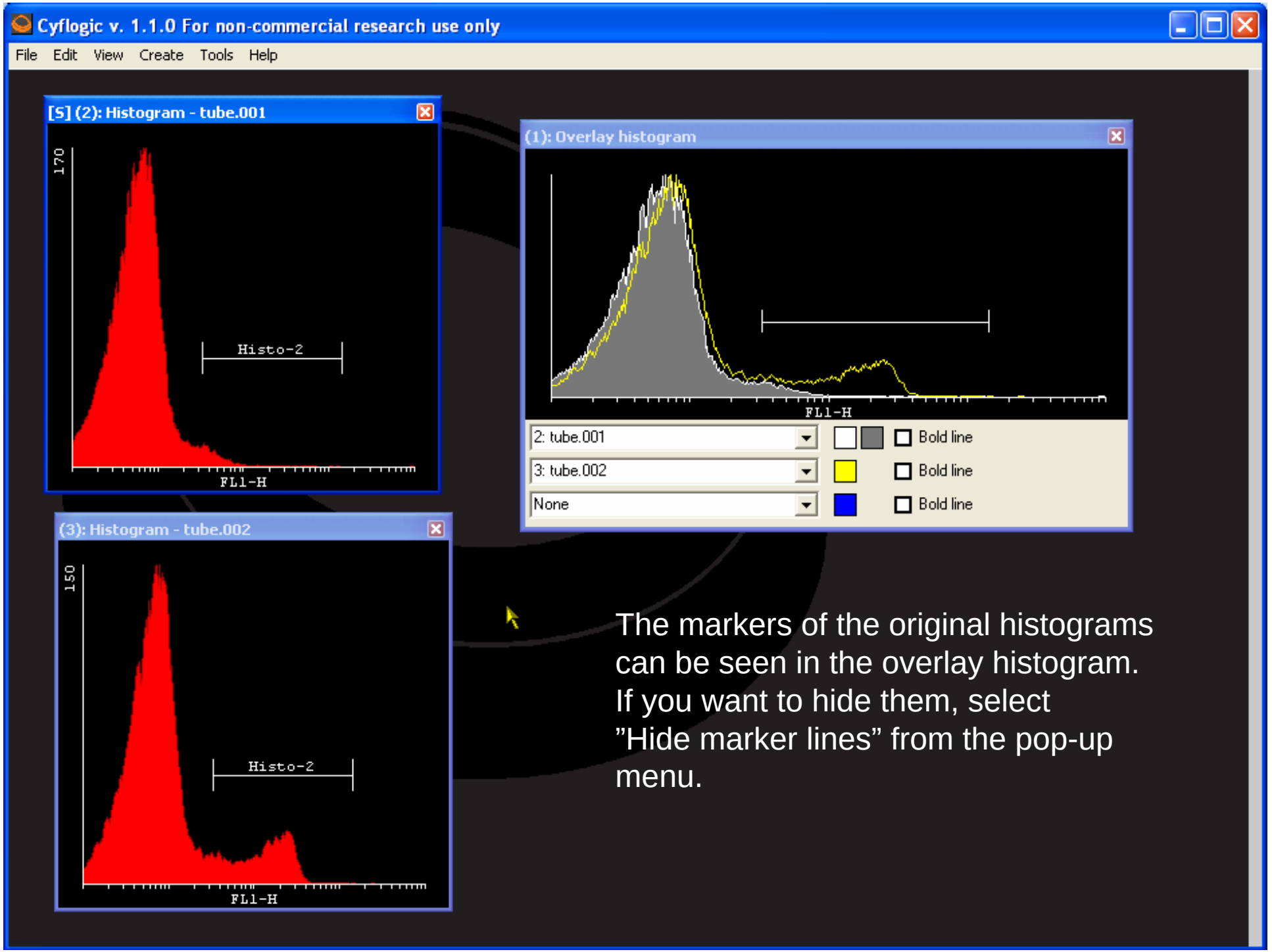
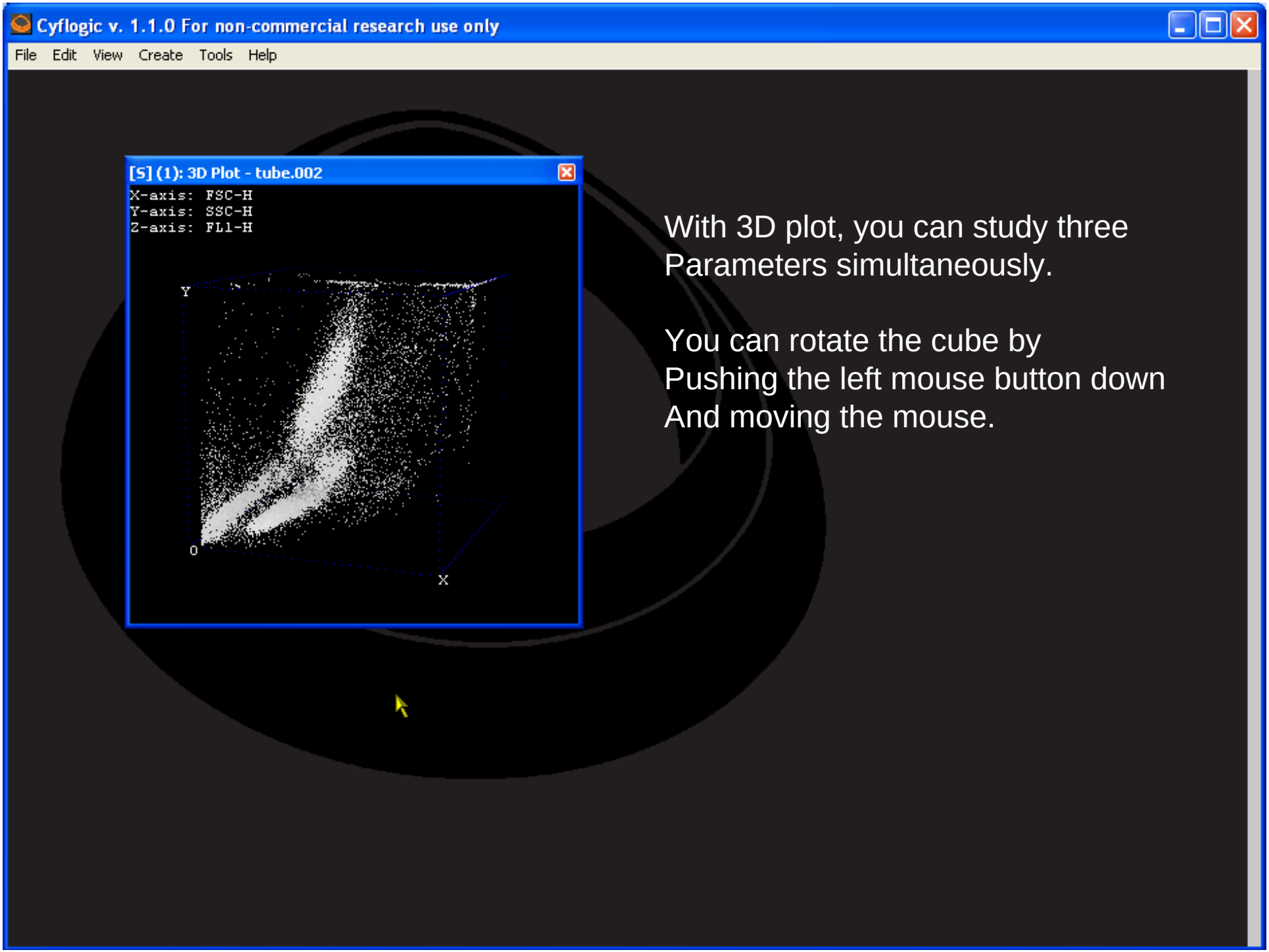
File Edit View Create Tools Help
(2): Histogram - tube.001
209
FL1-H
(1): Overlay histogram
FL1-H
2: tube.001
3: tube.002
None
Bold line
Bold line
Bold line
[5] (3): Histogram - tube.002
191
FL1-H
By clicking these you Can change the line Colors.
By clicking this you Can change the Fill color of the first histogram
Here you can bold the line

