INFINICYT™ 2.0

CYTOGNOS NEXT GENERATION FLOW SOLUTION



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WHERE DOES INFINICYT COME FROM?







Licensed and developed



Based on USAL patents

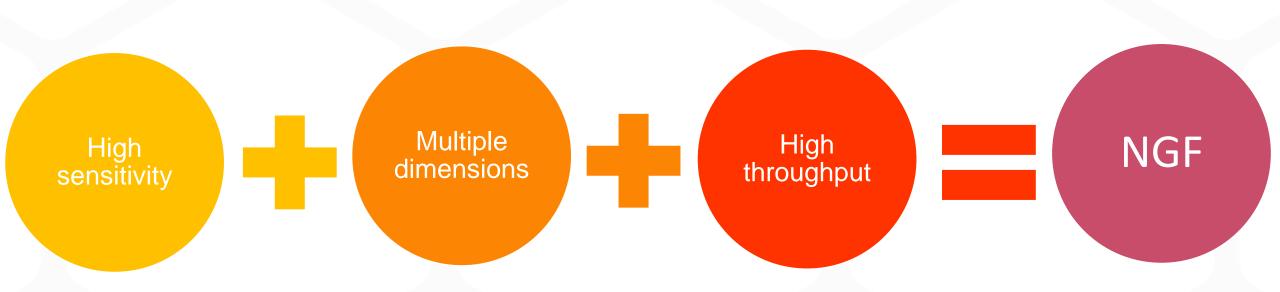


Contribution and validation





WHY IS INFINICYT NECESSARY?

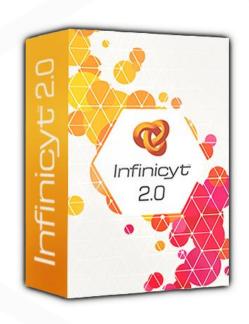


"HIGHLY SENSITIVE MULTIDIMENSIONAL FLOW CYTOMETRY"



WHAT IS INFINICYT?

Analysis software of multicolor flow cytometry data.



- ✓ Multivariate. Multiparametric diagrams and analysis tools.
- ✓ Standard. EuroFlow™ Reference Databases.
- ✓ Reproducible. Automated analysis tools.
- ✓ Efficient and sensitive. Optimal performance when processing large files is essential in MRD studies.
- √ Compatible with all types of cytometers and manufacturers.



AGENDA

✓ Review of Infinicyt tools

- ✓ Data Analysis
- ✓ Data Integration
- ✓ Data Interpretation
 - ➤ EuroFlow™ Databases for sample comparison



AGENDA

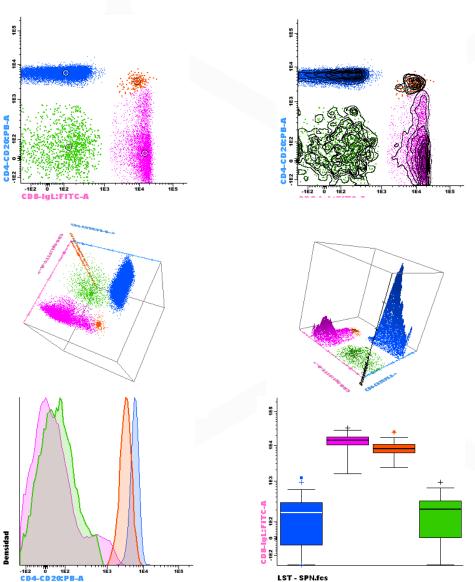


- ✓ Classic and Multiparametric Diagrams
- ✓ Automatic Population Separator (APS)
 Diagram
- **✓** Population Tree and statistics
- ✓ Analysis Strategy
- ✓ Report
- **✓** Profile

