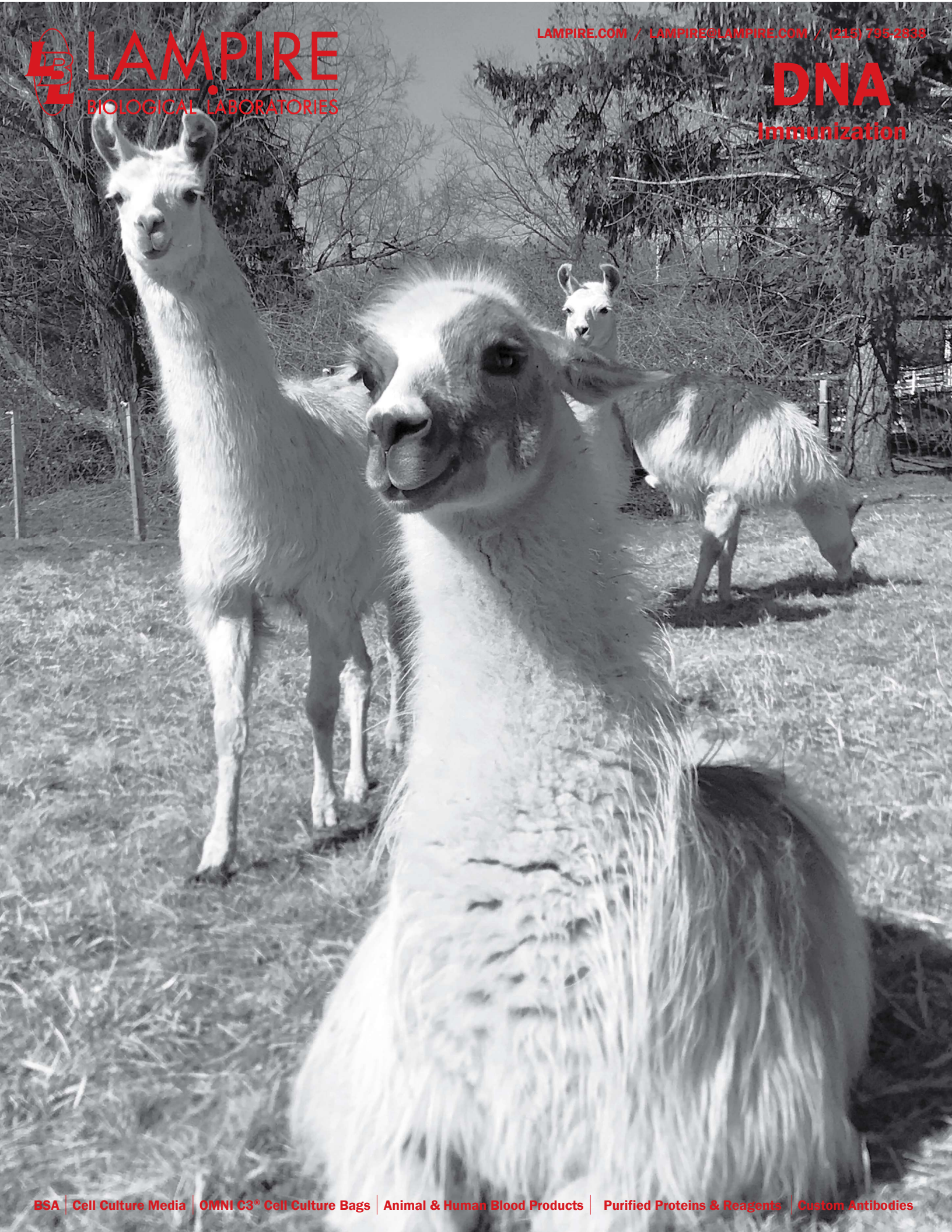

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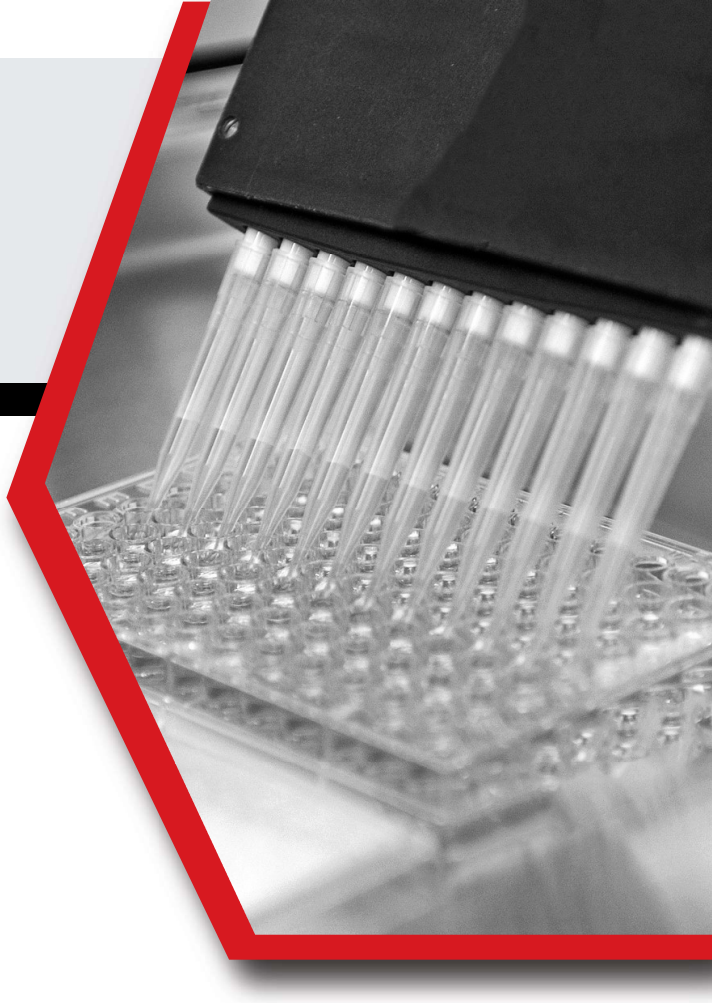
DNA Immunization

BSA | Cell Culture Media | OMNI C3® Cell Culture Bags | Animal & Human Blood Products | Purified Proteins & Reagents | Custom Antibodies

DNA

Immunization



Genetic immunization is an attractive strategy for antibody development in situations where proteins cannot be produced recombinantly (e.g. multipass transmembrane proteins)

Genetic Immunizations
- Immunize with plasmid encoding for antigen
- Host cells take-up plasmid and produce antigen
- Host generates antibody response to antigen
- Often combined with protein-based immunizations

DNA Tattoo Immunizations
- Deliver plasmid intradermally via tattooing
- Tattooing induces localized inflammation and antigen uptake

Benefits
- Cost effective: no expensive carrier molecules like gold particles
- No expensive equipment required
- Non-invasive

Antigen Design	• Client provides DNA expression vector
In vivo	• Immunizations via DNA Tattooing (1-4x) • Protein boost (recombinant protein, transfectred cells, Virus Like Proteins)
Screening	• ELISA (protein, transfected cells) • Flow cytometry
Deliverables (Options)	• Serum, purified antibody, PBMCs, B Splenocytes, RNA

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