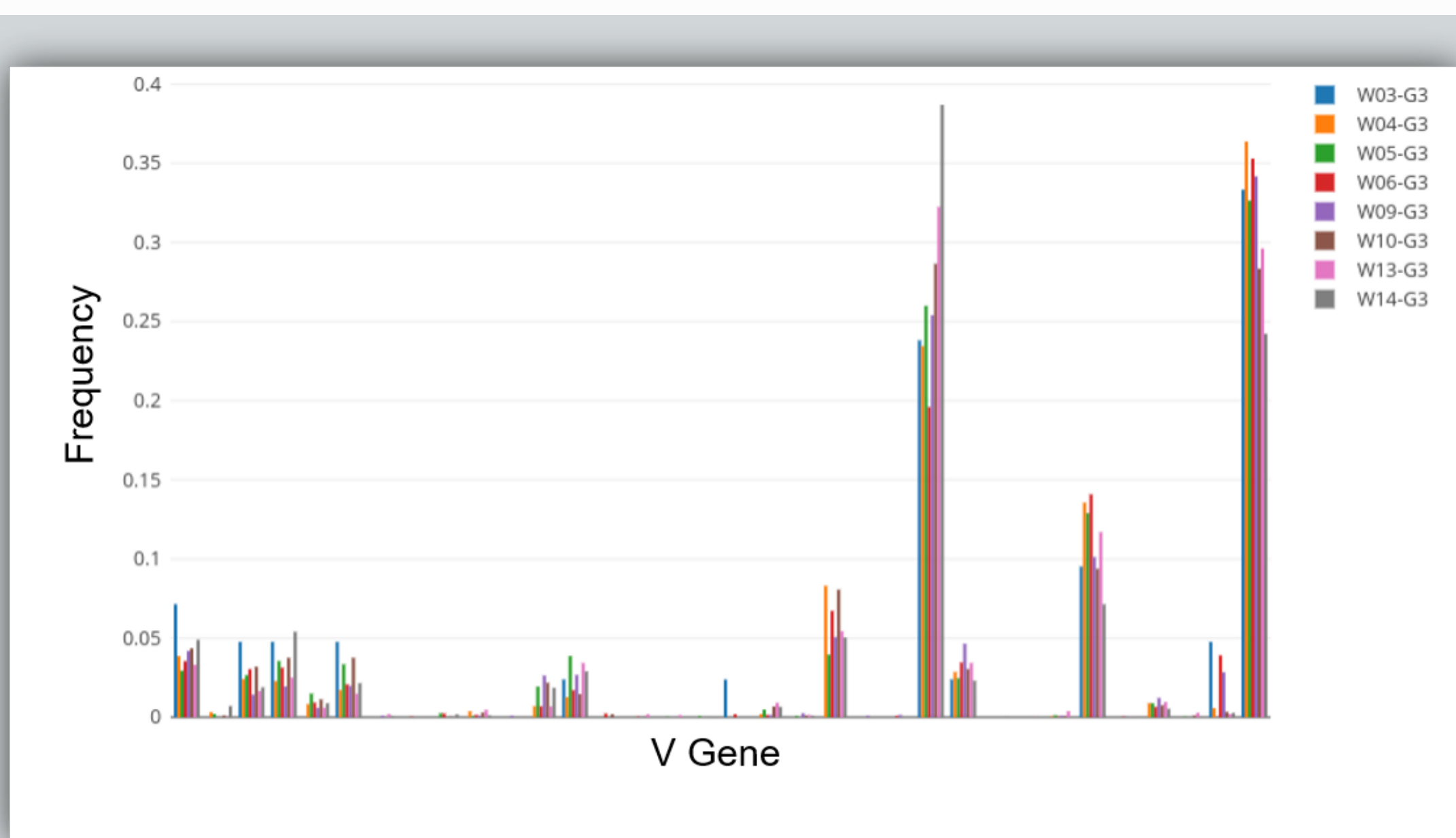