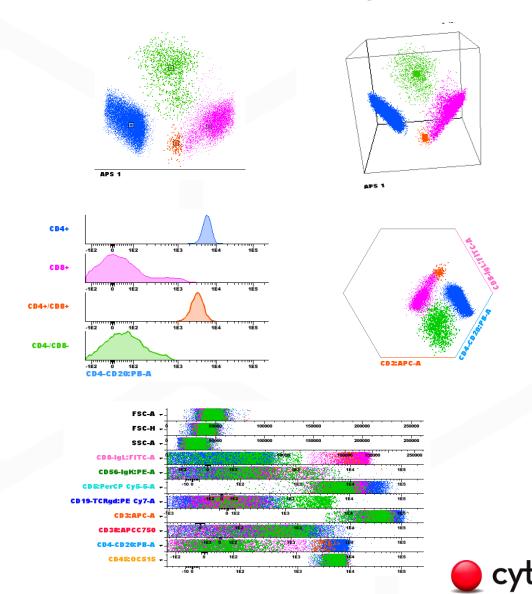


DIAGRAMS

Classic Diagrams



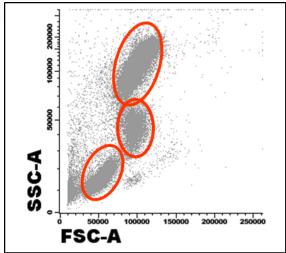
Multiparametric Diagrams

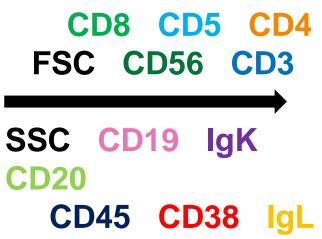


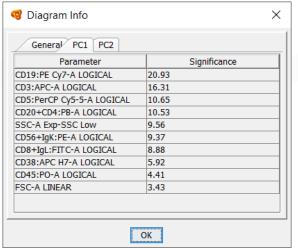
APS DIAGRAM

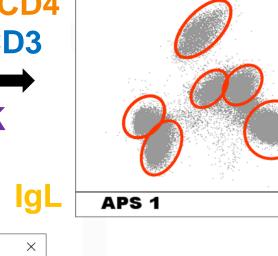
APS diagram takes into account all parameters to display the best separation of events in

clusters.









