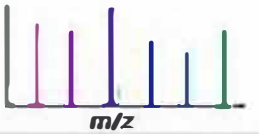
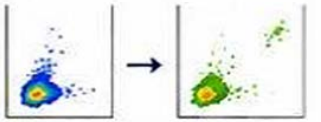
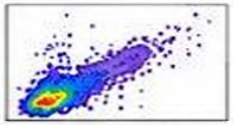
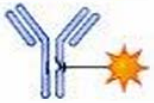
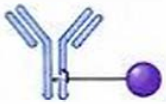
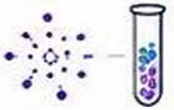
FLUORESCENCE FLOW CYTOMETRY		MASS CYTOMETRY (CyTOF)
Broad, overlapping emission spectra	Signal Generation	Discrete metal isotope masses 
Compensation or spectral unmixing required 	Data Processing	No compensation 
Spillover spreading error 	Data Quality	Minimal channel overlap 
Affected by autofluorescence 	Background	No autofluorescence 
Tandem dye instability 	Reagent Stability	Stable metal isotopes 
Limited multiplexing (10–45 parameters typical) 	Multiplexing Capacity	50+ markers routinely 
Complex panel design and optimization 	Panel Design	More straightforward panel design 
Live-cell sorting possible 	Cell Recovery	Cells are destroyed during analysis 
Fast acquisition (high event rate) 	Acquisition Speed	Slower acquisition (lower event rate)