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GENE THERAPY OVERVIEW

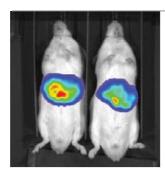
- Housing and breeding programs for transgenic lines
- Experience with administration of various client's test articles for multiple gene therapy methods e.g. CRISPR, AAV, Oligo, mRNA, RNAi, siRNA, ceDNA, antisense
- Proficient in multiple routes of administration of test materials for gene therapy
- Multiple tissue collections according to client requests
- Established and developed in-vitro assays to assess the efficiency of the gene therapy treatments e.g. ammonia, hEPO, FIX, FVIII, PHE, luciferase
- Evaluate test compound toxicity by clinical observations and laboratory test e.g. liver enzymes

ROUTES OF ADMINISTRATION

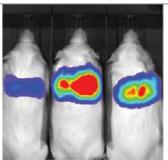
- Intravenous
- Hydrodynamic intravenous
- Subcutaneous
- Oral gavage
- Intramuscular
- Nebulization
- Intravitreal
- Intrathecal
- Intratracheal
- Intraarticular
- Intranasal
- Intracerebral ventricular

SUMMARY

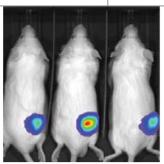
- Experience with multiple transgenic strains
- Proficient with multiple dose administration methods
- Established various in-vitro assays
- IVIS imaging capabilities



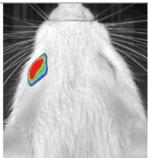
Luciferase via intravenous injection, targeting the liver



Luciferase via intratracheal administration, targeting the lungs



Luciferase via intramuscular injection



Luciferase via intravitreal injection