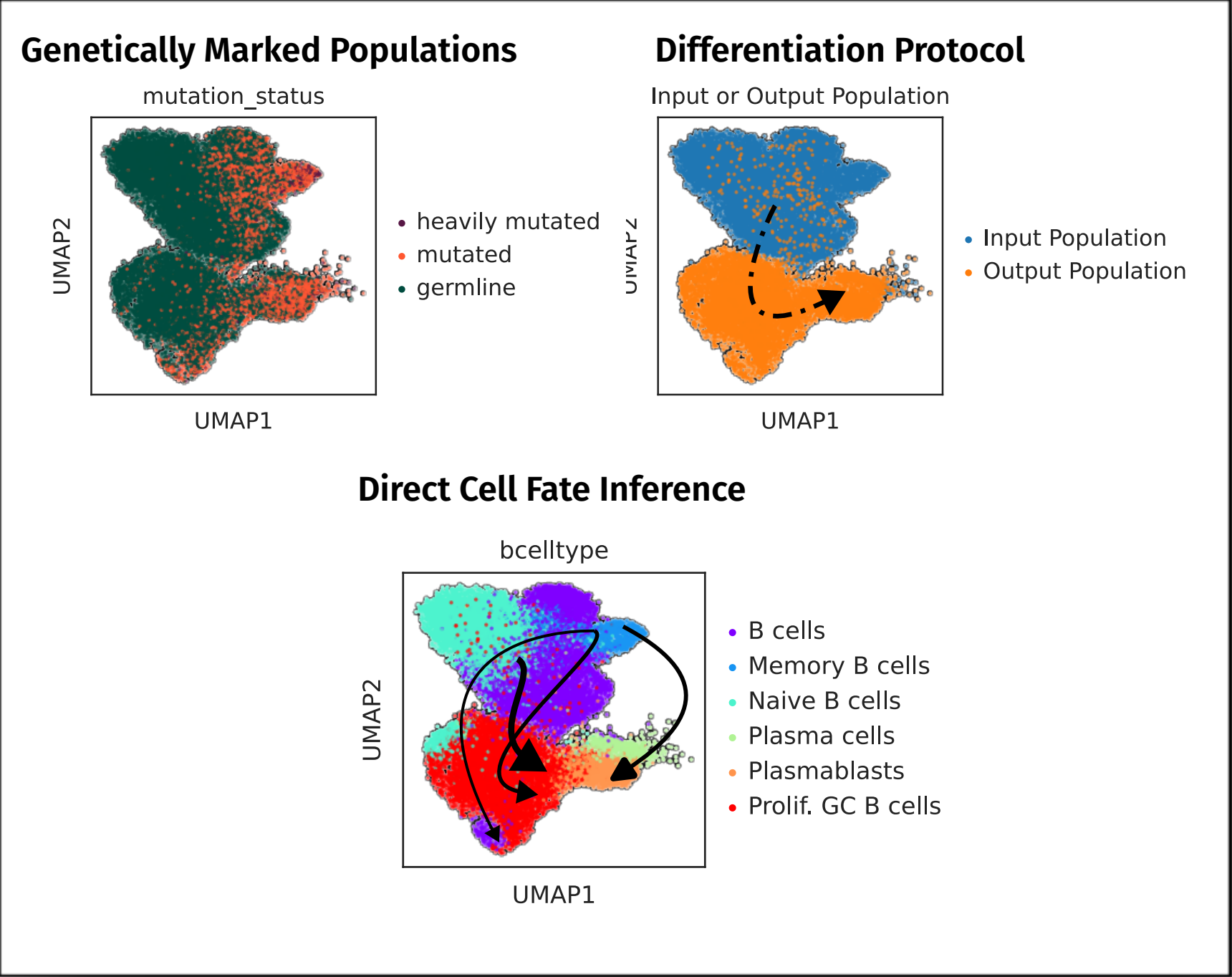