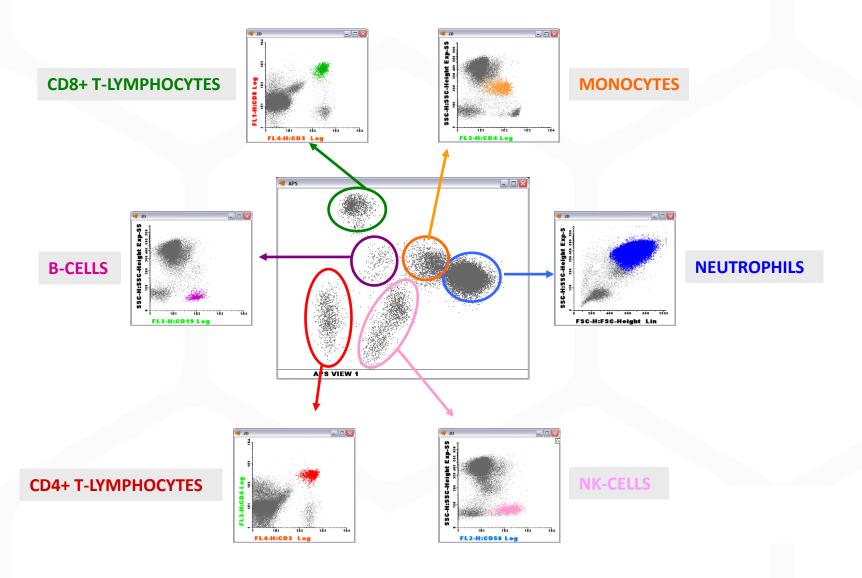
APS





 \times

APS DIAGRAM

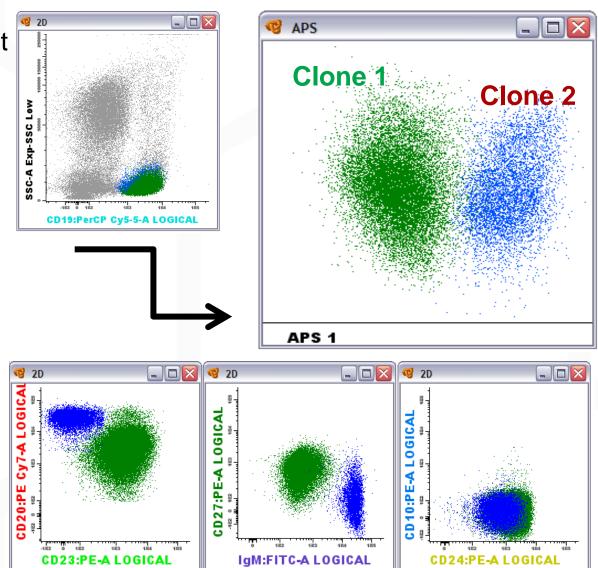


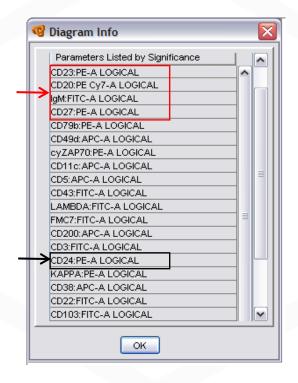




APS DIAGRAM

B-cell compartment









APPLICATIONS OF APS DIAGRAM

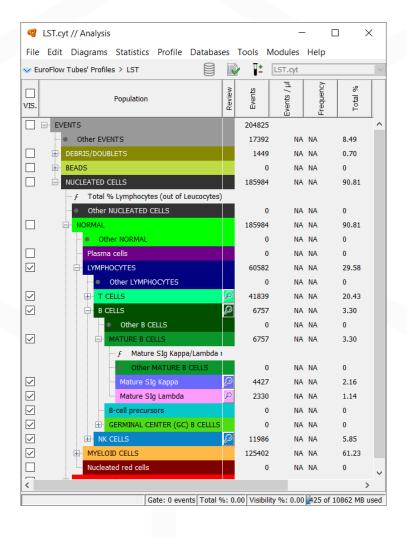
The APS diagram can be used for both clinical and research purposes.

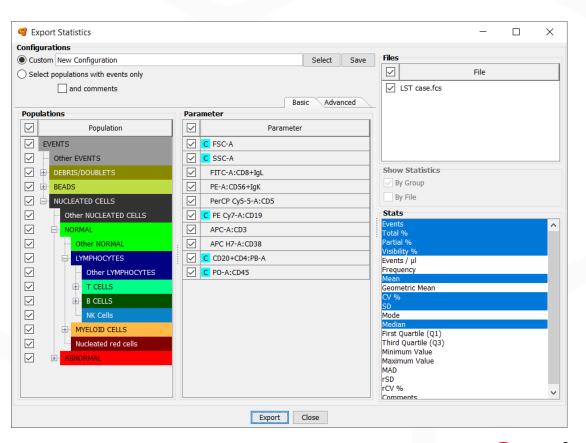
- ✓ Additional multiparametric diagram for data analysis.
- ✓ Displays the events with the best cluster separation in a single diagram.
- ✓ Helps to identify the pathological population versus the normal counterpart.
- ✓ Aids to design your own panels.



POPULATION TREE AND STATISTICS

Infinicyt includes robust statistics which are less influenced by outlying events. Export data to other programs to perform further statistical analysis.

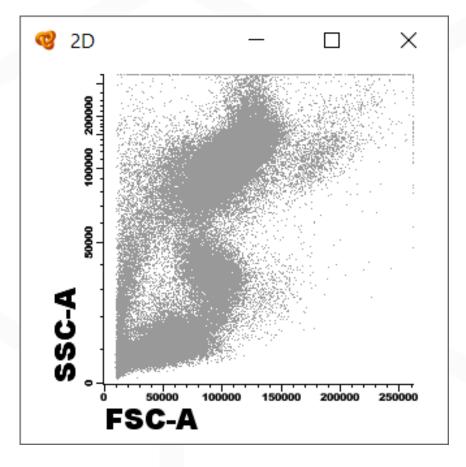




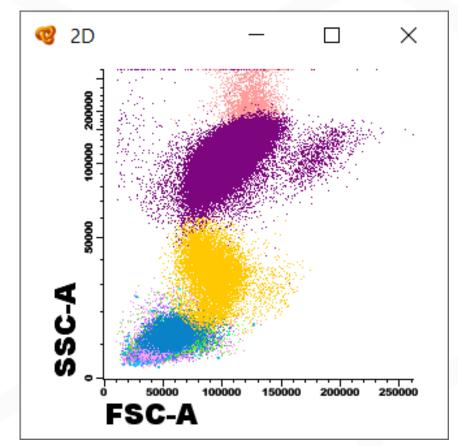


ANALYSIS STRATEGY

Raw file



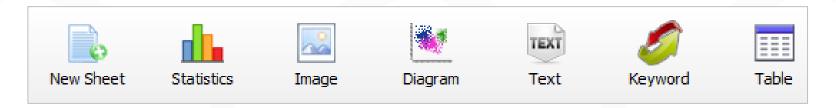
Analyzed file

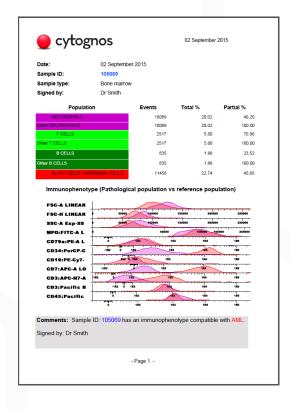




ANALYSIS & DATA INTERPRETATION - REPORT

Additional functionality is added in 2.0 version of Infinicyt.





