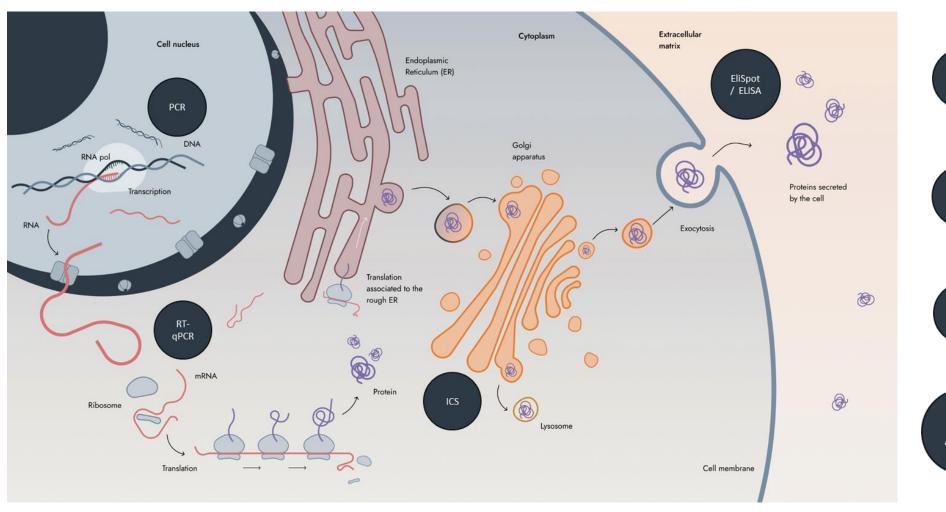
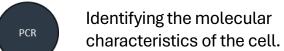


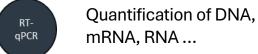
# Insight EliSpot

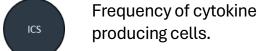
AID - EliSpot, FluoroSpot and Reader Systems at a glance

