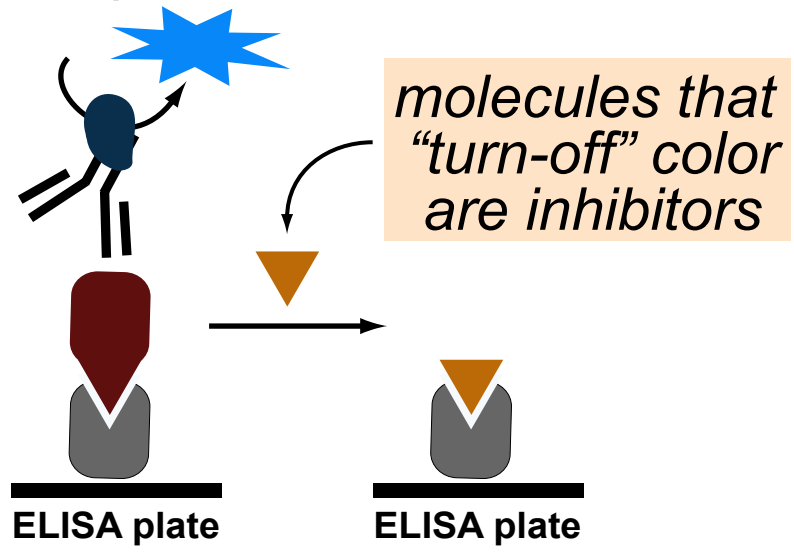
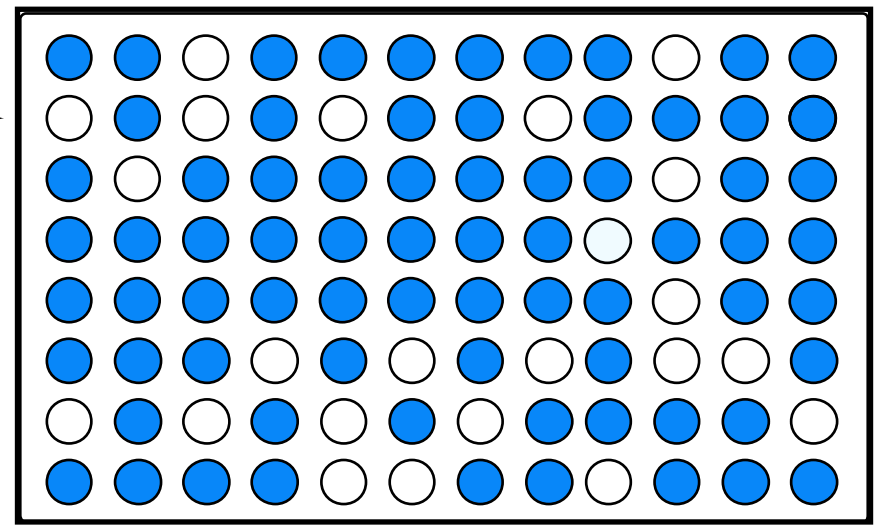


### A. Competitive ELISA Mechanism

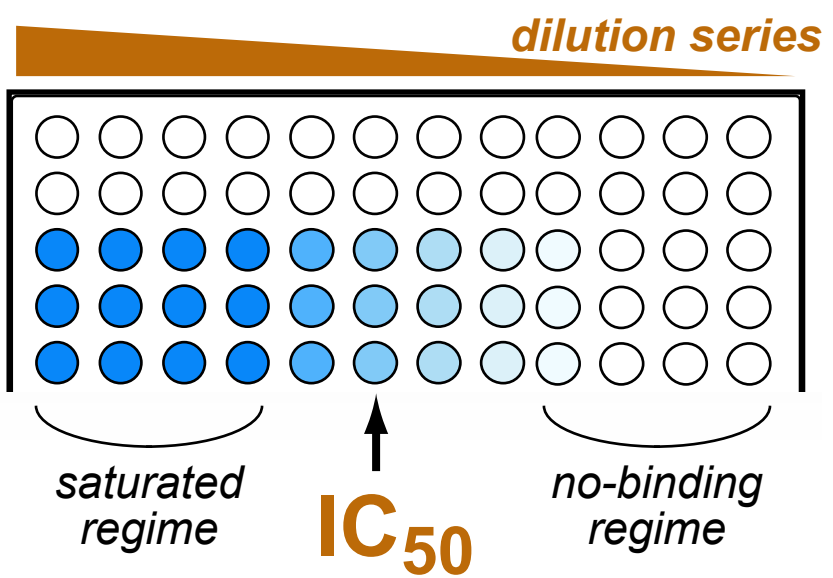


### B. 96-well plate/96-molecule screen



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### C. Rank "hit" molecules by IC<sub>50</sub>



### D. IC<sub>50</sub> correlates w/ binding constant

The diagram shows an inhibitor (represented by a brown triangle) and a natural ligand (represented by a red shape) competing for a binding site on a receptor. The Cheng-Prusoff Equation is shown as:

$$IC_{50} = K_i \left( 1 + \frac{[L]_t}{K_d} \right)$$

Cheng-Prusoff Equation