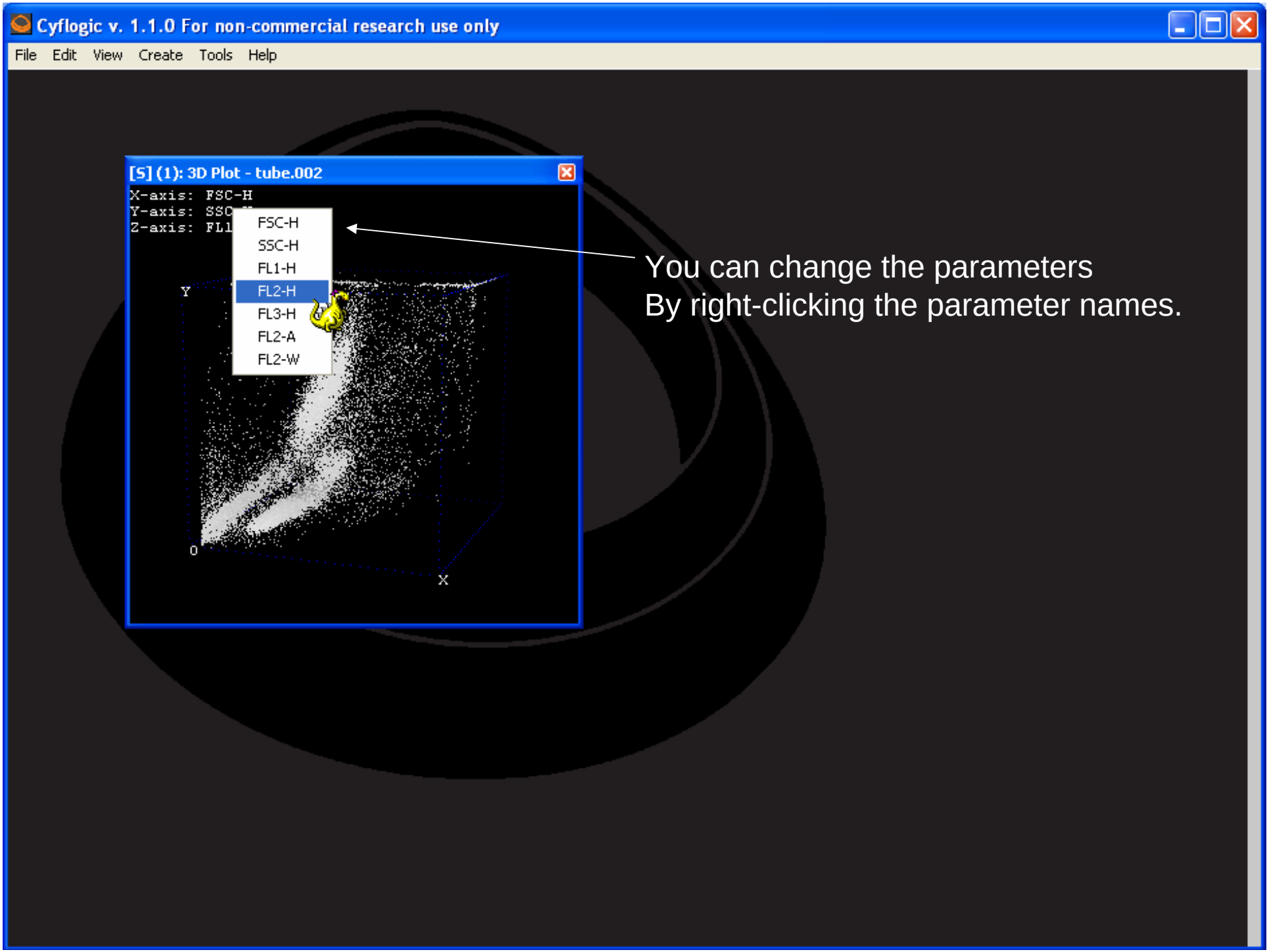

Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (2): Histogram - tube.001
170
Show populations
Open statistics
Set Y scale
Set smoothing
Hide marker lines
Show only markers created here
Copy to clipboard (CTLR-C)
Save as .BMP...
Change color
Invert background color
Don't draw outline
Fast draw mode
Copy histogram to clipboard
Show in print preview page
(3): Histogram - tube.00
150
FL1-H
(1): Overlay histogram
FL1-H
2: tube.001
Bold line
3: tube.002
Bold line
None
Bold line
If you make changes into original histograms, they reflect immediately to the overlay histogram. You can scale, smooth and change the file.