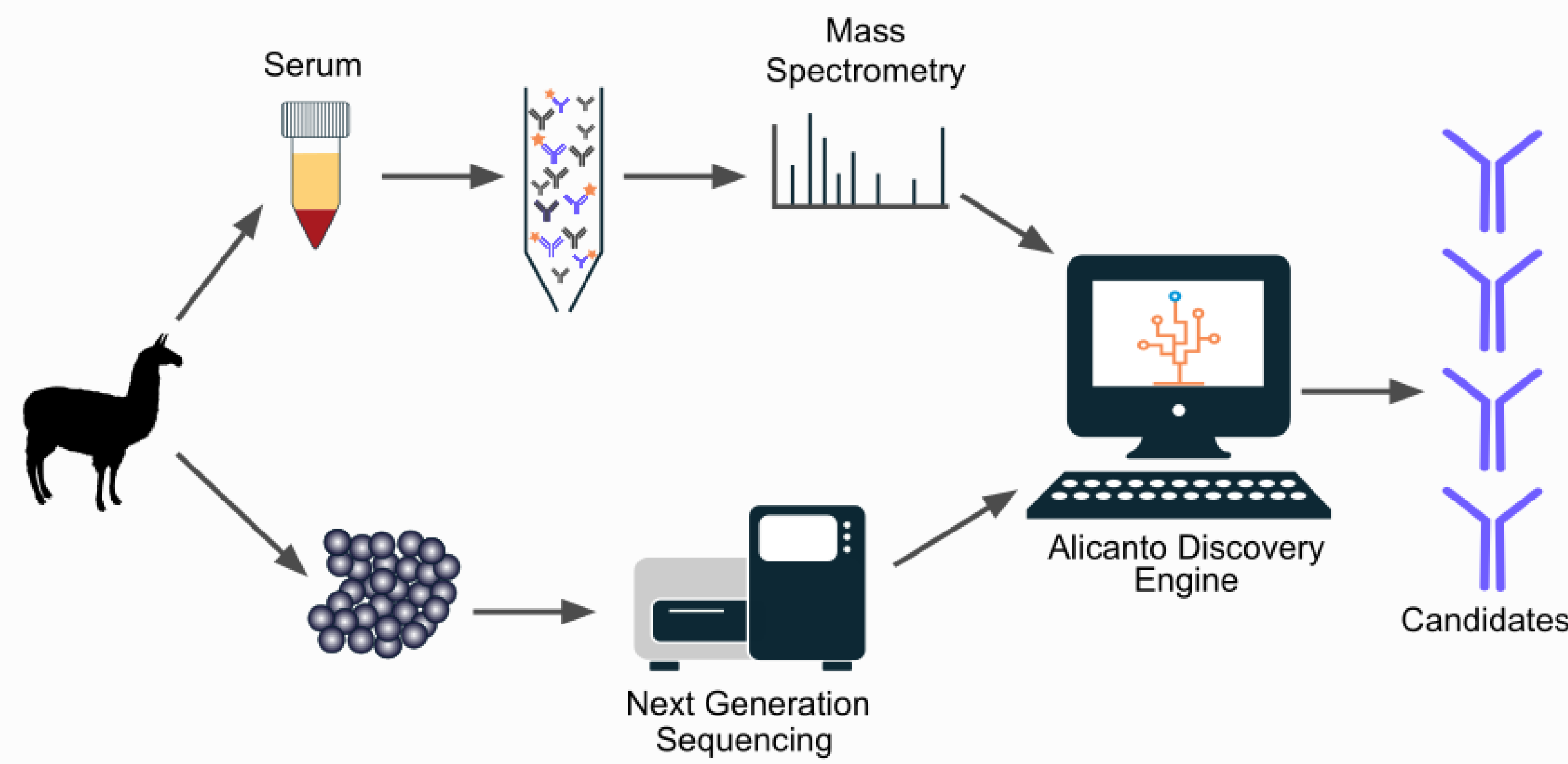