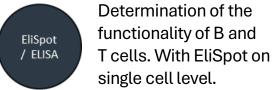






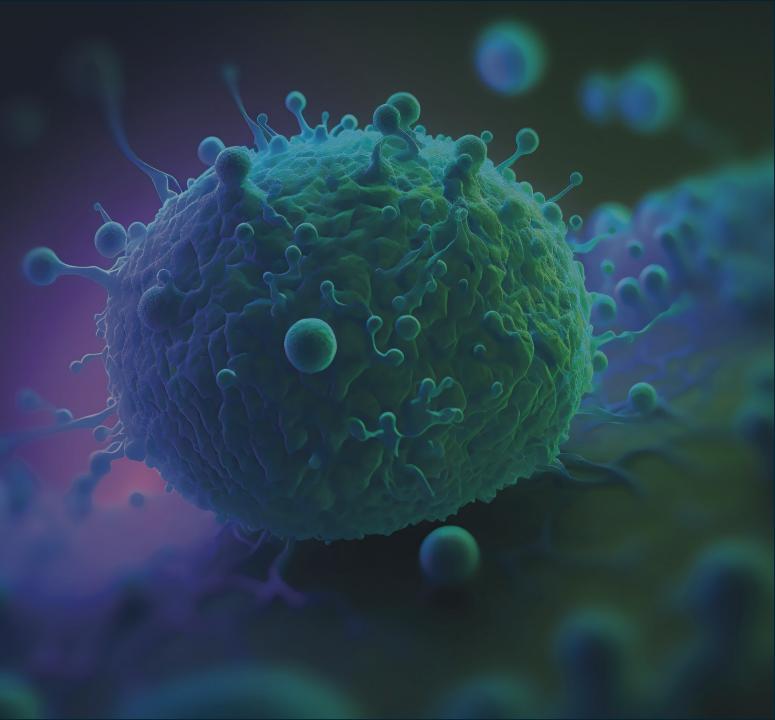




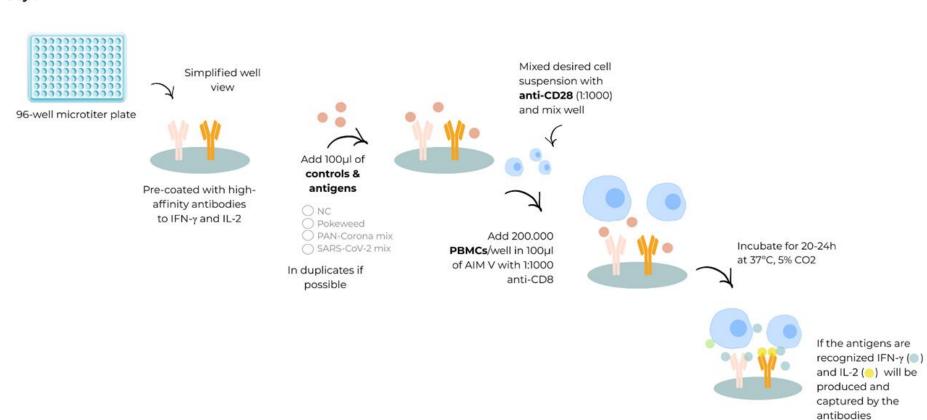




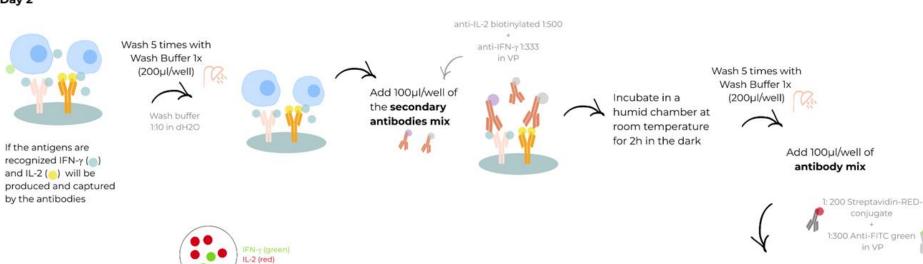
Brief overview of the procedure



#### Day 1



Day 2



Allow the plate to **dry** thoroughly (preferably overnight)

Using the AID iSpot Reader System

> Stop reaction by removing the enhancer solution and blotting the plate on a stack of paper towels to remove excess liquid

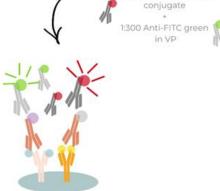
**Count spots** 

Add 100ul/well of **enhancer** and incubate for 15min at room temperature in the dark



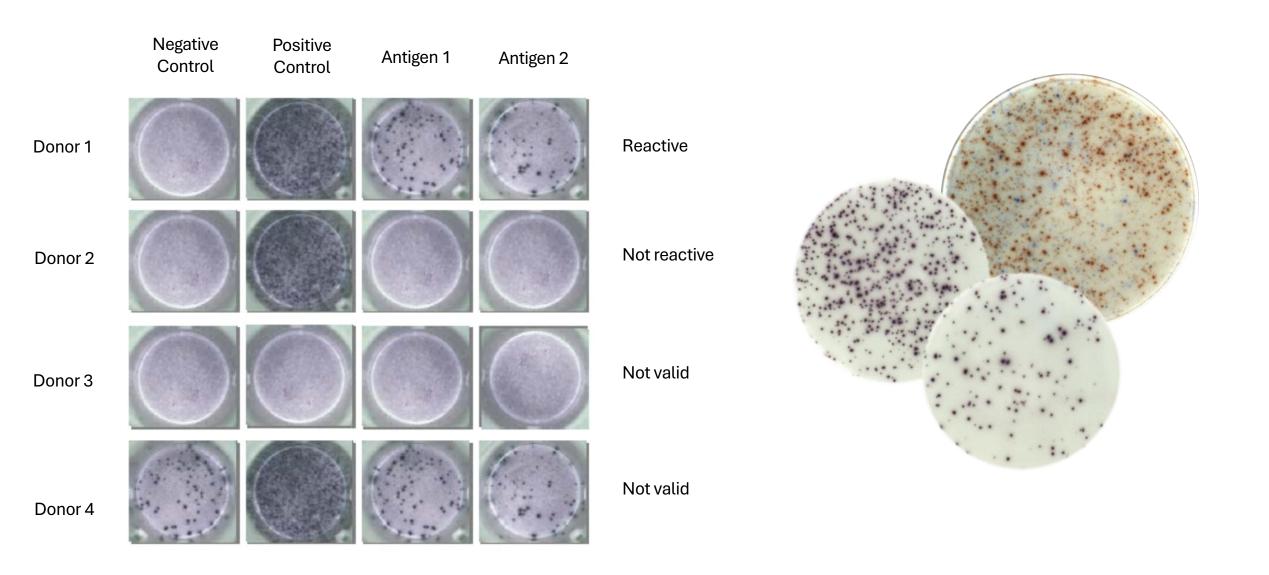
Wash 5 times with Wash Buffer 1x

(200µI/well)