- ✓ Interface improvement
- ✓ New toolbar
- √ Keywords

Date automatically updated

Manager of Infinicyt and User Comments

- ✓ Automated Report with Change Controls
- ✓ Header and Footer improvements
- ✓ Compatible with LIS systems



PROFILE

PROFILE

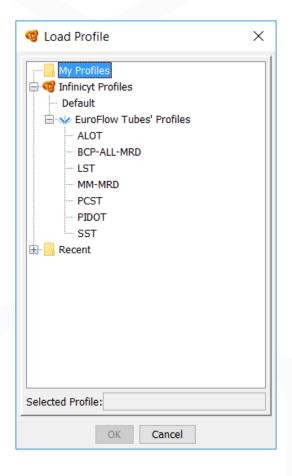
ANALYSIS TEMPLATE

CONFIGURATION OF WORKSPACE

- Diagrams and Statistics
- Population Tree
- Report

OTHER CONFIGURATIONS

- Compensation Matrix
- Analysis Strategy
- Reference Image
- Batch Analysis





AGENDA

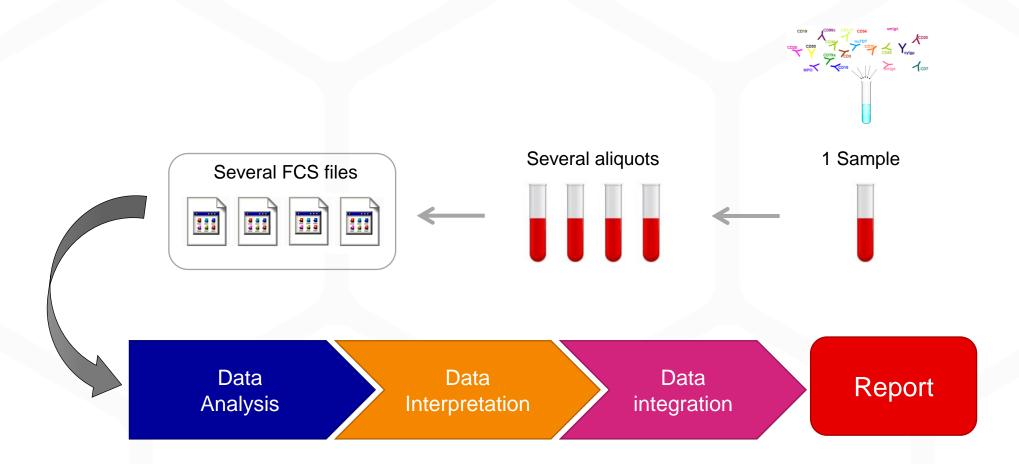


- ✓ File Merge tool
- ✓ Calculate Data



FILE MERGE TOOL

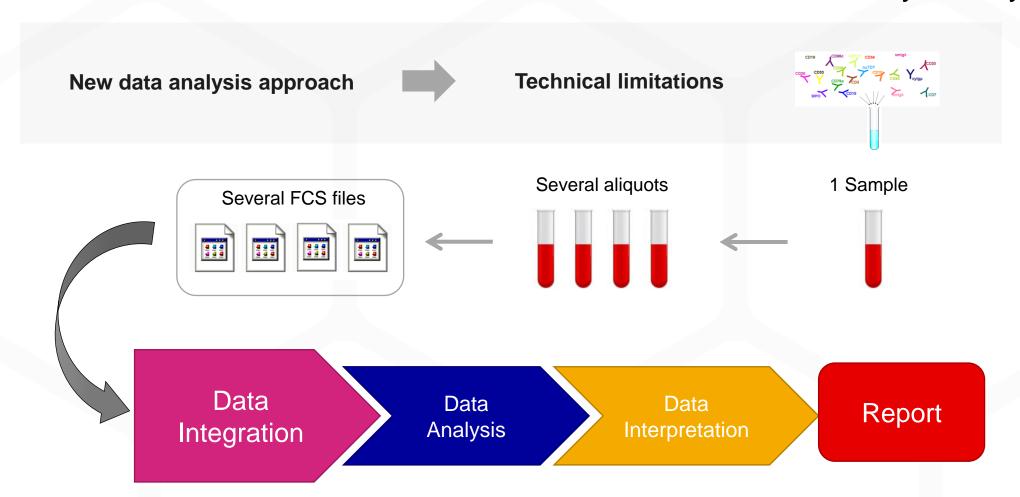
Technical limitations are derived from multicolor flow cytometry.