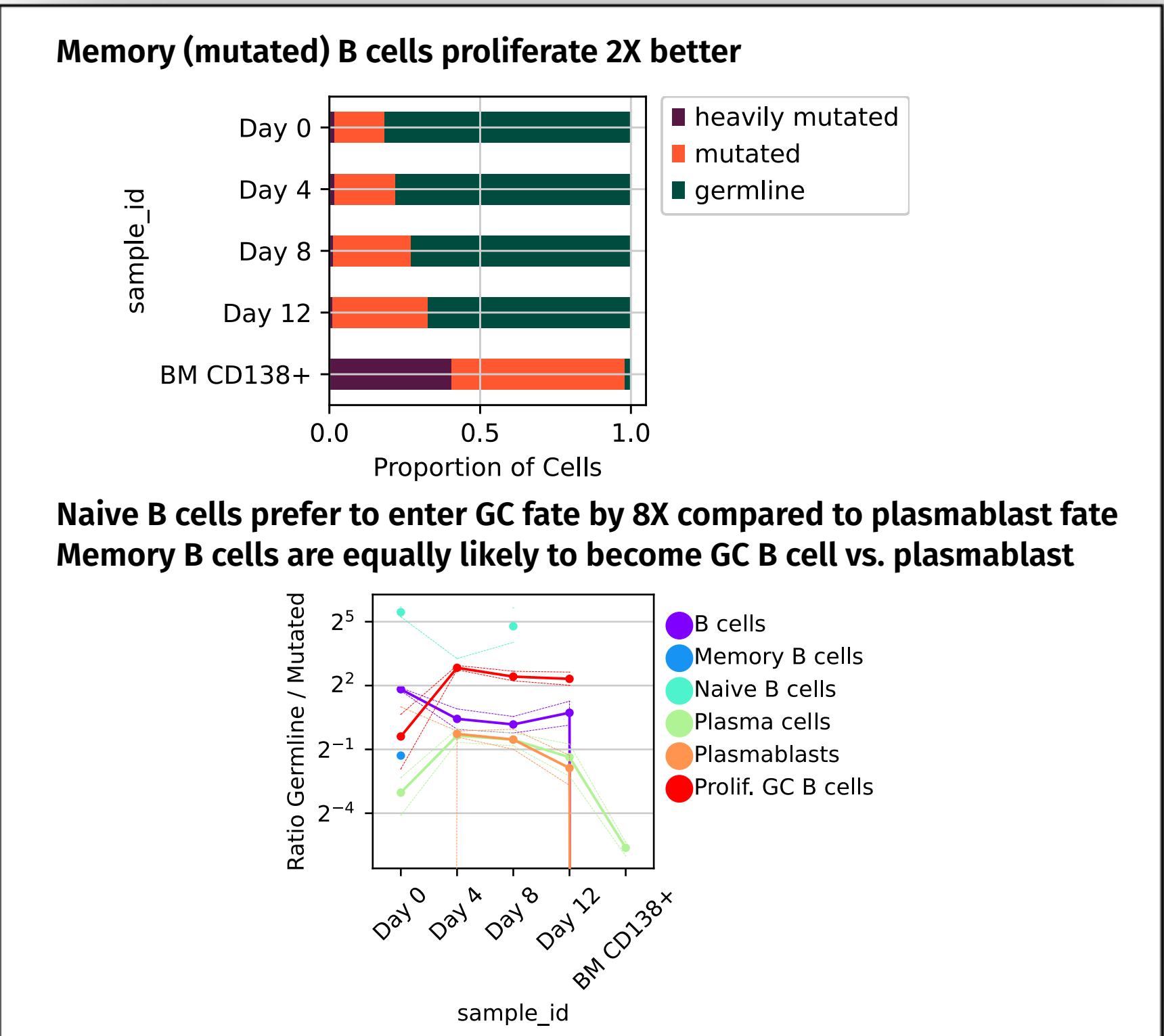


