

## Improvement of microfluidic efficiency and usability

### **Customer Challenge**

Currently short-life time of microfluidics due to biofouling and particle adhesion causing reduced flow

- Current solution – PEG is water-soluble and therefore short-lasting

### **Solution**

Grafting of PEG-like nanolayer using Molecular Plasma technology which is highly crosslinked and insoluble

### **Results**

- 6x increase in use time due to increased coating durability compared to traditional pre-functionalisation techniques
- Improved efficiency of microfluidic device – improved flowability, biosensory capacity