

## VACCINE SAFETY TESTING SERVICES

AVANZA's team has extensive experience performing a wide variety of in vivo toxicology studies that examine the effect of compounds on the immune system. We specialize in the safety assessment of vaccines using our AAALAC accredited Biosafety Level-2 (BSL-2) laboratory with an experienced in-life and post-life staff to determine safety, immune response, and biodistribution over a variety of species, routes of administration, and vaccine types.

### Vaccine Studies

- Biodistribution and Integration Studies
- General toxicology / Safety Studies
- Immunogenicity Studies
- In vivo Adjuvant Selection Studies
- Potency Studies
- Proof-of-Concept Studies

### Vaccine Types

- DNA Plasmid
- Live Attenuated
- Peptide
- Prime-Boost Strategies
- Recombinant Protein
- Recombinant Vector
- Virus-Like Particle

### Animal Species

- |              |                     |
|--------------|---------------------|
| ■ Mouse      | ■ Canine            |
| ■ Rat        | ■ Minipig           |
| ■ Guinea Pig | ■ Non-human Primate |
| ■ Rabbit     | ■ Pig / Swine       |

### Routes of Administration

- Dermal (patch)
- Intradermal (Biojector, Electroporation)
- Intramuscular (Biojector)
- Intranasal
- Intravesicular
- Subcutaneous
- Other methods

### Vaccine Experience

- Facility with BSL-2 Ratings
- In-life Team
- Necropsy Team
- Over 130 general vaccine toxicity studies: Ebola, HIV, dengue, plague, WNV, SARS, malaria, Botulin toxin, several cancers, etc.
- Over 40 Biodistribution Studies
- Biodistribution Necropsy (Sterilized Necropsy Techniques)
- Clinical Pathology Analyses
- Histopathology Evaluation

Contact us for more information on how AVANZA can assist with your preclinical vaccine development.