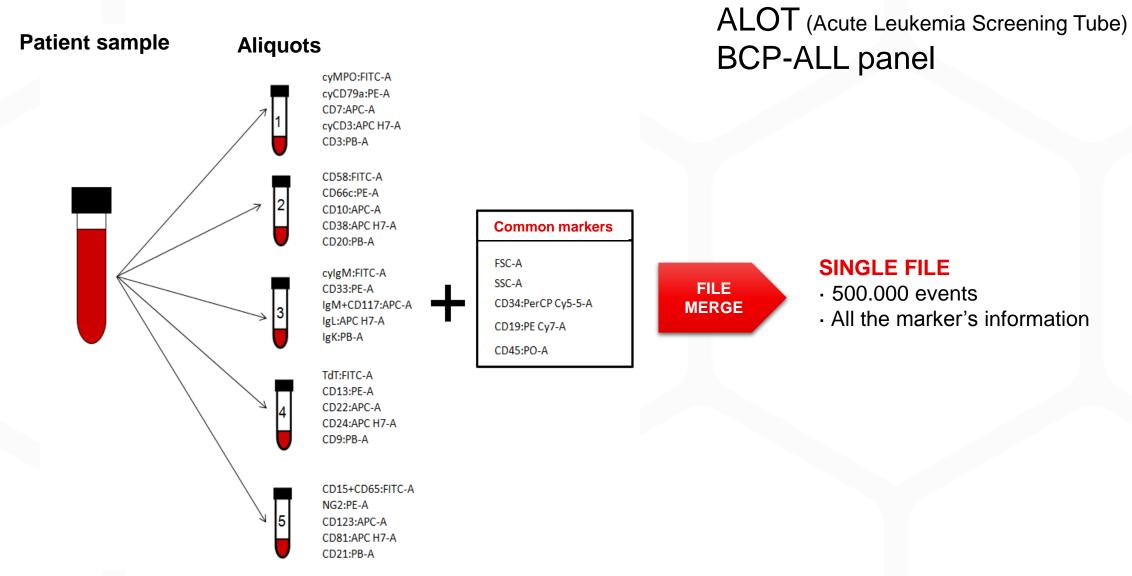
WHY SHOULD WE USE THE FILE MERGE TOOL?

To overcome technical limitations derived from multicolor flow cytometry.



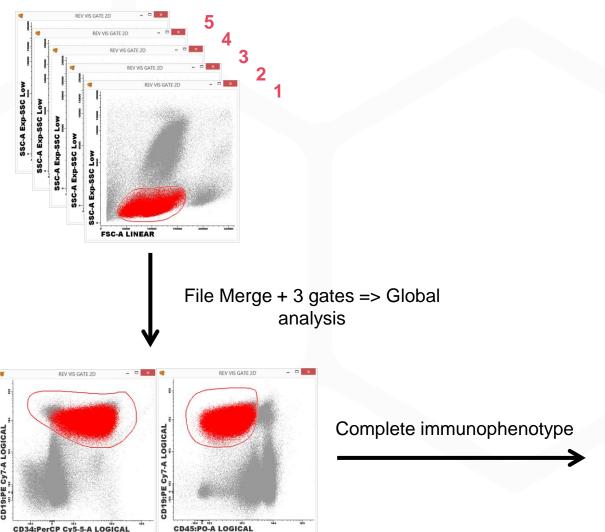


APPLICATIONS OF THE FILE MERGE TOOL

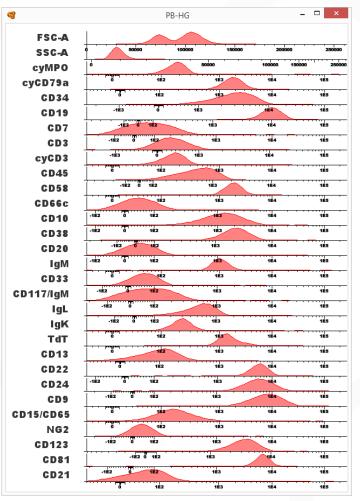




APPLICATIONS OF THE FILE MERGE TOOL



ALOT (Acute Leukemia Screening Tube) BCP-ALL panel





CALCULATE DATA VS FILE MERGE

ALOT (Acute Leukemia Screening Tube) BCP-ALL panel

File Merge

File Parameters Info					
Parameter\File	1	2	3	4	5
FSC-A	С	С	С	С	С
SSC-A	С	С	С	С	С
FITC-A:CD8+IgL	R				
PE-A:CD56+IgK	R				
PerCP Cy5-5-A:CD5	R				
PE Cy7-A:CD19	С	С	С	С	С
APC-A:CD3	R				
APC H7-A:CD38	R				
PO-A:CD45	С	С	С	С	С
FITC-A:CD23		R			
PE-A:CD10		R			
PerCP Cy5-5-A:CD79b		R			
APC-A:CD200		R			
CD20:PB-A	С	С	С	С	С
APC H7-A:CD43		R			
FITC-A:CD31			R		
PE-A:LAIR1			R		
PerCP Cy5-5-A:CD11c			R		
APC-A:IgM			R		
APC H7-A:CD81			R		
FITC-A:CD103				R	
PE-A:CD95				R	
PerCP Cy5-5-A:CD22				R	
APC-A:CXCR5				R	
APC H7-A:CD49d				R	
FITC-A:CD62L					R
PE-A:CD39					R
PerCP Cy5-5-A:HLADR					R
APC-A:CD27					R
APC H7-A					R