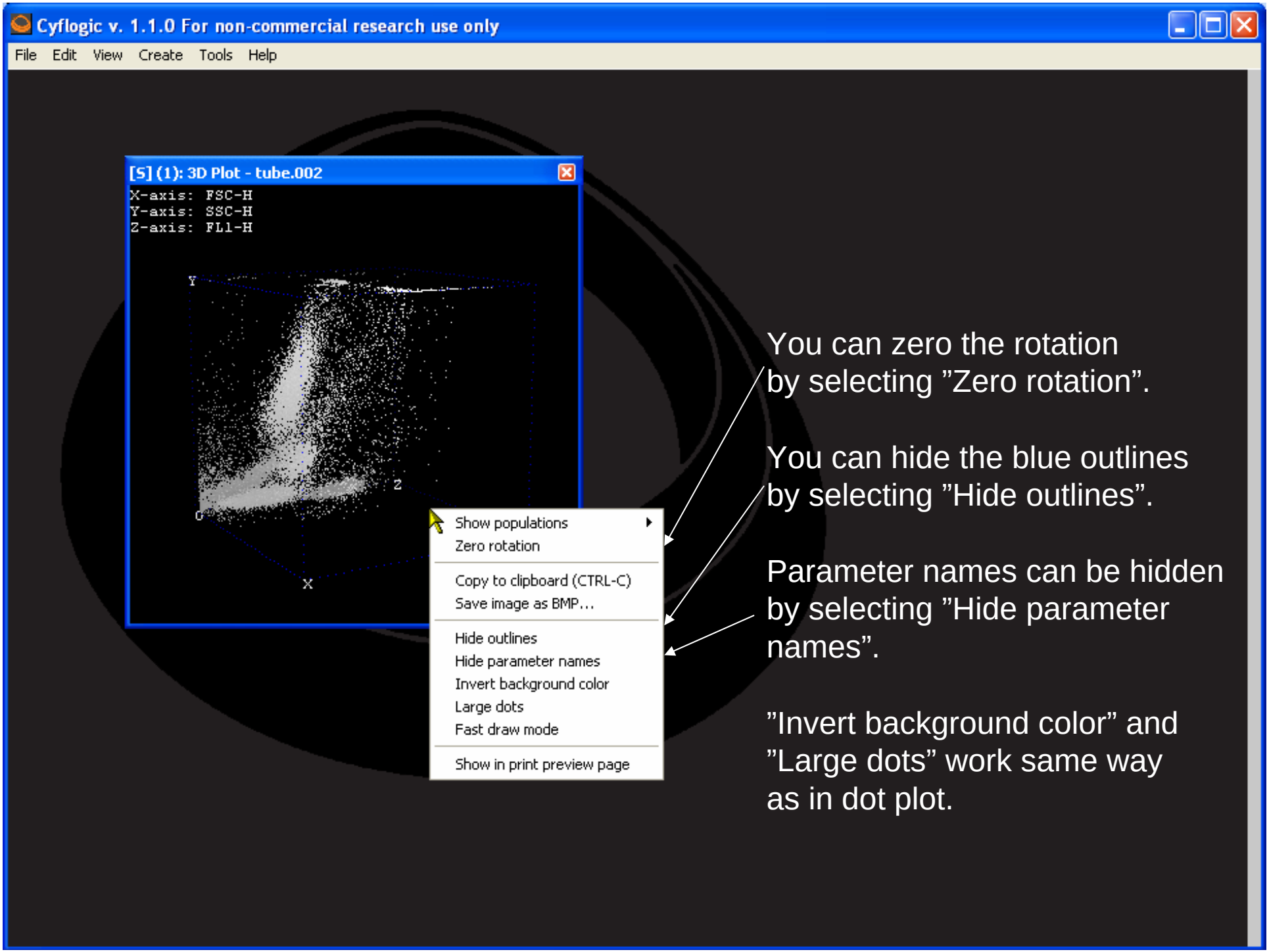


The markers of the original histograms can be seen in the overlay histogram. If you want to hide them, select ”Hide marker lines” from the pop-up menu.