Next-generation repertoire sequencing for mining single domain antibodies

We used Alicanto, Abterra Bio's antibody discovery platform, to analyze the B-cell receptor (BCR) repertoire and serum antibodies in an immunized llama, focusing specifically on single-domain antibodies (sdAbs). Below we show major findings from Alicanto's analysis of the llama immune response to immunization.

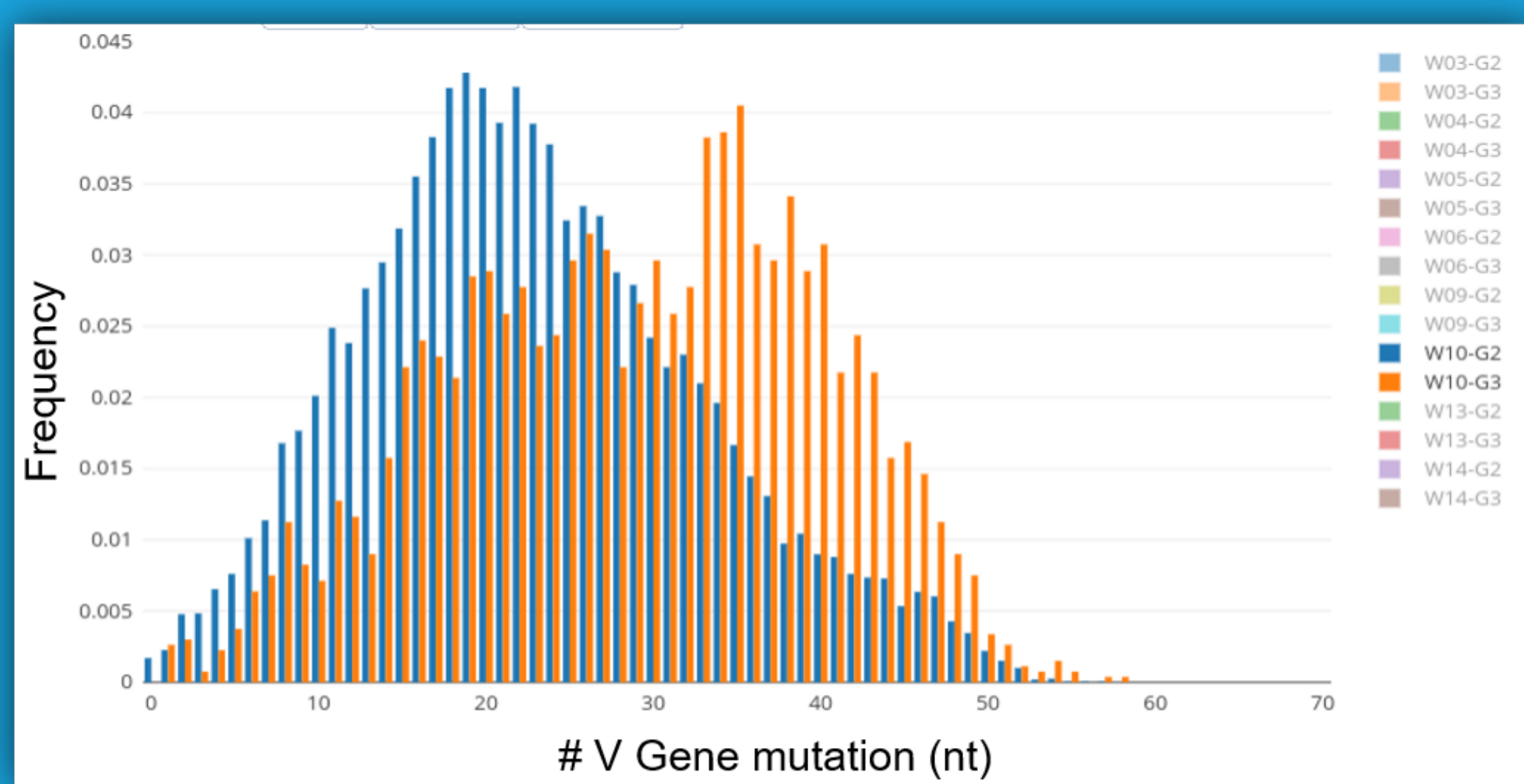
Watch the full PEGS Boston presentation [here](#).