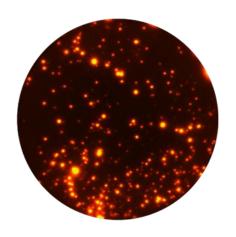


Incubate in a humid chamber at room temperature for 1h in the dark

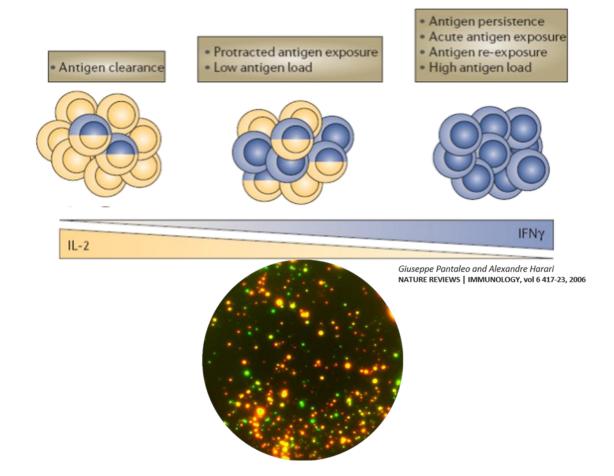








Memory T cells
Interleukin-2 EliSpot
Red fluorescence

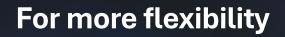


Activated T cells
Interferon-γ EliSpot
Green fluoresence

Double-stained multifunctional T cells

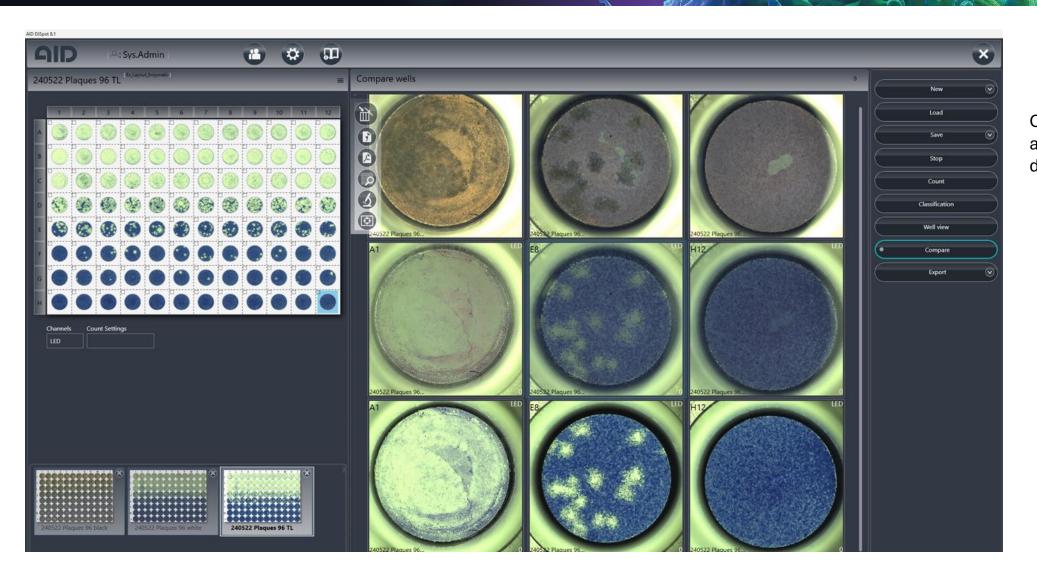
Yellow





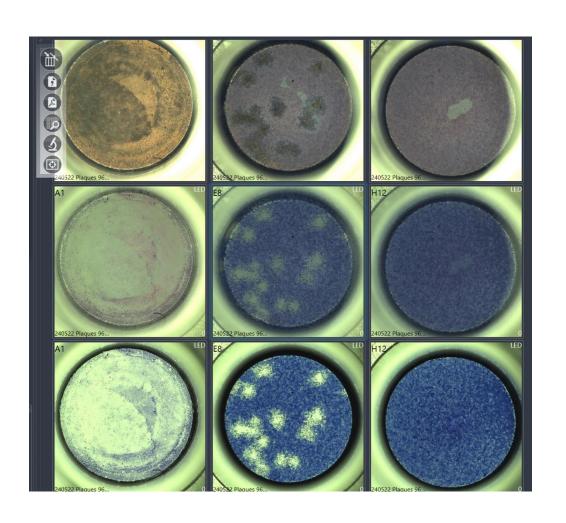
New generation Hardware improvements





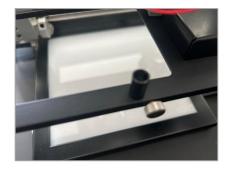
Compare different plates and read outs to show the difference