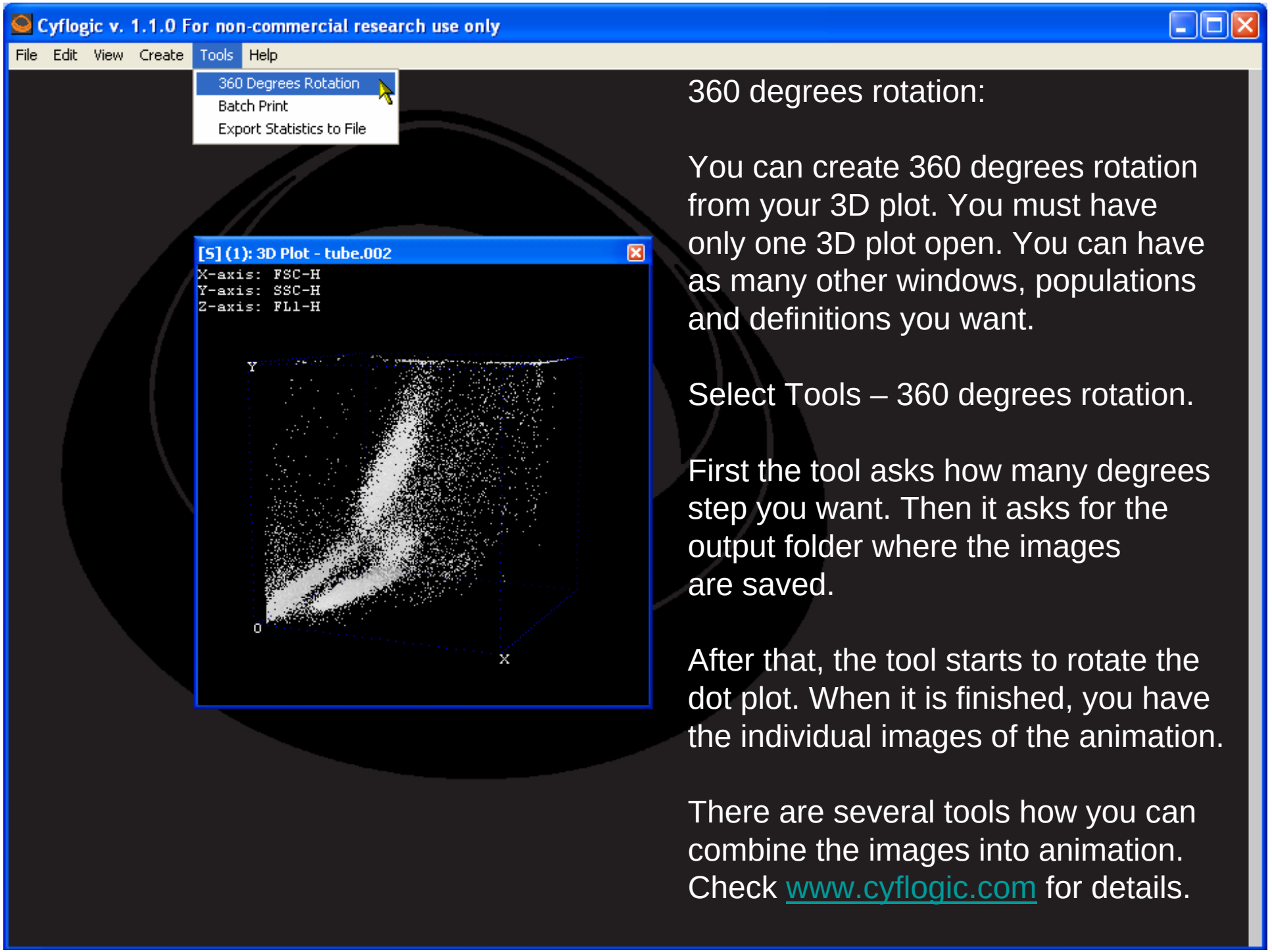
3D plot features


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): 3D Plot - tube.002
X-axis: FSC-H
Y-axis: SSC-H
Z-axis: FL1-H
Y
0
X
With 3D plot, you can study three
Parameters simultaneously.
You can rotate the cube by
Pushing the left mouse button down
And moving the mouse.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): 3D Plot - tube.002
X-axis: FSC-H
Y-axis: SSC
Z-axis: FL1
FSC-H
SSC-H
FL1-H
FL2-H
FL3-H
FL2-A
FL2-W
Y
0
X
You can change the parameters
By right-clicking the parameter names.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
[5] (1): 3D Plot - tube.002
X-axis: FSC-H
Y-axis: SSC-H
Z-axis: FL1-H
Y
Z
0
X
Show populations
Zero rotation
Copy to clipboard (CTRL-C)
Save image as BMP...
Hide outlines
Hide parameter names
Invert background color
Large dots
Fast draw mode
Show in print preview page
You can zero the rotation by selecting ”Zero rotation”.
You can hide the blue outlines by selecting ”Hide outlines”.
Parameter names can be hidden by selecting ”Hide parameter names”.
”Invert background color” and ”Large dots” work same way as in dot plot.

Tools-menu



360 degrees rotation:

You can create 360 degrees rotation from your 3D plot. You must have only one 3D plot open. You can have as many other windows, populations and definitions you want.

Select Tools – 360 degrees rotation.

First the tool asks how many degrees step you want. Then it asks for the output folder where the images are saved.

After that, the tool starts to rotate the dot plot. When it is finished, you have the individual images of the animation.

There are several tools how you can combine the images into animation. Check www.cyflogic.com for details.

Batch print:

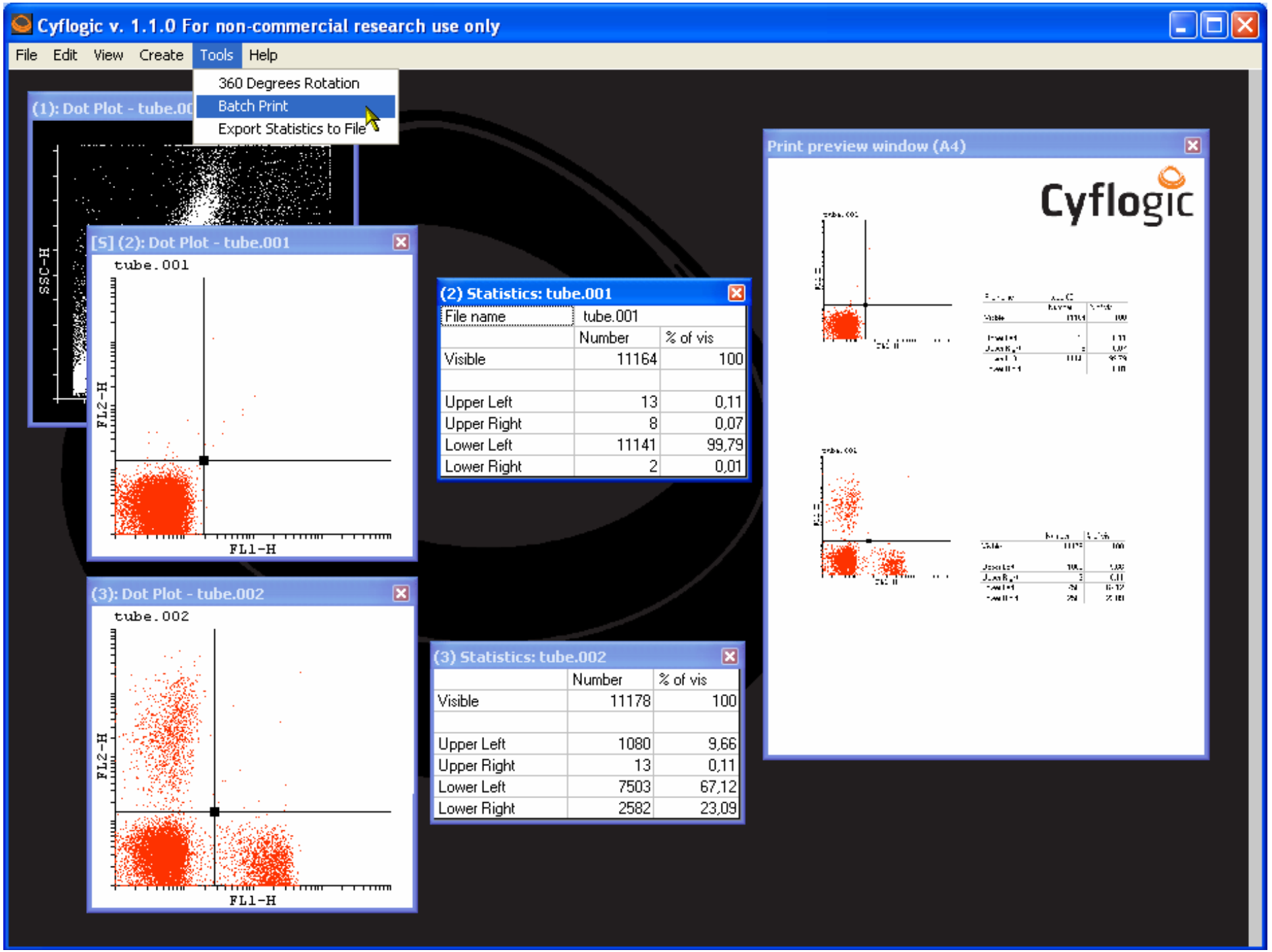
Batch printing enables you to print several prints with one command.