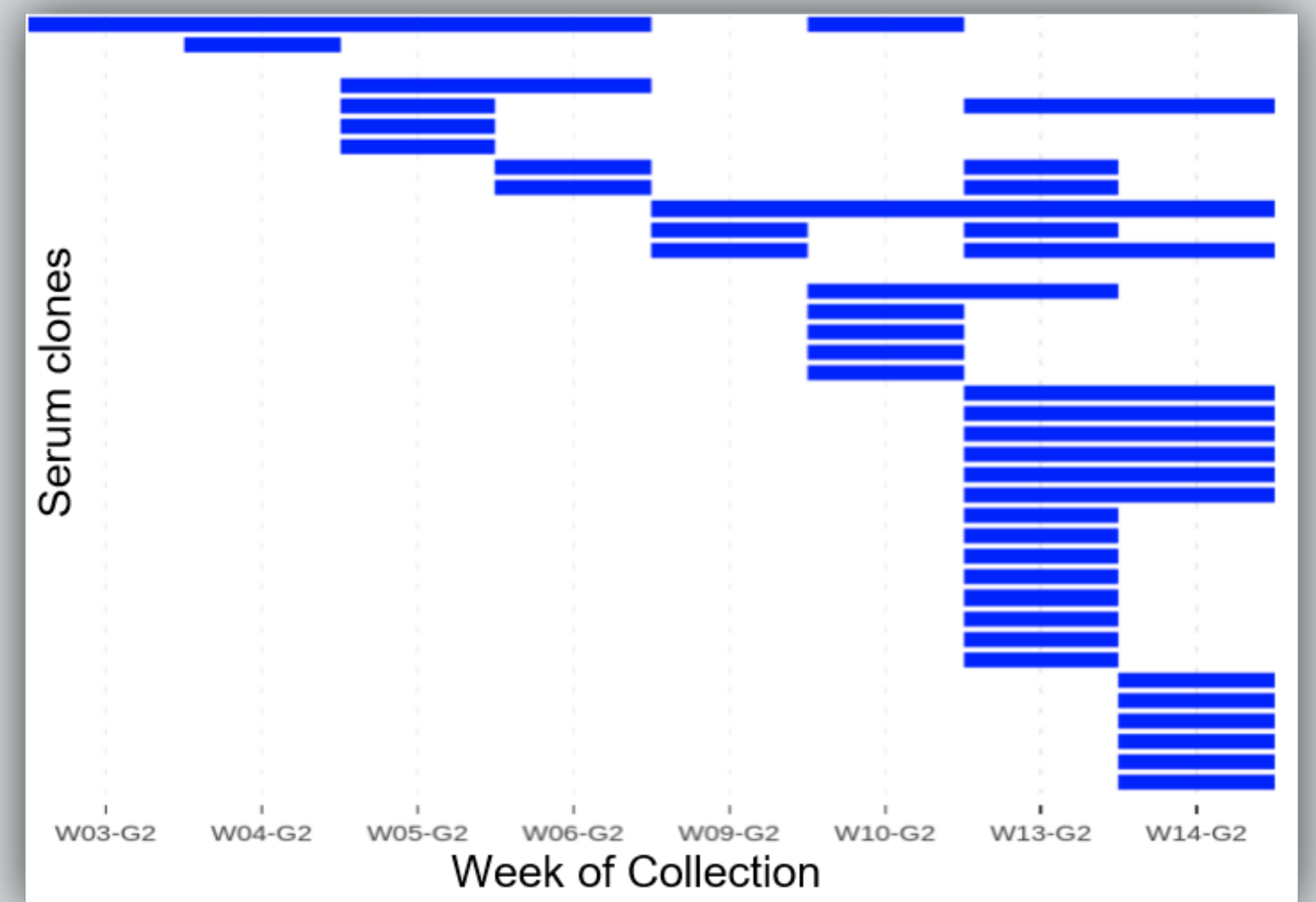
Llama repertoires favor a small set of germline V genes.



Sequence entropy ranges across CDR position.



