



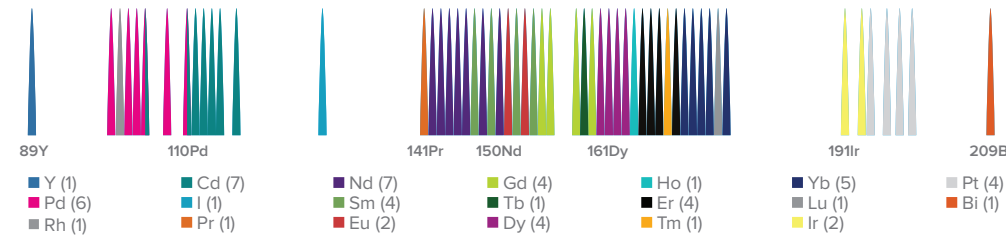
# THE CYTOF ADVANTAGE

Reasons to take your high-dimensional research beyond the limits of fluorescence

# 1

## Precision data with discrete signals

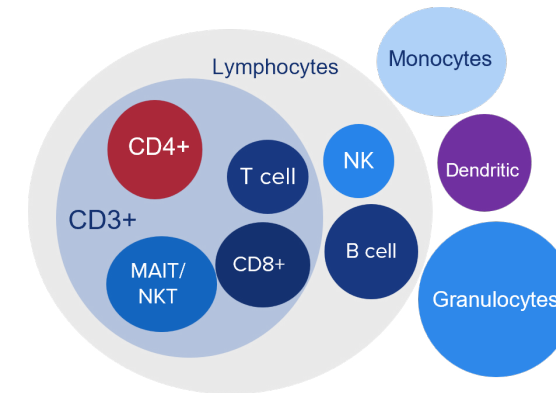
Not impacted by spectral overlapping of fluorochromes and tissue autofluorescence



# 4

## Capture rare or unexpected cell populations

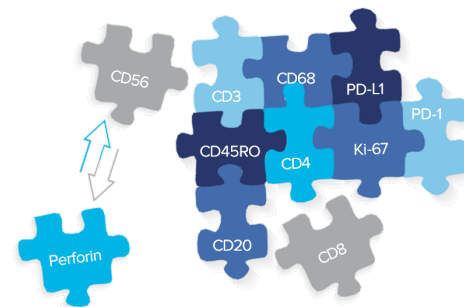
Unbiased, high-dimensional profiling of 40-plus markers to uncover diverse immune subpopulations



# 2

## Easy panel design to complete experiments faster

Large number of available antibodies without overlap simplifies panel design and expansion

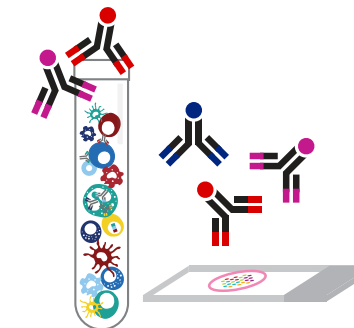


Start with ready-to-go panels and easily swap markers in and out

# 5

## Minimal sample required, saving on limited clinical research material

Simultaneous staining and detection from a single tube or tissue scan, without multiple staining controls or time-consuming cyclic protocols



# 3

## Reproducible and comparable

Stained samples can be frozen, stored and shipped to support longitudinal studies and multi-site workflows



# 6

## Trusted by researchers

The leading technology for high-parameter immune research



>2,000 publications



>200 clinical trials

## Cytometry by time-of-flight (CyTOF® technology)

Applies purified heavy-metal labels, not normally found in biological systems, instead of fluorophores



## Risks of fluorescence for high-parameter studies



Missed cell populations or false positives



More iterations required in panel design



Reduced sensitivity where fluorescence overlap occurs



Higher resource use to compensate for spectral overlap



