



**Lim Chwee Teck**  
NUS Professor

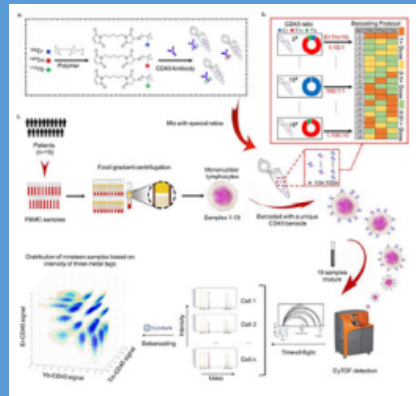
Prof Lim's research interests include development of microfluidic technologies for human disease diagnosis and precision medicine. He did numerous work on CTCs and developed a CTCs separation system which have already been approved by FDA.



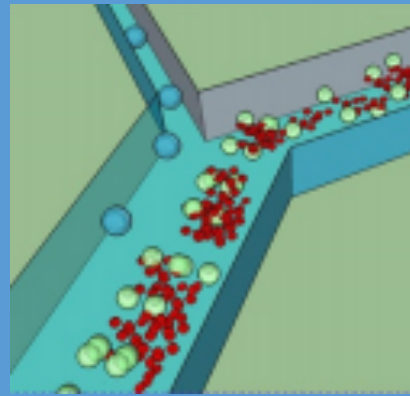
**CTC separation**

# Probing tumor heterogeneity through single cell analysis of CTCs

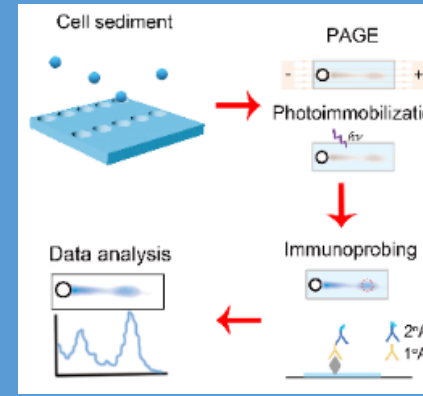
Representing molecular characteristics of primary tumor sites, circulating tumor cells (CTCs) examination is instrumental in investigating intratumor heterogeneity, which is a major obstacle to effective therapy and personalized medicine. The isolation and protein expression profiling of CTCs from peripheral blood facilitate the non-invasive real-time cancer diagnosis, monitoring and prognosis predicting. Combining CTCs separation with single cell analysis system will be a promising trend in CTCs analysis.



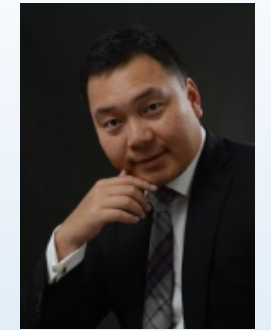
**CyTOF**



**CTC separation**

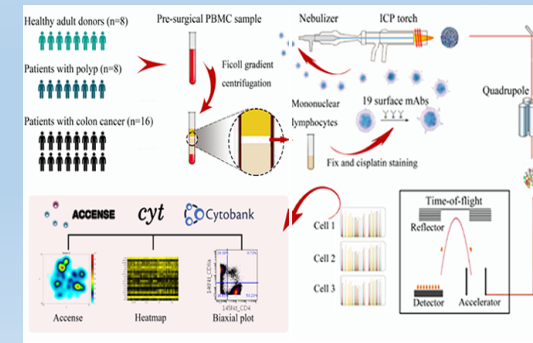


**SCWB**



**Xianting Ding**  
SJTU Professor

Prof Ding's research interests focus on single cell protein analysis with trace clinical specimens. The technique developed in his lab includes mass cytometry technique for single-cell analysis; tissue topology mass spectrometry; single cell western blot (SCWB).



**CyTOF**