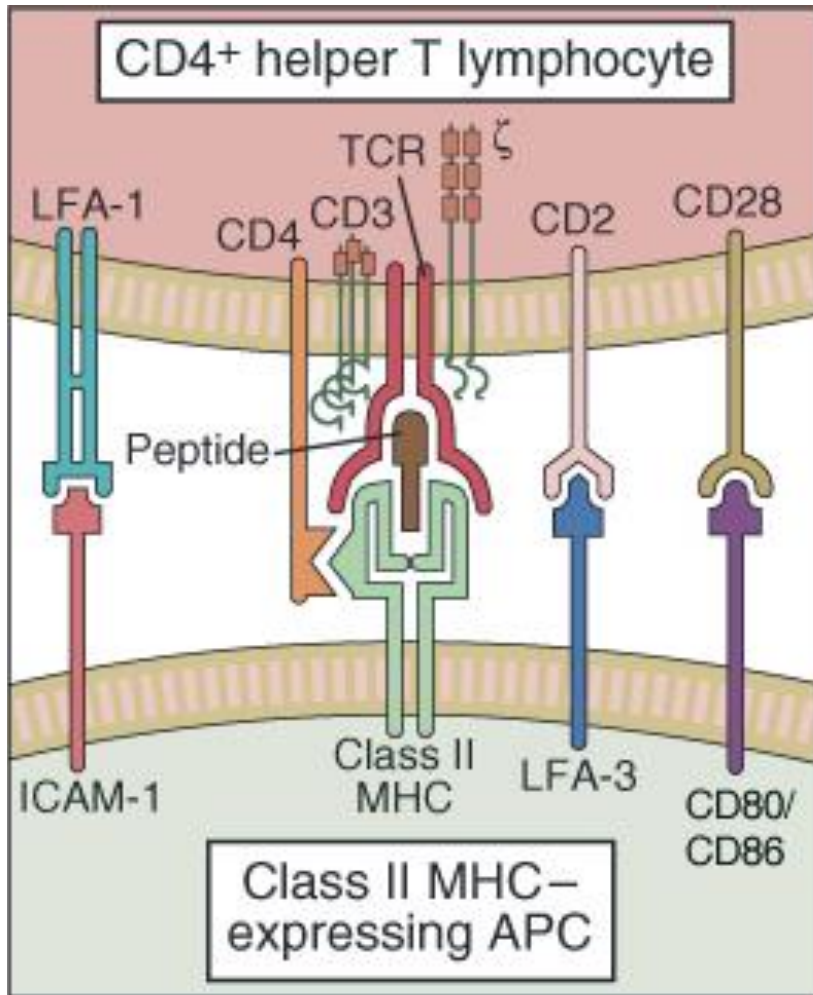
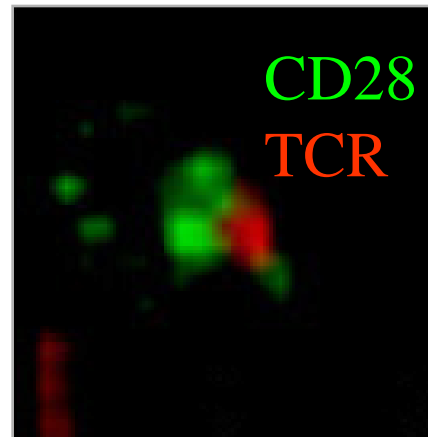


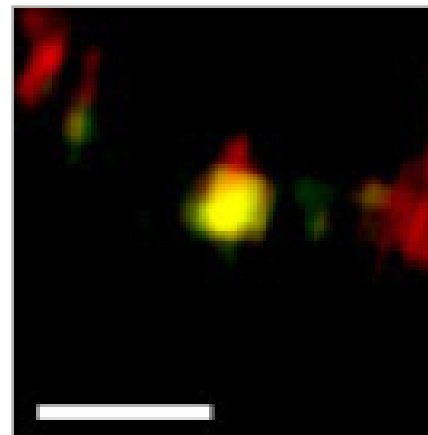
Micropatterned costimulation of T cells



Artificial APC:

