

Non-Clinical Services: PD Evaluation

We provide validated in vivo disease models and pharmacodynamic readouts for efficacy and MoA validation, supporting small molecules, biologics, and cell therapy programs. All platforms are AAALAC-accredited and GLP-referenced.

We have established **animal models and testing platforms across thirteen therapeutic areas**, providing comprehensive support for drug development. Among these, **HiLand has demonstrated particular strength in pharmacodynamic (PD) evaluation** for ophthalmic diseases, cell and gene therapies, vaccines, pediatrics, anti-infective agents, topical skin preparations, respiratory disorders, and gastrointestinal diseases.



Ophthalmic
Disease Models



Cardiovascular &
Cerebrovascular
Disease Models



Immune and
Inflammatory
Disease Models



Endocrine and
Metabolic
Disease Models



Respiratory
Disease Models



Nervous System
Disease Models



Models of
Digestive
Diseases



Tumor Models In
Vivo and In Vitro



Cell Therapy
Products



Gene Therapy
Products and
Vaccines



Pediatric Drugs
Evaluation
Models



Anti-Infection
Drugs and Fever



Topical
Preparations for
Skin

Highlights

1. Ophthalmic disease models
 - Glaucoma, cataract, ocular surface diseases, CNV, AMD, ocular tumors
2. Pediatric disease models
 - Anti-infective, antipyretic, anti-inflammatory immune, respiratory, gastro-intestinal, and other common pediatric diseases
3. Gastrointestinal System disease models
 - Peptic ulcer, reflux esophagitis, hepatitis, liver fibrosis
4. Neurobehavioral assessment
 - Neurobehavioral assessment (learning, memory disorders, behavior, motor functions)
5. Anti-tumor
 - Subcutaneous transplantation, orthotopic transplantation, peritoneal inoculation
6. Autoimmune disease models
 - Systemic lupus erythematosus, hypocellular models
7. Anti-glucocorticoid side effect
 - Hormone metabolism disorders, withdrawal reactions and neuroendocrine suppression models
8. Diabetes and complications
 - Multiple spontaneous models, experimental diabetes, DIO
9. Cardiovascular diseases
 - Hypertension, heart disease, cerebral ischemia, peripheral artery disease

10. Endocrine system diseases

- Hyperlipidemia, osteoporosis, hyperuricemia

11. Cardiovascular diseases

- Hypertension, heart disease, cerebral ischemia, peripheral artery disease

12. Anti-inflammation and immunity

- Various models of inflammation and pain, cellular immunity, humoral immunity





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