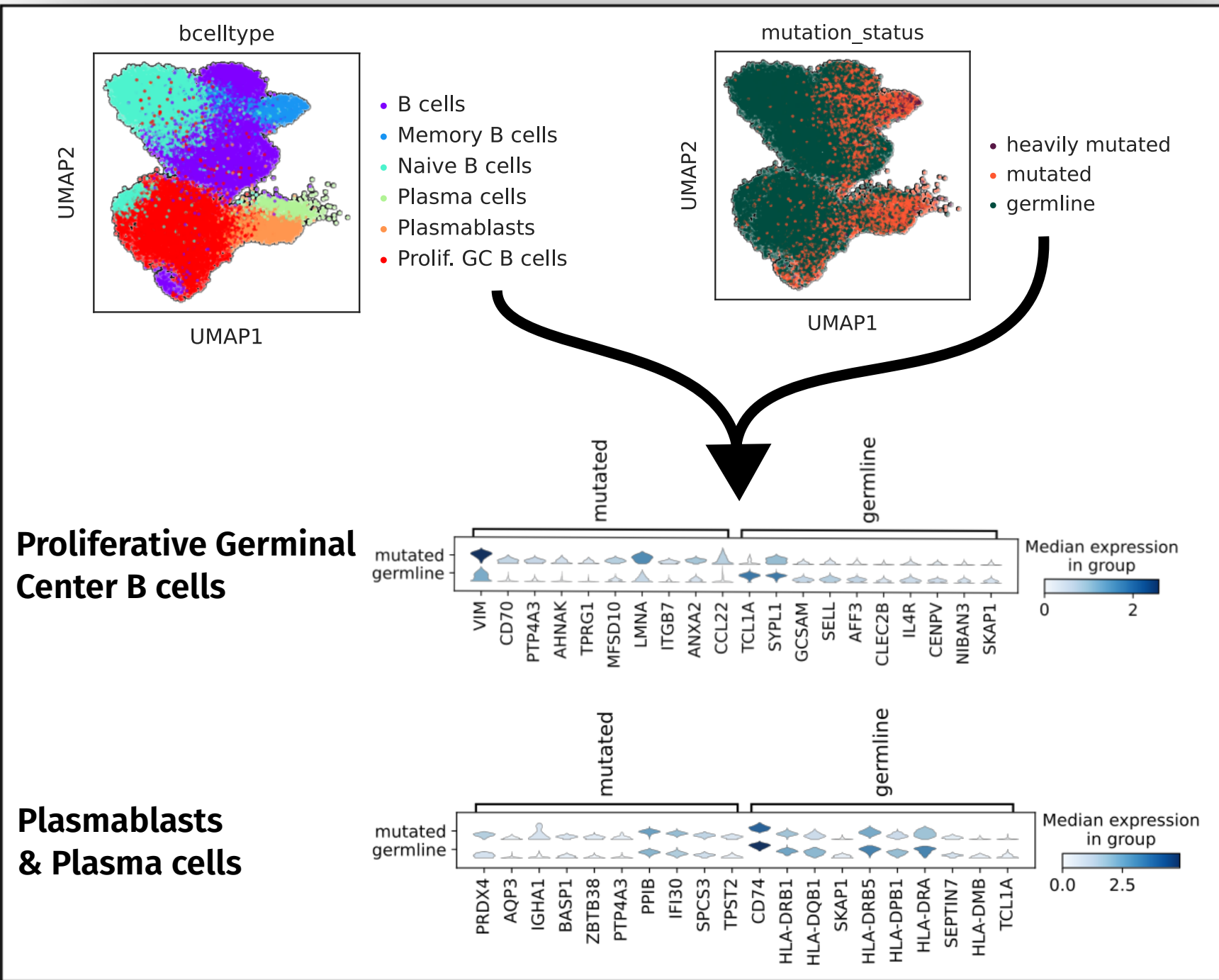
# Population Lineage Tracing



# Quantifying Cell Fate Biases

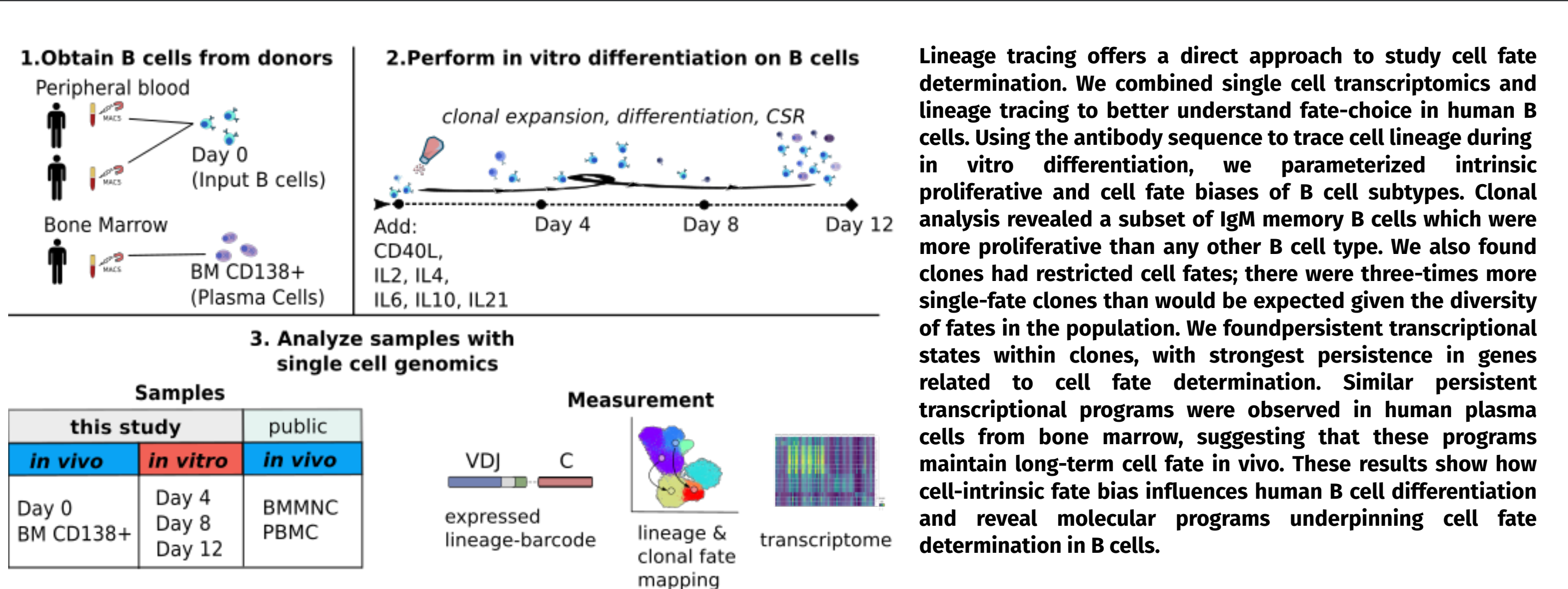


# Dissecting cell-intrinsic Expression Programs



# Lineage Tracing adds power to single-cell RNA sequencing

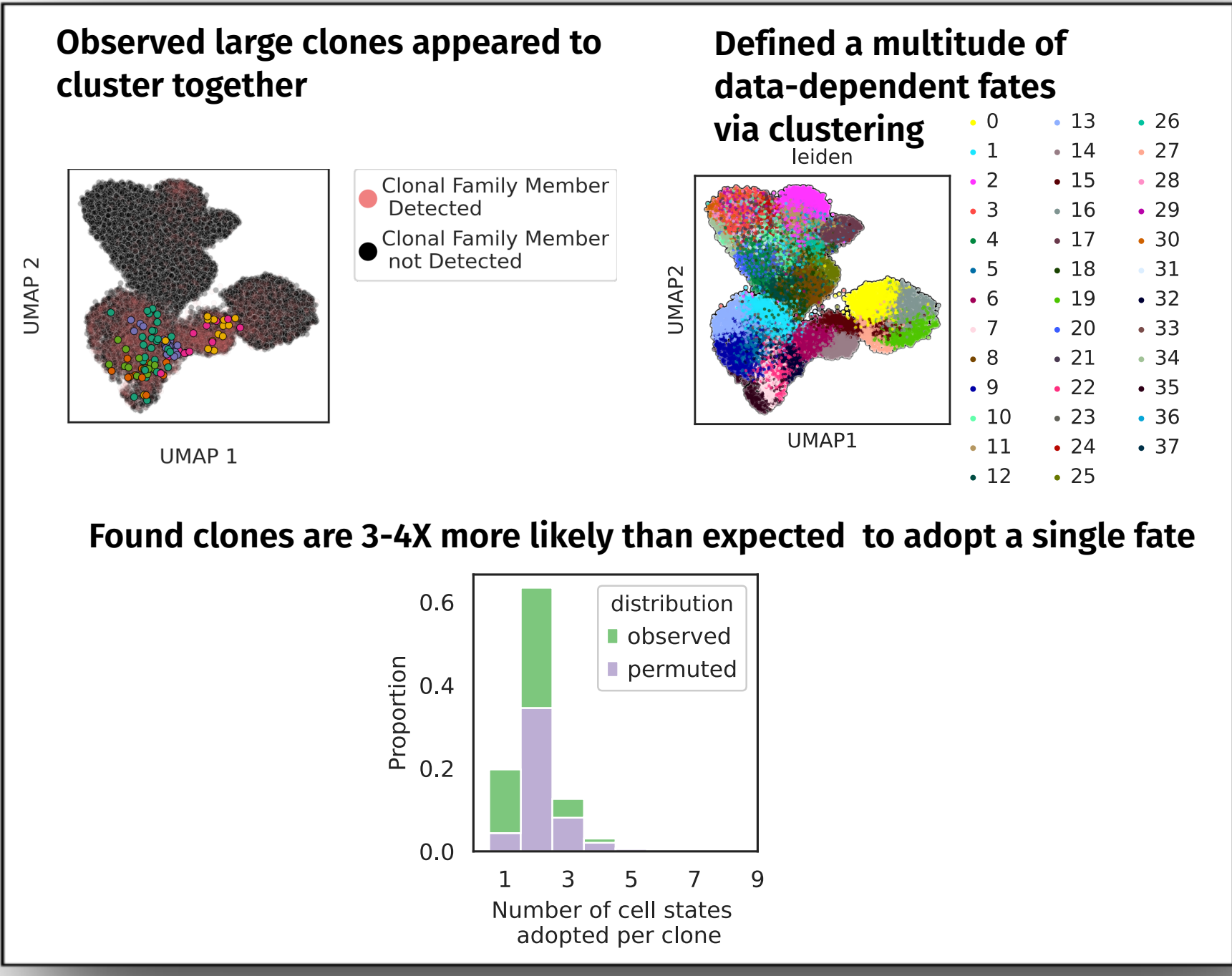
We combined lineage tracing with single-cell genomics to understand cell fate decisions



We identified and characterized cell fate biases in human B cells. These biases were explainable by intrinsic cell states, which could only be inferred using lineage tracing. Current cell classification schemes do not account for the strong clonal identities characterized here.

The lineage tracing approach we developed helps identify the molecular underpinnings of cell fate determination, and should become routine in developmental biology.

# Clonal Lineage Tracing



# Identifying rare, circulating Marginal Zone B cells