Let’s assume that you have 10 files in the folder, and you want that one paper has data of two files (files 1 and 2 in first paper, 3 and 4 in second paper etc).

First create the preview paper with the wanted view (e.g. with two dot plots having files 1 and 2). Then choose Tools – Batch Print.

The tool asks for file increment. That number is the number how many files the windows jumps forward before next printing. Next it asks for the printer. Select the printer.

Next page shows the typical analysis layout.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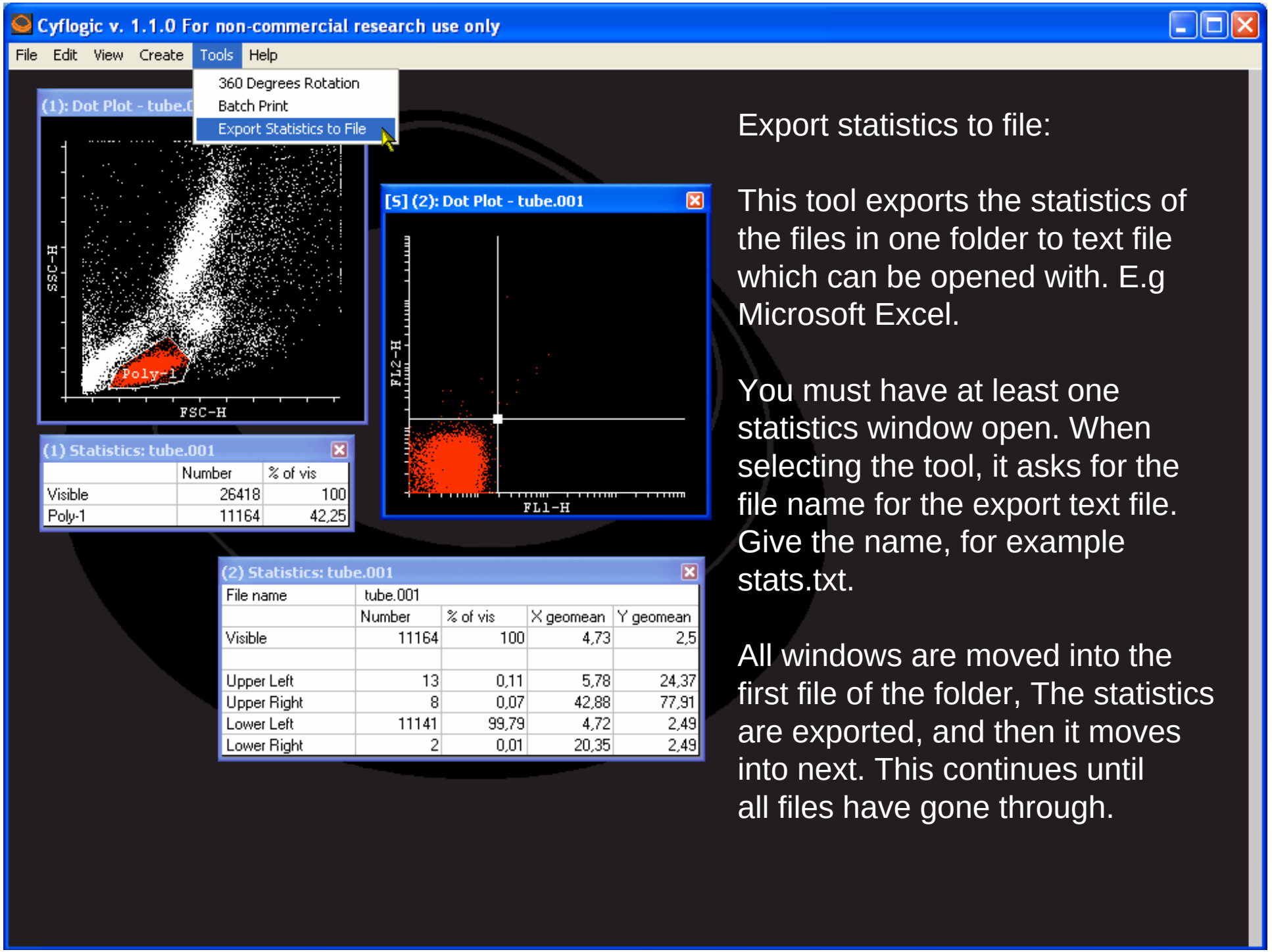
File
Edit
View
Create
Tools
Help
360 Degrees Rotation
Batch Print
Export Statistics to File
(1): Dot Plot - tube.00
SSC-H
[5] (2): Dot Plot - tube.001
tube.001
FL2-H
FL1-H
(2) Statistics: tube.001
File name
tube.001
Number
% of vis
Visible
11164
100
Upper Left
13
0,11
Upper Right
8
0,07
Lower Left
11141
99,79
Lower Right
2
0,01
(3): Dot Plot - tube.002
tube.002
FL2-H
FL1-H
(3) Statistics: tube.002
Number
% of vis
Visible
11178
100
Upper Left
1080
9,66
Upper Right
13
0,11
Lower Left
7503
67,12
Lower Right
2582
23,09
Print preview window (A4)
Cyflogic



Export statistics to file:

This tool exports the statistics of the files in one folder to text file which can be opened with. E.g Microsoft Excel.