Parameter\File	1	2	3	4	5
FSC-A	С	С	С	С	С
SSC-A	С	С	С	С	С
FITC-A:CD8+IgL	R	D	D	D	D
PE-A:CD56+IgK	R	D	D	D	D
PerCP Cy5-5-A:CD5	R	D	D	D	D
PE Cy7-A:CD19	С	С	С	С	С
APC-A:CD3	R	D	D	D	D
APC H7-A:CD38	R	D	D	D	D
PO-A:CD45	С	С	С	С	С
FITC-A:CD23	D	R	D	D	D
PE-A:CD10	D	R	D	D	D
PerCP Cy5-5-A:CD79b	D	R	D	D	D
APC-A:CD200	D	R	D	D	D
CD20:PB-A	С	С	С	С	С
APC H7-A:CD43	D	R	D	D	D
FITC-A:CD31	D	D	R	D	D
PE-A:LAIR1	D	D	R	D	D
PerCP Cy5-5-A:CD11c	D	D	R	D	D
APC-A:IgM	D	D	R	D	D
APC H7-A:CD81	D	D	R	D	D
FITC-A:CD103	D	D	D	R	D
PE-A:CD95	D	D	D	R	D
PerCP Cy5-5-A:CD22	D	D	D	R	D
APC-A:CXCR5	D	D	D	R	D
APC H7-A:CD49d	D	D	D	R	D
FITC-A:CD62L	D	D	D	D	R
PE-A:CD39	D	D	D	D	R
PerCP Cy5-5-A:HLADR	D	D	D	D	R
APC-A:CD27	D	D	D	D	R
APC H7-A	D	D	D	D	R

Calculate Data



AGENDA



- **✓** Reference Image
- ✓ Compass tool
- ✓ Maturation tool
- ✓ Report
- ✓ EuroFlow™ Databases for sample comparison

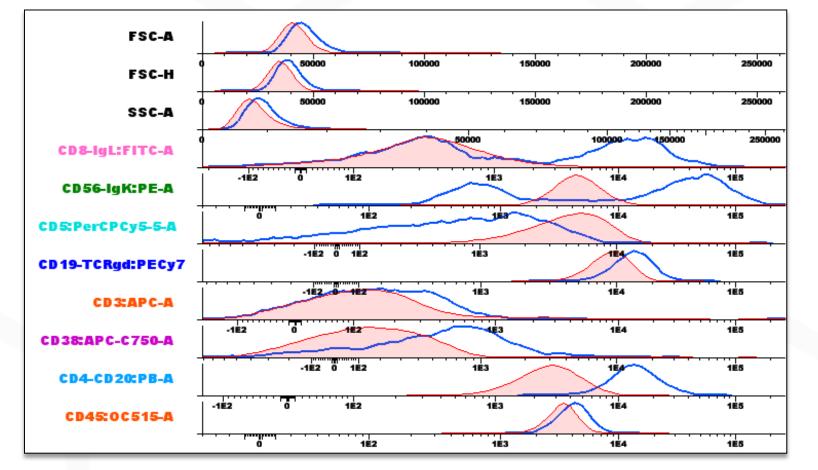


REFERENCE IMAGE

New approach to data interpretation



Stored references helps with interpretation which will not only be experiencebased







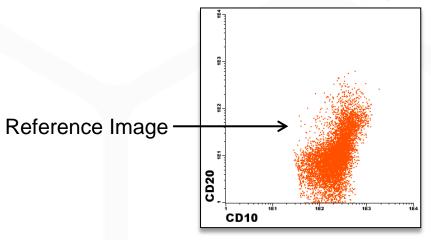


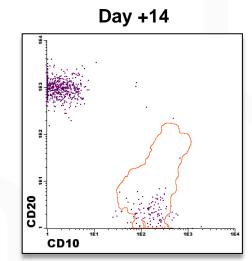


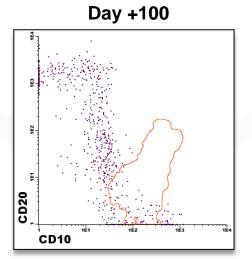
APPLICATIONS OF THE REFERENCE IMAGE TOOL