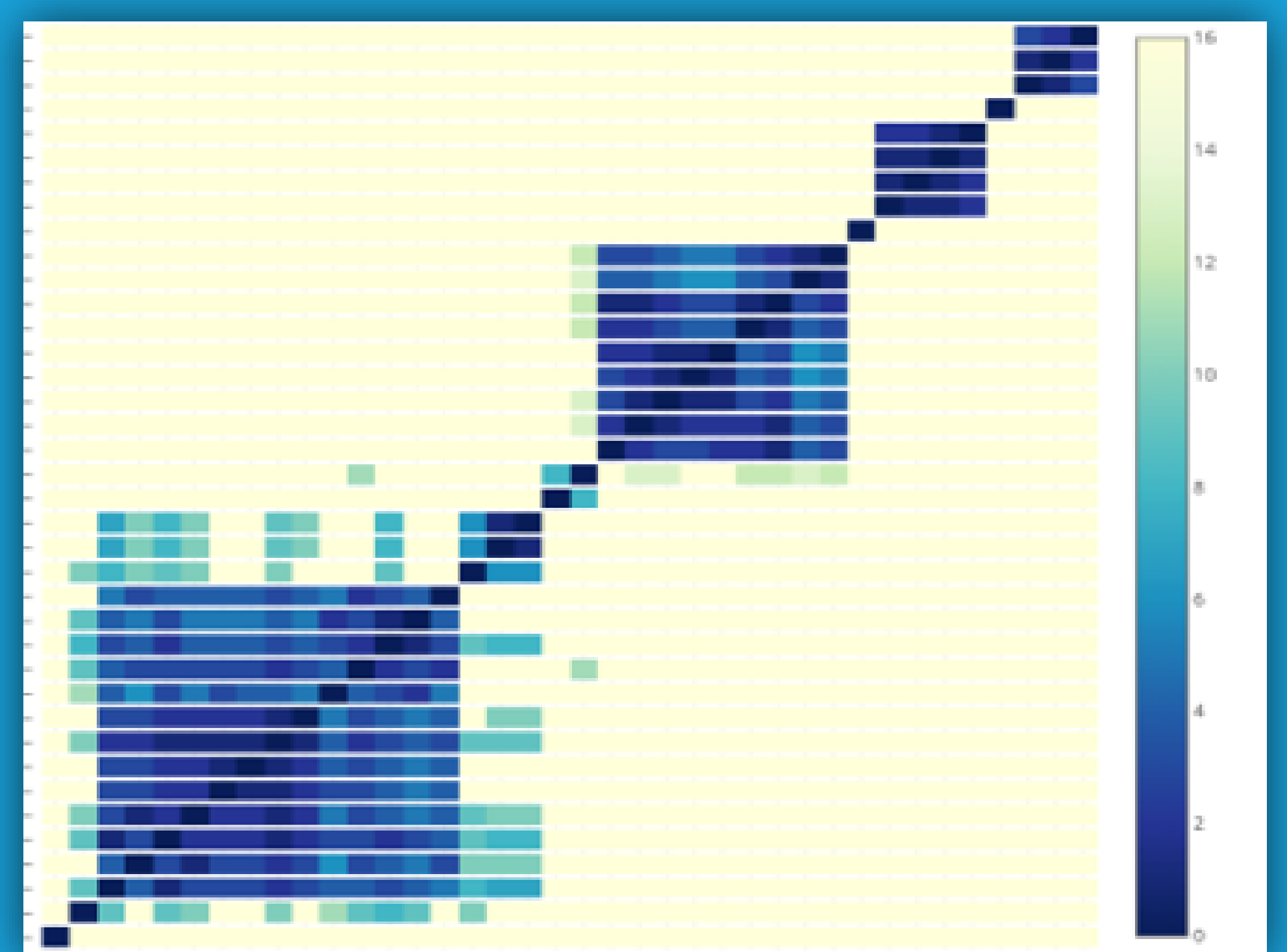
IgG3 (short hinge) sdAbs are more mutated than IgG2 (long hinge) sdAbs.



New clones appear throughout immunization.



Stabilizing mutations occur outside of CDRs.



Alicanto selects diverse sequence candidates.

Key Benefits of Alicanto:

1. Diverse sdAb hits
2. Fast, focused on sdAbs that matter
3. Full access to repertoire