Light from above



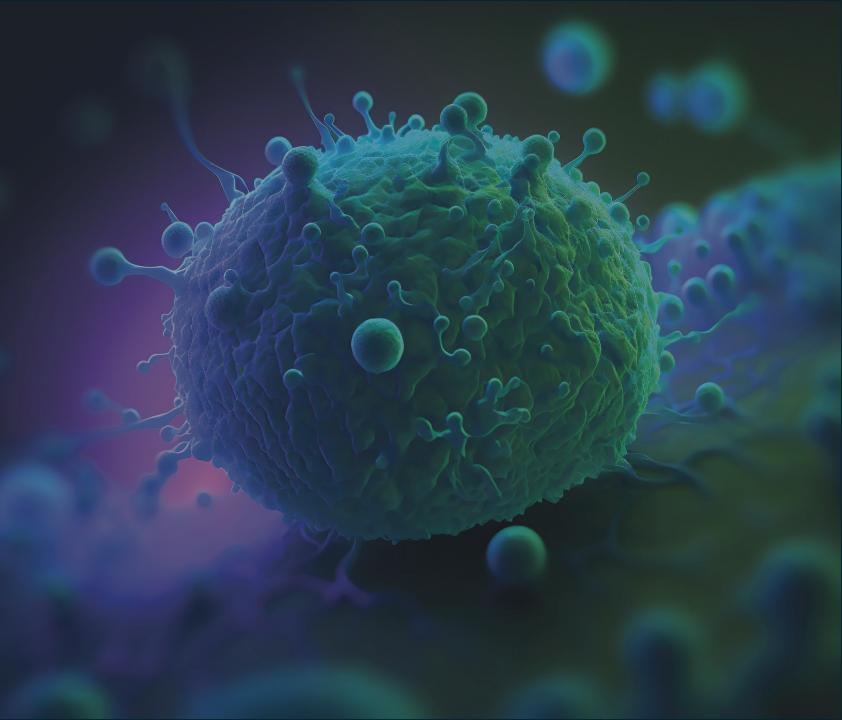


Light from below



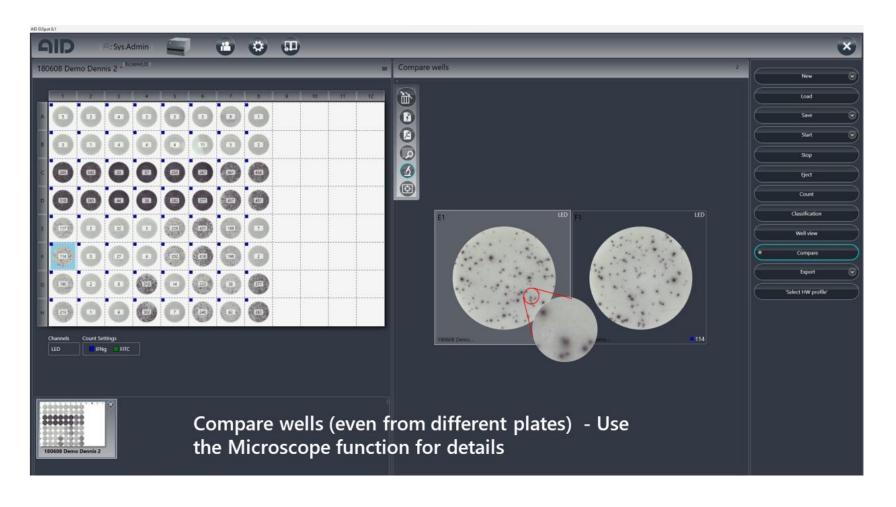


New software features

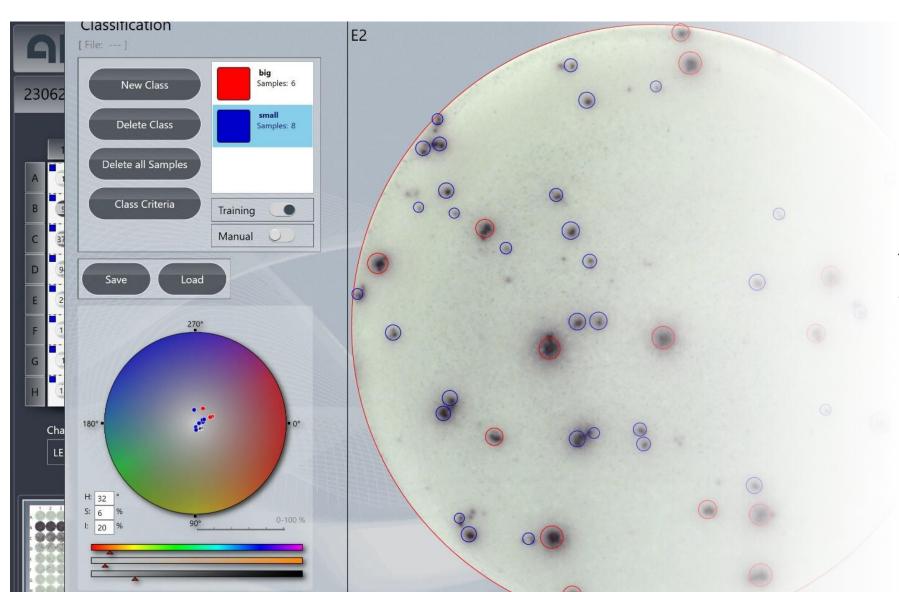




## Improved analysis of your enzymatic EliSpot







## **Classify spots according to their:**

Size Saturation