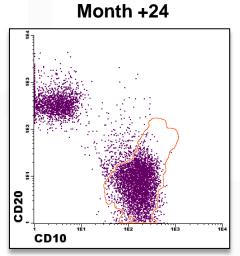
Follow-up of disease









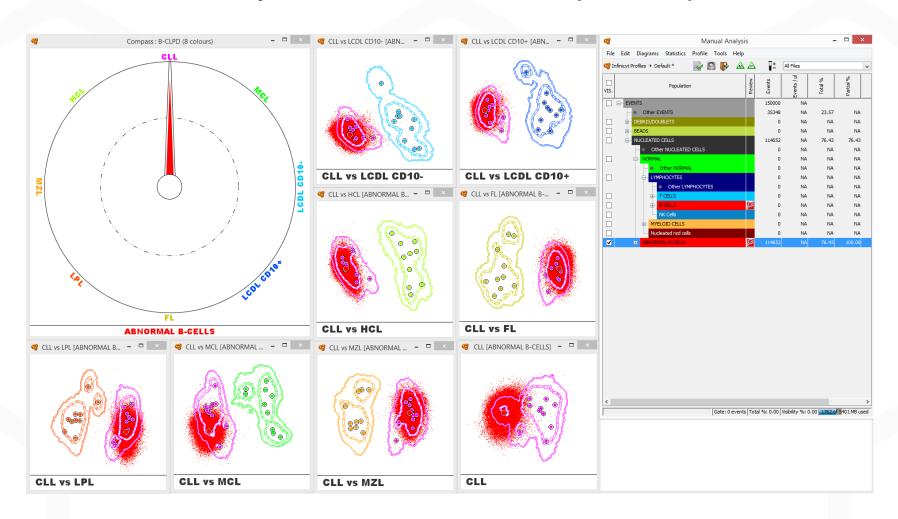






DATA INTERPRETATION - COMPASS TOOL

Study case vs Reference cases (Database)





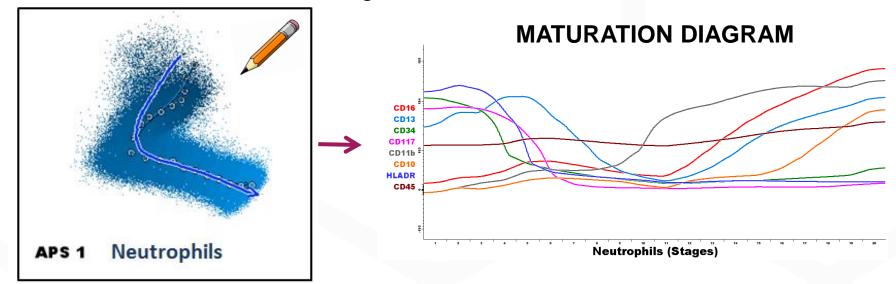




DATA INTERPRETATION - MATURATION TOOL

Assesment of maturation pathways

- 1. Identify the population of interest
- 2. Draw the Maturation Path on the APS Diagram
- 3. Assess the Maturation Diagram