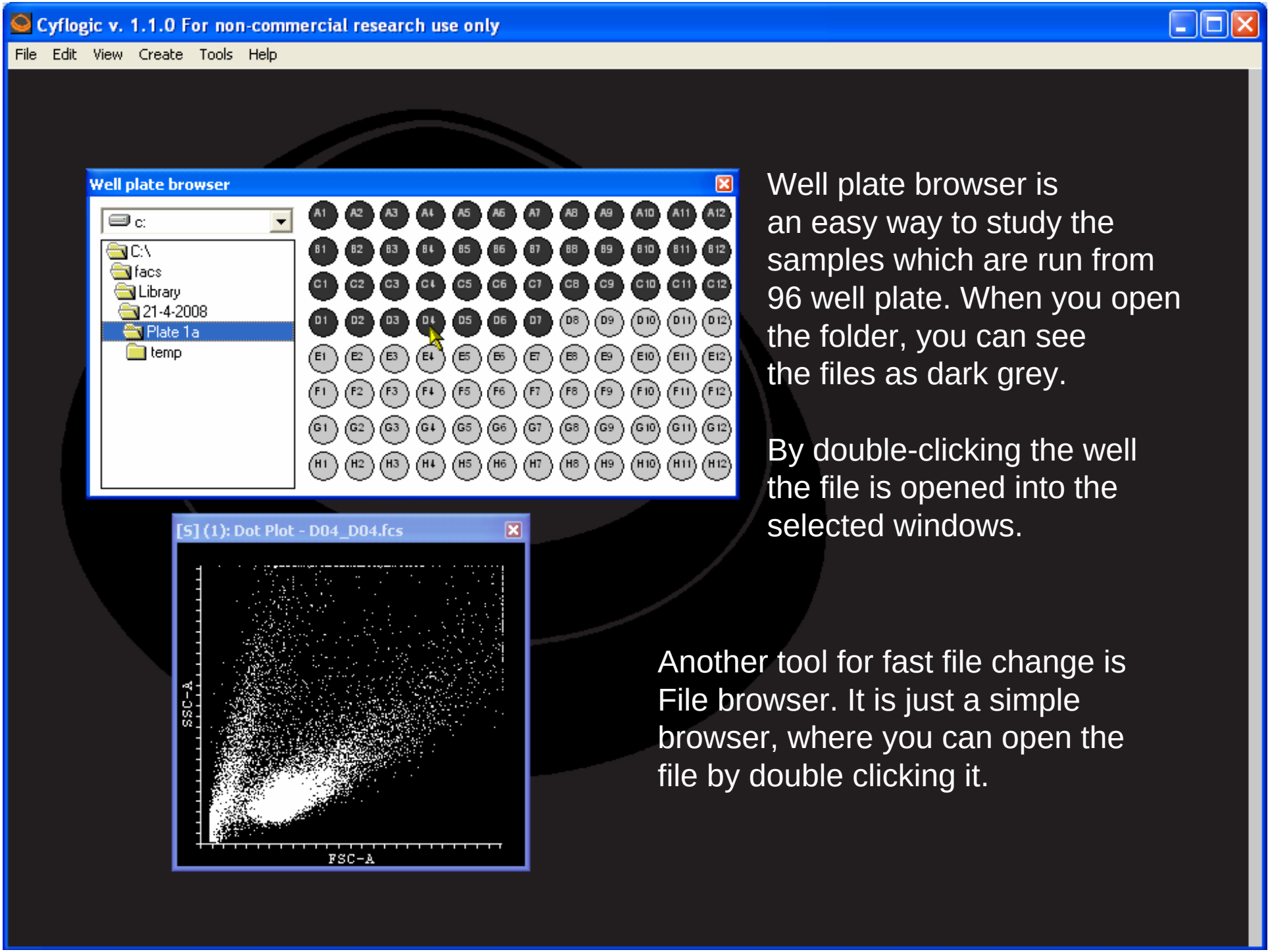
You must have at least one statistics window open. When selecting the tool, it asks for the file name for the export text file. Give the name, for example stats.txt.

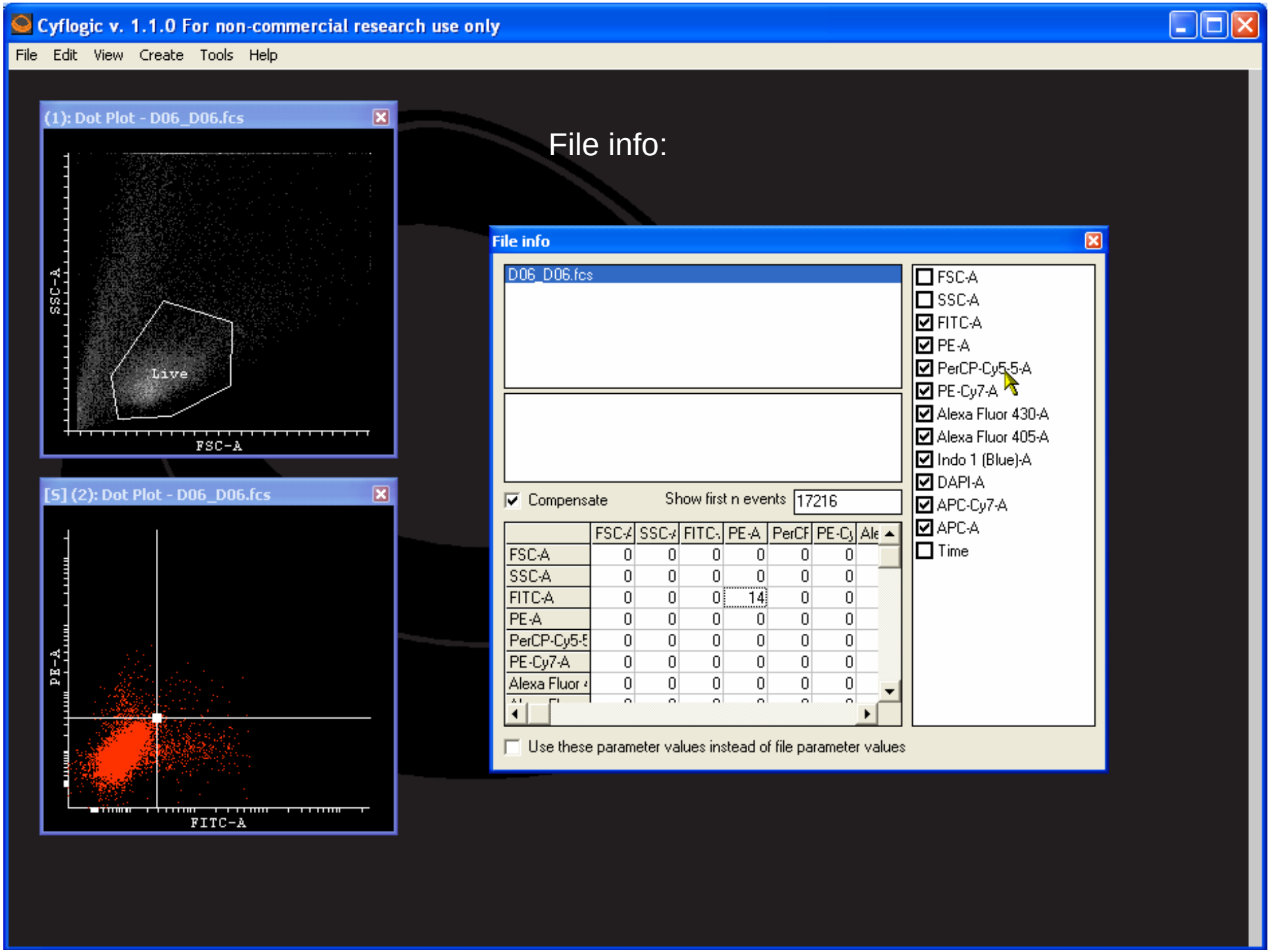
All windows are moved into the first file of the folder, The statistics are exported, and then it moves into next. This continues until all files have gone through.

