Case Study #1

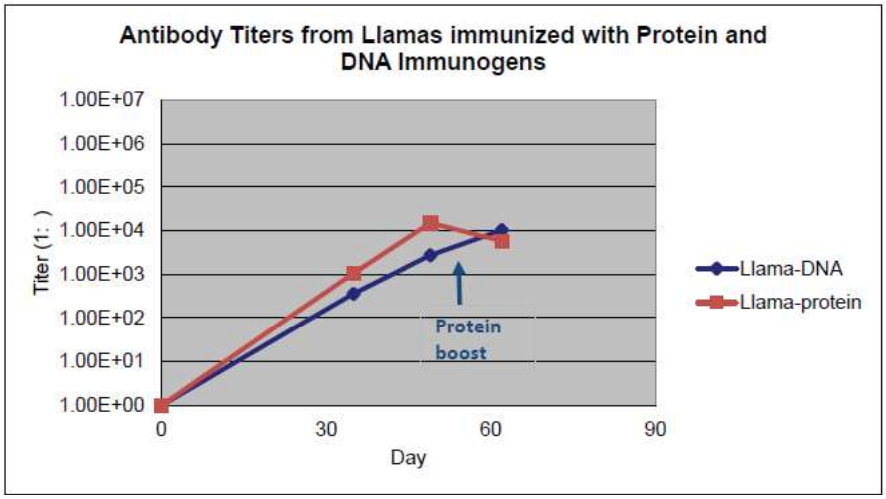
Genetic Immunization in Llamas

Goal: Generate antibodies to a transmembrane protein target for VHH discovery campaign

Problem: Antibodies generated against recombinant protein fragments have low affinity against native protein.

Materials Avail: Recombinant protein fragments (extracellular domain) and a DNA expression vector

Strategy: Llamas were immunized with either:
1) 5x Recombinant protein (SQ)
2) 4x DNA (Intradermal-tattoo) with final protein boost (SQ)
Both llamas were screened via ELISA against the recombinant protein.



Results:

- Both llamas generated antibodies specific to the recombinant extracellular domain.

- Epitope binning and FACS analysis (data not shown) confirmed increased coverage, specificity and affinity from antibodies derived from the DNA-immunized llama.

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