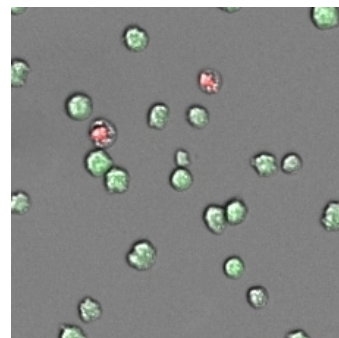


## Suspension Cell Count (2F)

### GENERAL PURPOSE

Suspension Cell Count (2F) is an application with one brightfield channel to identify all suspension cells and two fluorescence channels to distinguish between four different populations. These two functional fluorescence markers can be chosen according to your biological demands e.g. for live/dead or apoptosis tests.

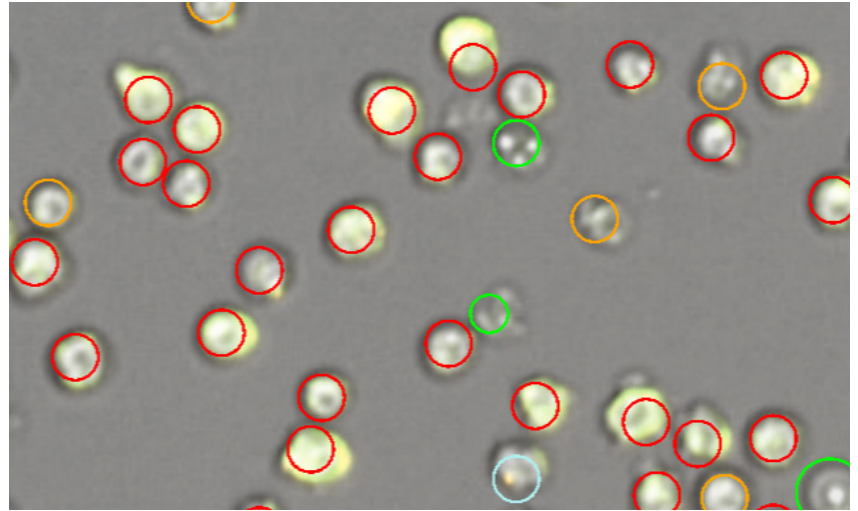


### RESULT TABLE

TC-BF [#]	Total number of cells detected in the brightfield channel
TC-1F [#]	Total number of cells detected in the 1st fluorescence channel
TC-2F [#]	Total number of cells detected in the 2nd fluorescence channel
TC-nn [#]	Total number of cells without fluorescence in both channels
TC-pn [#]	Total number of cells with fluorescence only in the 1st channel
TC-np [#]	Total number of cells with fluorescence only in the 2nd channel
TC-pp [#]	Total number of cells with fluorescence in both channels
TC-nn percent [%]	Percentage of cells without fluorescence in both channels
TC-pn percent [%]	Percentage of cells with fluorescence in only the 1st channel
TC-np percent [%]	Percentage of cells with fluorescence in only the 2nd channel
TC-pp percent [%]	Percentage of cells with fluorescence in both channels
CD-1F [#/mL]	Number of cells labeled with Fluorescence 1 per mL
CD-2F [#/mL]	Number of cells labeled with Fluorescence 2 per mL
1F/BF [%]	Fluorescence ratio: $(TC-1F/TC-BF) * 100$
2F/BF [%]	Fluorescence ratio: $(TC-2F/TC-BF) * 100$
Avg Fluo CH1 Intensity BC	Average fluorescence intensity in channel 1 over background
Avg Fluo CH2 Intensity BC	Average fluorescence intensity in channel 2 over background
Sample Volume [ $\mu$ L]	'Undiluted' volume of your sample
CD [#/mL]	Cell density = Total number of cells per mL

## EXAMPLE

This example shows a B-lymphocyte cell line. To check the apoptotic rate they were stained with JC-1. This dye is a mitochondrial membrane potential marker. JC-1 green marks dead cells and red J-aggregates were build in viable cells.



<b>Marked green:</b>	TC-nn → detected in brightfield only
<b>Marked orange:</b>	TC-pn → detected in brightfield AND in fluorescence 1
<b>Marked light blue:</b>	TC-np → detected in brightfield AND in fluorescence 2
<b>Marked red:</b>	TC-pp → detected in brightfield AND in fluorescence 1 AND in fluorescence 2