Hue Intensity

The emphasis of each parameter can be selected in a range of 0-100%.

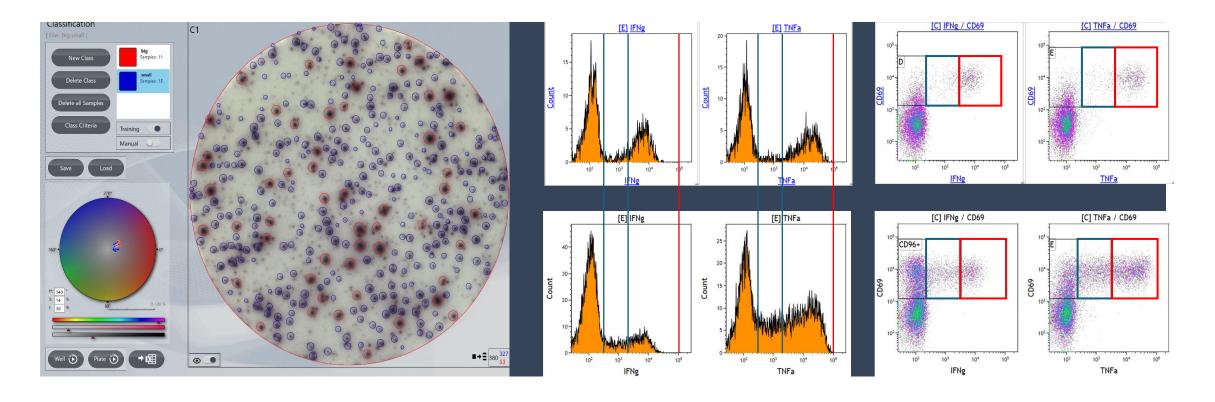
The Software can be trained to find your spots of interest.

Just set up a new group and teach the software which spots should be included.