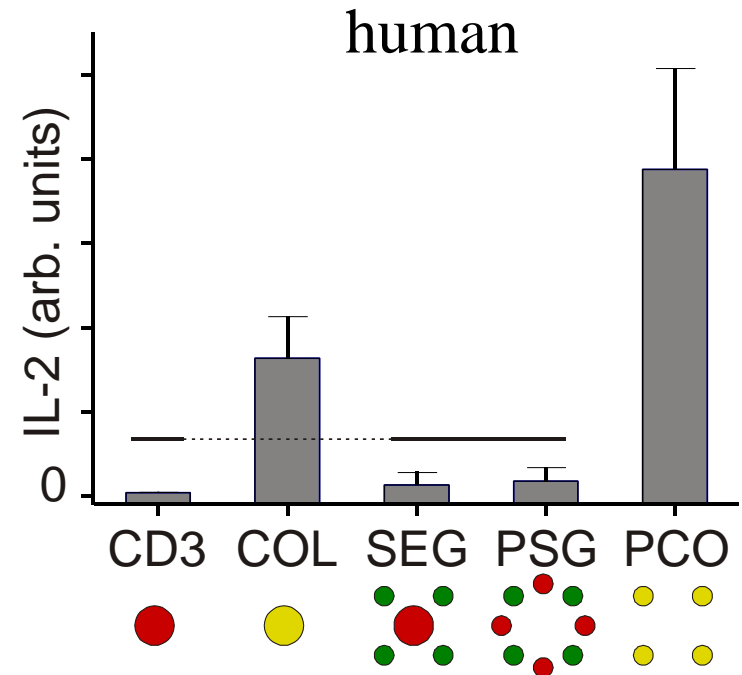
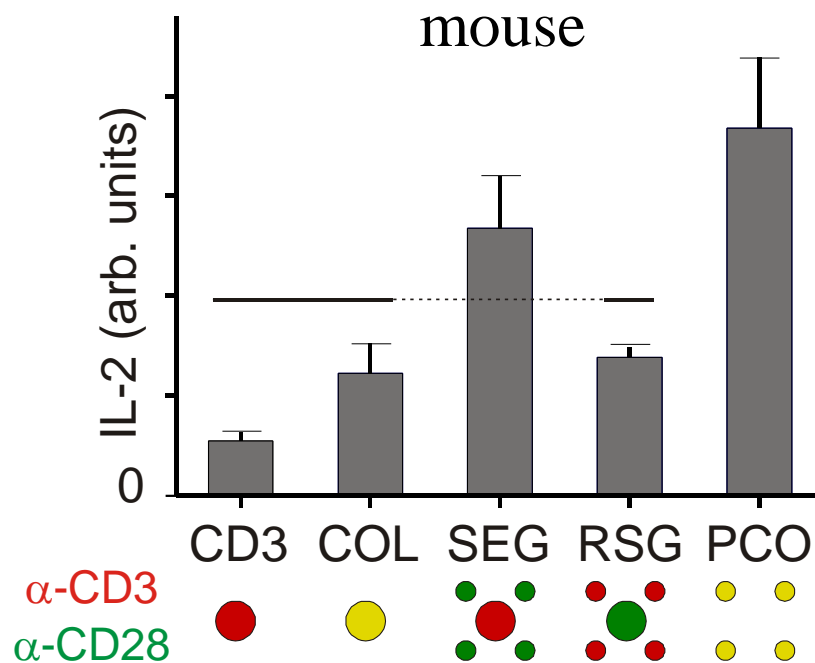
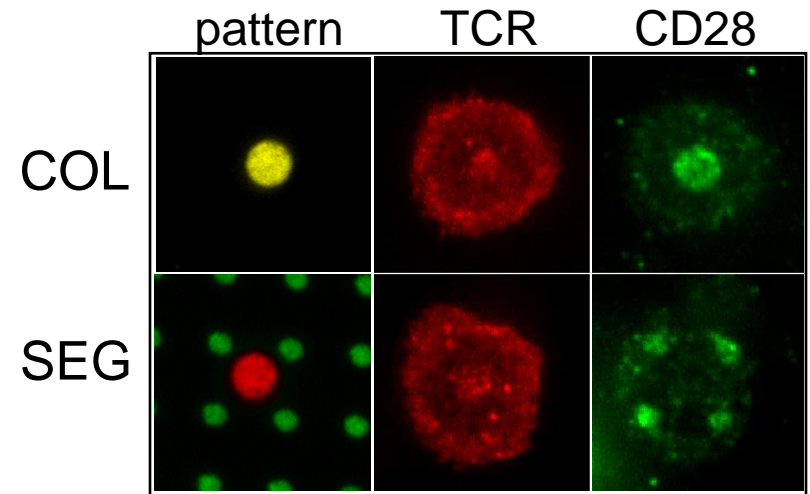
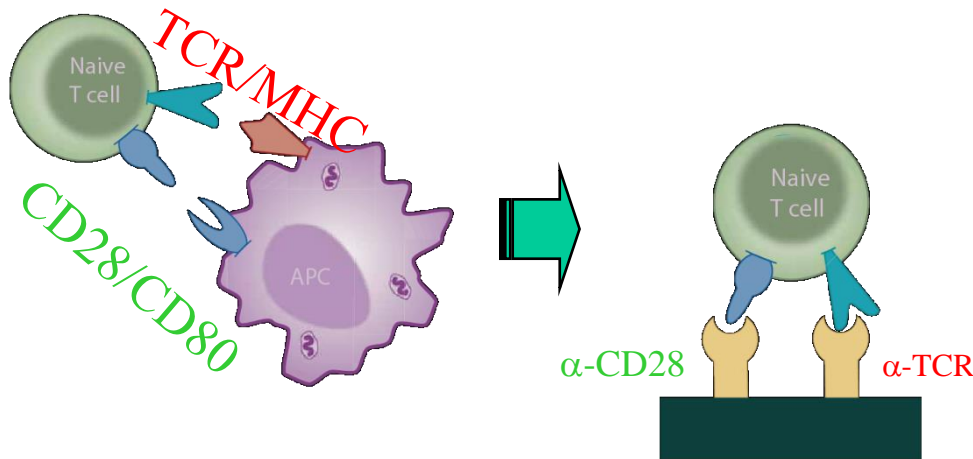


