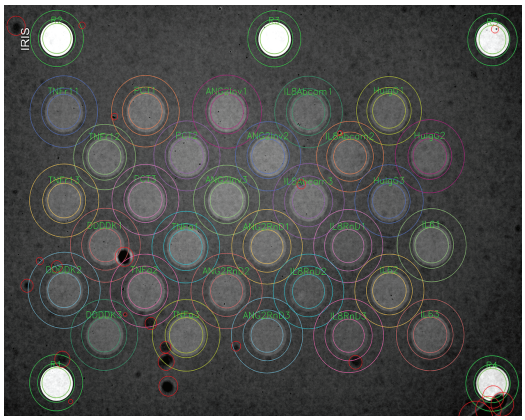
A typical IRIS experiment

Multiplex screen for selectivity, cross-reactivity, and affinity

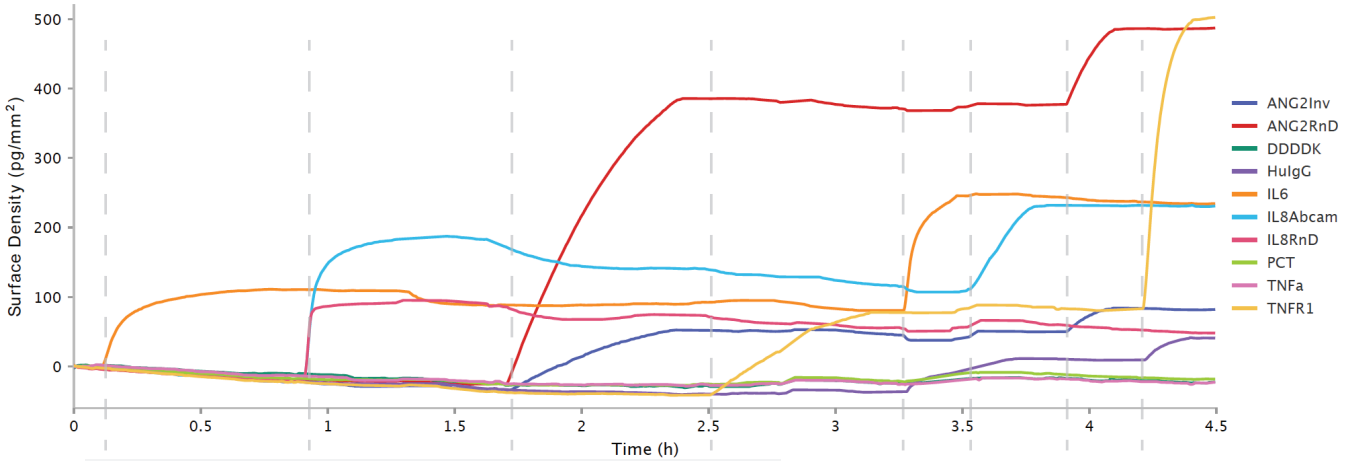
10 antibodies are spotted on an IRIS chip.

300 pL @ 1 mg/mL

This image is representative of the raw data.
The brighter the spot, the higher the mass attached to the chip surface.
The image corresponds to one of the final time point shown in the graph below.



4 antigens are then injected, in sequence, followed by 4 corresponding detection antibodies



IL-6 **IL-8** **Ang2** **TNFr1**

samples @ 100 ng/mL

Label-free detection of antigen binding

IL-6 D-aB **IL-8 D-aB** **Ang2 D-aB** **TNFr1 D-Ab**

D-Ab @ 1 ug/mL

Additional sensitivity via the use of detection antibodies

Example observations from this experiment:

- IL-6 only binds to the spotted IL-6 antibody, and nothing else.
- When IL-8 is injected, it binds with different affinities to the 2 spotted IL-8 antibodies (RnD and Abcam).
- When ANG2 is injected, it binds with different rates and affinities to the 2 spotted ANG2 antibodies (Invitrogen and RnD).
- TNFr1 only binds to the spotted TNFr1 antibody.

IRIS

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