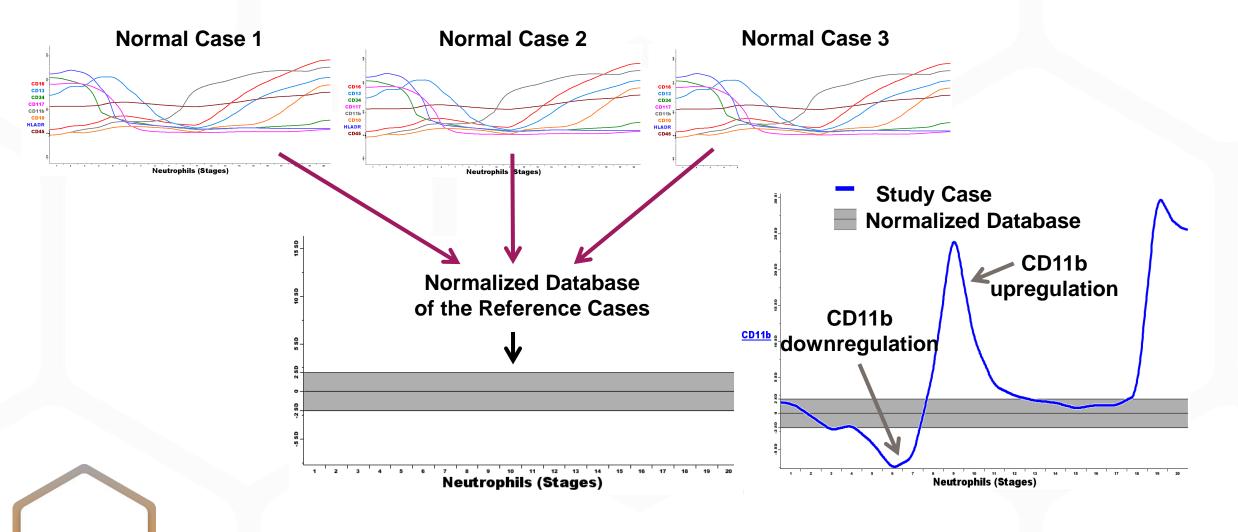






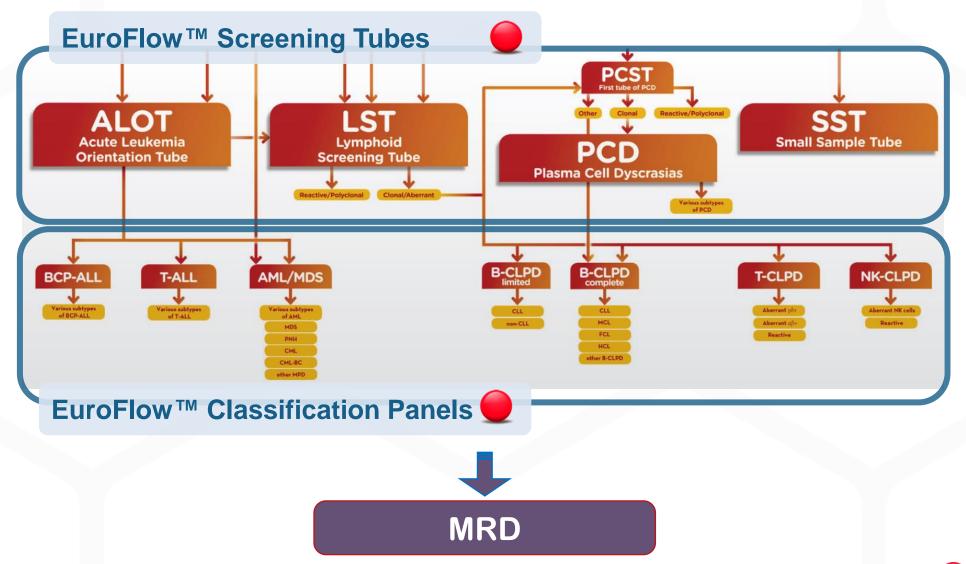
DATA INTERPRETATION - MATURATION TOOL

Exclusive tool!



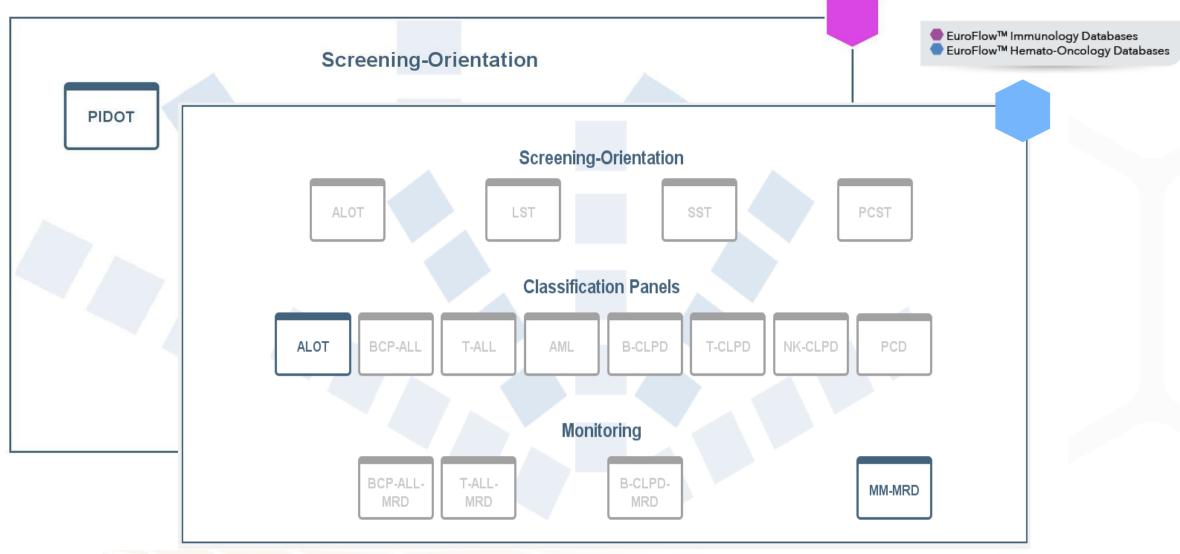


EUROFLOW™ WORKFLOW





EUROFLOW™ DATABASES



EuroFlow™ Databases for screening, classification and monitoring of hematological and immunological malignancies.



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