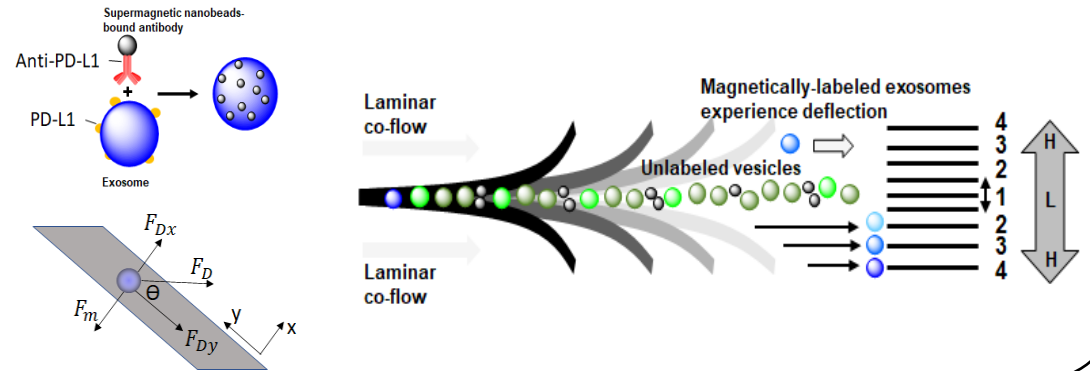


Development of a microfluidic chip for exosomal PD-L1 analysis in lung cancer

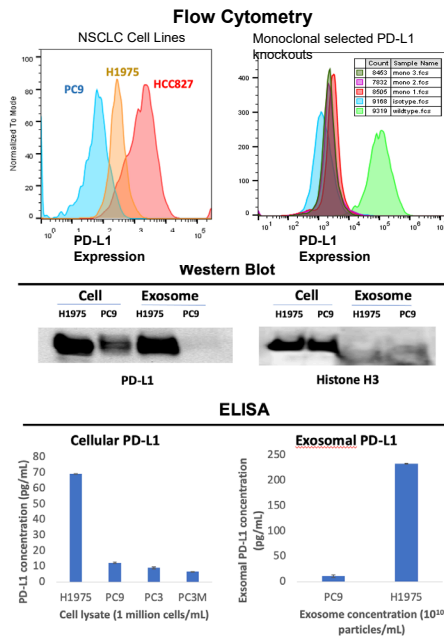
Bill Duong, Kangfu Chen, Alam Mahmud, Hansen Wang, Shana Kelley

Device Overview

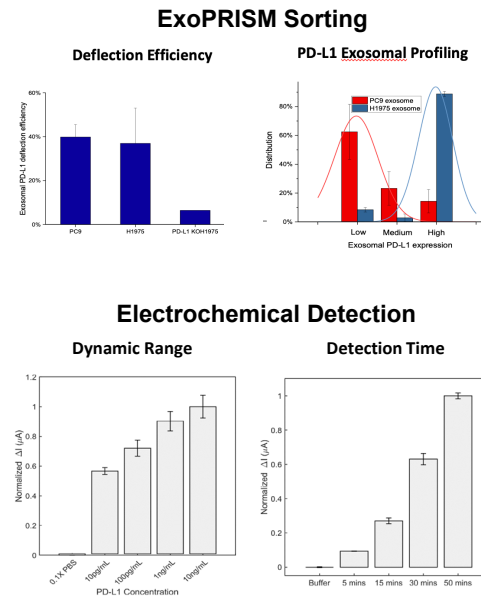
- ❑ Exosomes are magnetically labelled with antibodies targeting PD-L1
- ❑ Exosomes with more PD-L1 = more magnetic
- ❑ Magnetic guides patterned in the exoPRISM used to deflect magnetic nanobead-conjugated exosomes
- ❑ Exosomes are sorted based on their PD-L1 expression



Exosomal PD-L1 Expression



Device Performance



Tumor-Derived Exosomes