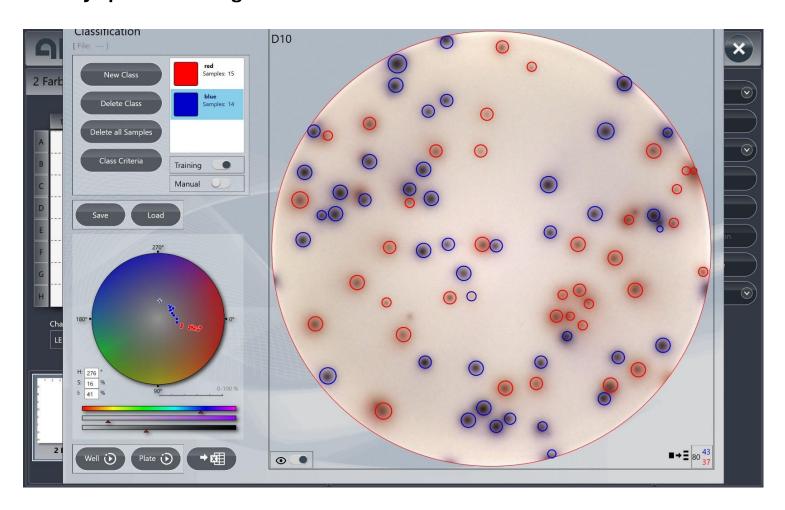
## **Catching up with flow cytometry**

For all our customers who are used to ICS, the new Classification tool additionally allows to distinguish between big and small spots in the style of highs and dims.





## Classify spots according to their colour

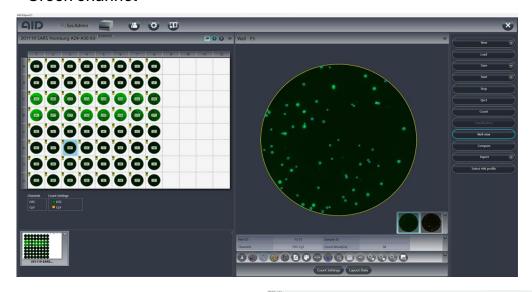


For multi cytokine analysis we generally recommend the use of fluorescent labels.

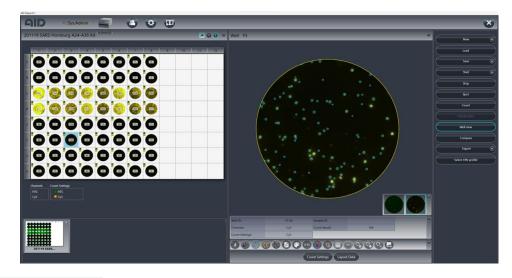
However, despite the inherent drawbacks of enzymatic two colour EliSpot Assays the AID EliSpot Reader Software v8.1 is capable of distinguishing between spots of different colours.

