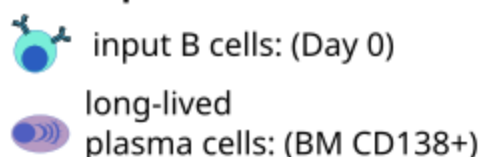
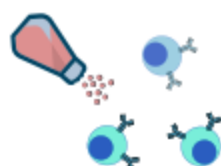
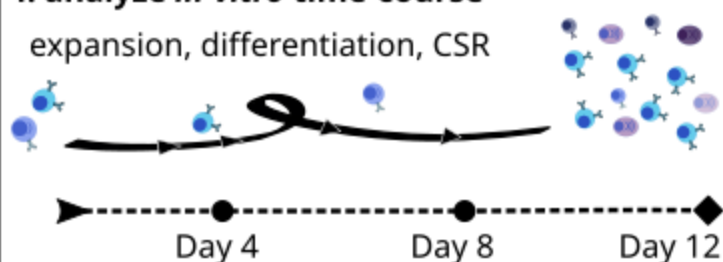
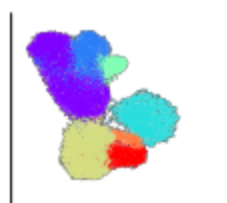


a.**1. purify B cells****2. analyze *in-vivo* samples****3. stimulate input w/ cytokines****4. analyze *in-vitro* time-course**

expansion, differentiation, CSR

**b****measurements**

cell fates



clonal origin

gene expression

c