Remarks about Tools:

There will be more tools available in the address www.cyflogic.com. Check frequently the web page.

Miscellaneous tools


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
Well plate browser
c:
C:\
facs
Library
21-4-2008
Plate 1a
temp
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 E11 E12
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12
G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12
H1 H2 H3 H4 H5 H6 H7 H8 H9 H10 H11 H12
[S] (1): Dot Plot - D04_D04.fcs
SSC-A
FSC-A
Well plate browser is an easy way to study the samples which are run from 96 well plate. When you open the folder, you can see the files as dark grey.
By double-clicking the well the file is opened into the selected windows.
Another tool for fast file change is File browser. It is just a simple browser, where you can open the file by double clicking it.


Cyflogic v. 1.1.0 For non-commercial research use only
File Edit View Create Tools Help
(1): Dot Plot - D06_D06.fcs
SSC-A
Live
FSC-A
[S] (2): Dot Plot - D06_D06.fcs
PE-A
FITC-A
File info:
File info
D06_D06.fcs
FSC-A
SSC-A
FITC-A
PE-A
PerCP-Cy5-5-A
PE-Cy7-A
Alexa Fluor 430-A
Alexa Fluor 405-A
Indo 1 (Blue)-A
DAPI-A
APC-Cy7-A
APC-A
Time
Compensate
Show first n events
17216
FSC-A
SSC-A
FITC-A
PE-A
PE-Cy7-A
Use these parameter values instead of file parameter values

File info:

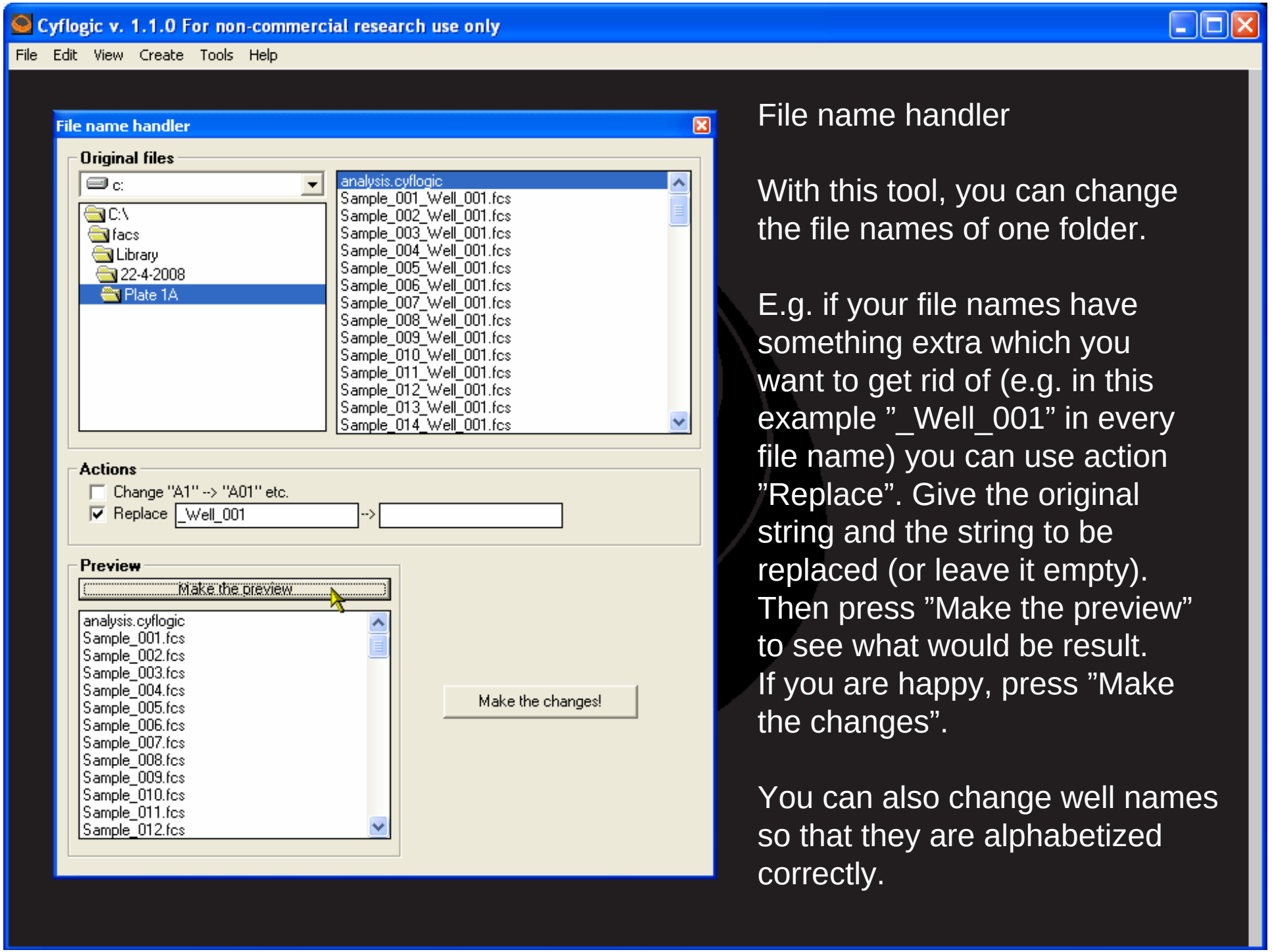
File info tool is a method for observing e.g. the compensation values of the file.