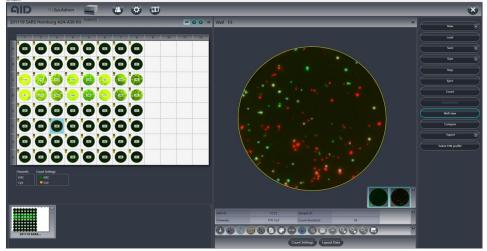


#### Green channel



#### Red channel

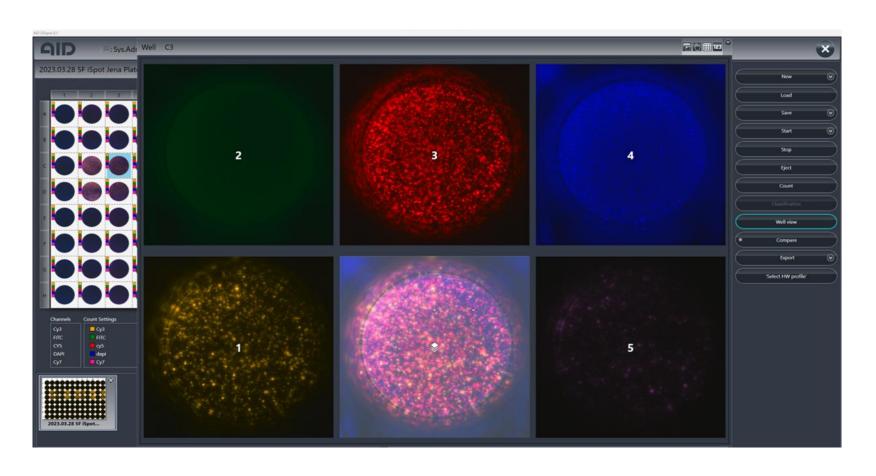




Overlay of green and red channel



# View and compare different channels at once

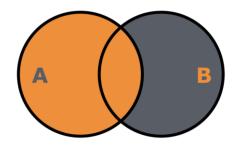


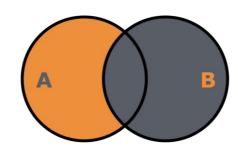


# **Combine different channels and count your spots**

INCLUSIVE

**Double stained spots** 





**EXCLUSIVE** 

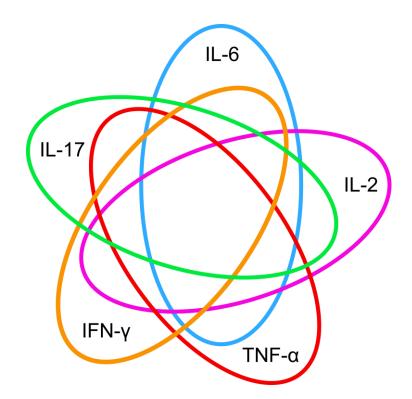
Single cytokine

# Number of possible combinations

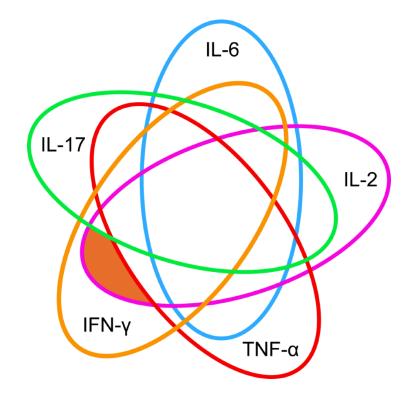
| Combination | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
|-------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| DAPI        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| FITC        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cy3         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cy5         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Cy7         |   | · |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



Logical operators can be used to define your cell population of interest.

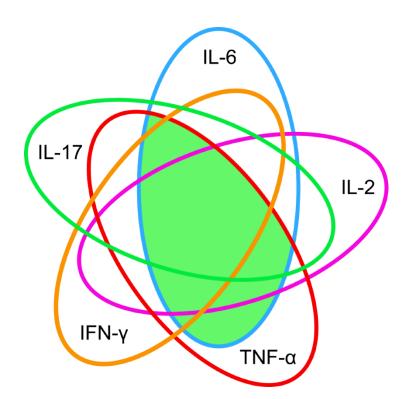


IFN- $\gamma$  + IL-2 positive cells only

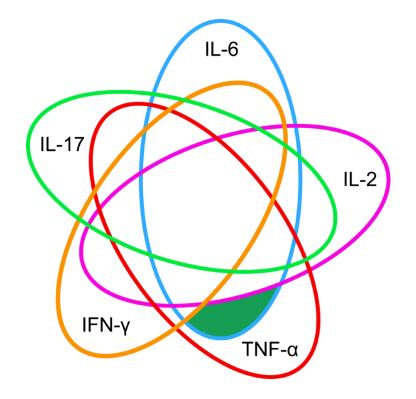




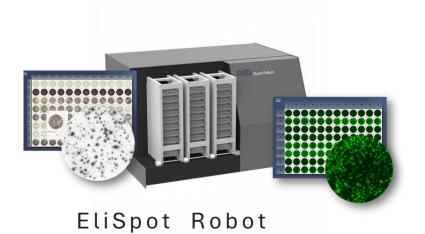
IL-6 + TNF- $\alpha$  positive cells including all spots with additional cytokines

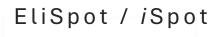


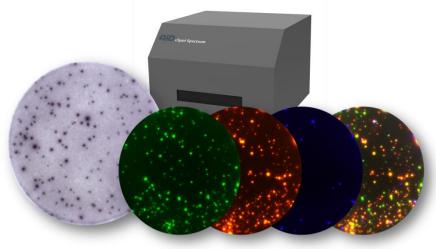
IL-6 + TNF-α positive cells excluding all additional cytokines

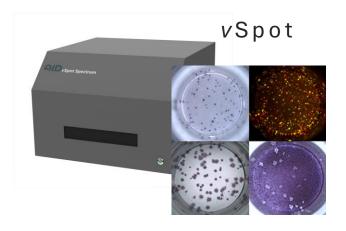
















Colony Counter