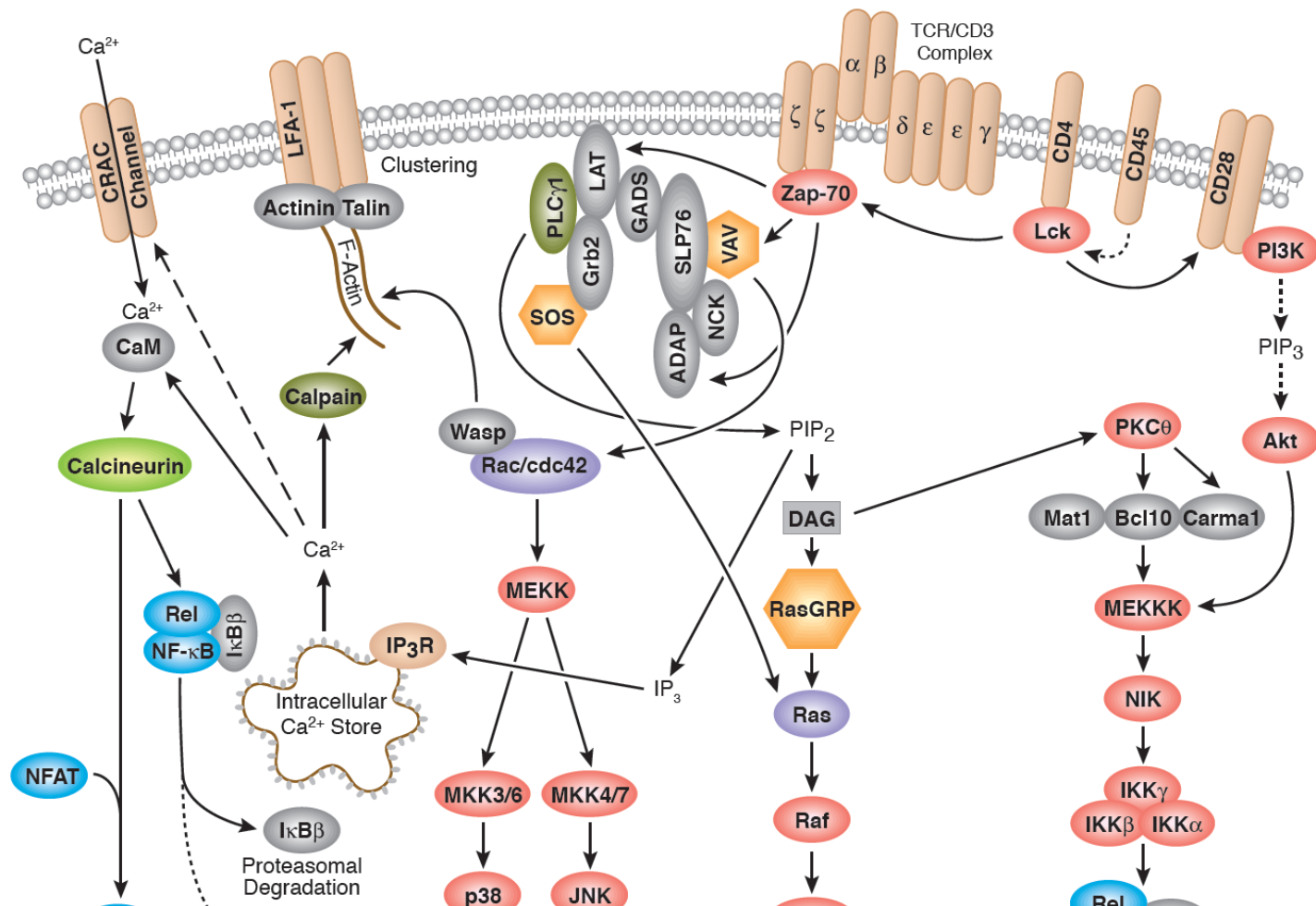
full length CD80
good stimulus



tail deleted CD80
weaker stimulus

Micropatterned costimulation of T cells





Chemical Kinetics

- Express a chemical reaction as a system of ODEs
- Focus on simplifications that allow insights into how these systems behave
- Full dynamical simulation