You can also change the values. On the left there is a list of files in memory. Click one. After this, you can change settings:
- By double-clicking the parameter name you can rename it
- By double-clicking the compensation value you can change it.

Attention! Only with FCS3.0 files the real off-line compensation is possible, with other files the results might be quite interesting.
- You can change linear parameter into log and vice versa. This works only with FCS3.0 files.
- You can select how many first events you want to see.

Attention! These changes are not permanent, if you close the file, the changes disappear.

By selecting ”Use these parameters instead of file parameters” the parameter names, lin/logs and compensations of all the files are overruled. If you load new files, these parameters overrule their parameters also. Again, these changes are not permanent.



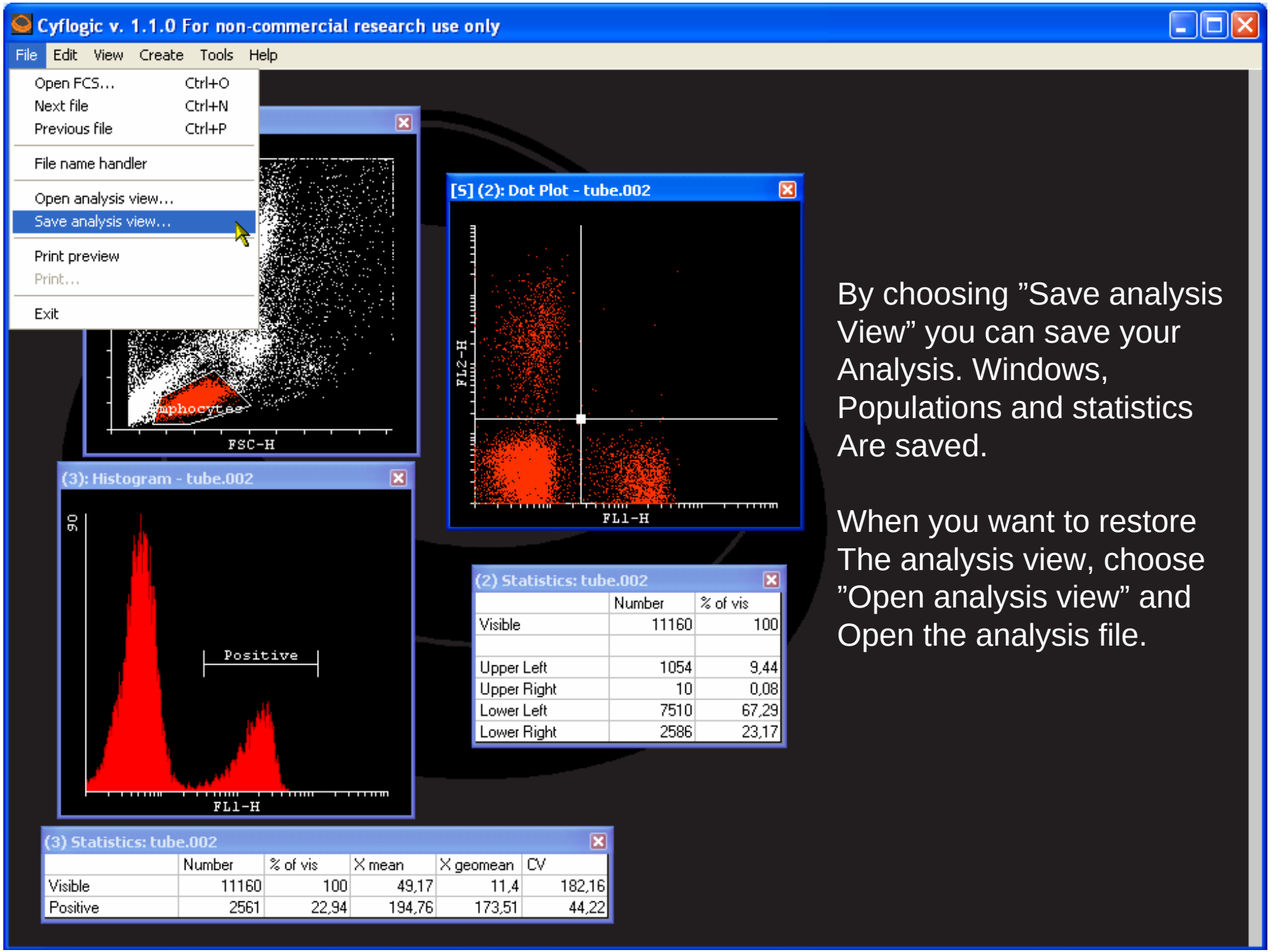
File name handler

With this tool, you can change the file names of one folder.

E.g. if your file names have something extra which you want to get rid of (e.g. in this example ”_Well_001” in every file name) you can use action ”Replace”. Give the original string and the string to be replaced (or leave it empty). Then press ”Make the preview” to see what would be result. If you are happy, press ”Make the changes”.

You can also change well names so that they are alphabetized correctly.

Save analysis view



By choosing ”Save analysis View” you can save your Analysis. Windows, Populations and statistics Are saved.

When you want to restore The analysis view, choose ”Open analysis view” and Open the analysis file.

Comments, ideas, bugs?

If you find a bug, get the idea or want to comment the features of Cyflogic, go to www.cyflogic.com – Discussion. There you can find the idea and bug discussion pages where you can tell your ideas!