





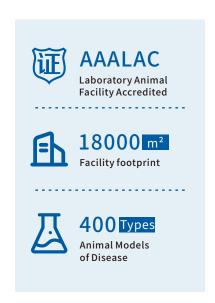




KCI BioTech(Suzhou) Inc.



KCI Biotech and its wholly-owned subsidiary, KMQ Biotech are CROs specializing in providing preclinical pharmacodynamics and durability evaluation services for pharmaceutical research and development. The company owns two AAALAC-accredited state-of-the-art laboratory animal facilities in Suzhou and Nantong, with a total area of more than 40,000m², which can meet the needs of various types of preclinical research. The company has a full range of laboratory animal platforms including mice, hamsters, guinea pigs, rabbits, cats, dogs, pigs, ferrets and nonhuman primates, an in vivo pharmacodynamic evaluation platform with 400+ models, an pathogenic microorganism services platform, and service platforms for pathology, toxicology, pharmacokinetics, cellular and molecular biology, and medical imaging, etc. The company has already cooperated with more than 1,000 famous domestic and international pharmaceutical companies, and completed more than 100 domestic and international projects. With a professional R&D team, rich experience in in vivo pharmacology and pharmacodynamics evaluation, and a professional spirit of integrity and excellence, KCI&KMQ will provide a full range of preclinical drug discovery and development services for global pharmaceutical companies and research institutions, and establish a professional and efficient drug discovery and evaluation system!



These services include:









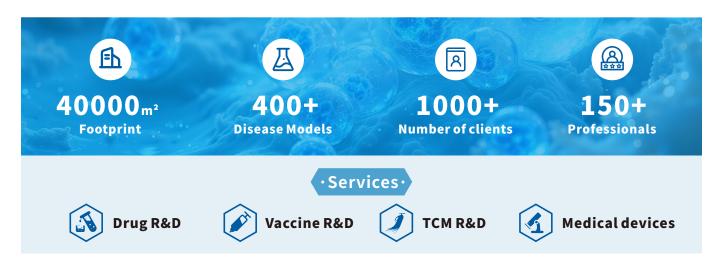


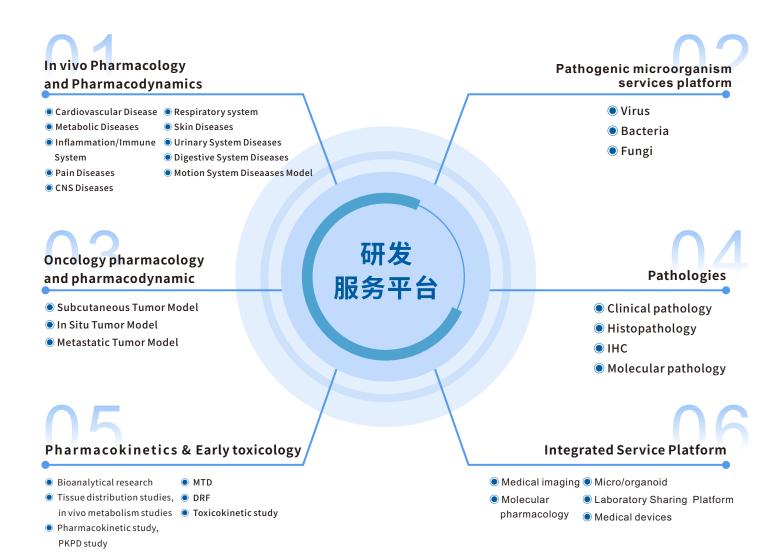












Full range of animal experimentation service capabilities









Guinea pigs

Hamsters

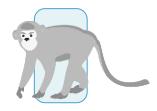
Cats







Rabbits



Non-human Primates



Dogs



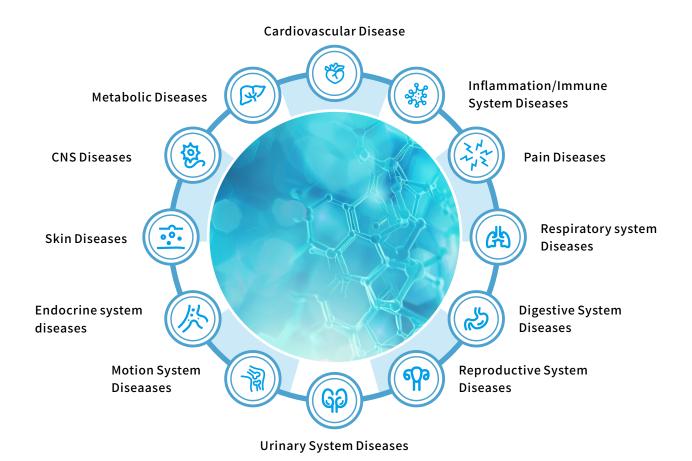
Pigs



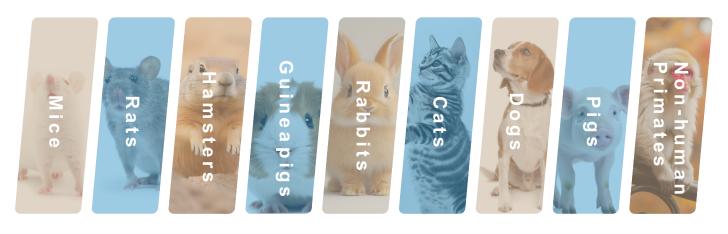
In vivo Pharmacology and Pharmacodynamics



KCI&KMQ has been deeply engaged in non-tumor in vivo pharmacology and pharmacodynamics research for more than ten years. With professional and solid technical staff, advanced experimental equipment and facilities, and a comprehensive database of multidisciplinary disease models, Kaseya-Komaki has built a complete set of in vivo pharmacology and pharmacodynamics evaluation system, which is capable of accurately analyzing the mechanism of action of the drug in vivo, pharmacology and pharmacodynamics and other key data from molecular, cellular and overall animal levels. Currently, we have served hundreds of well-known pharmaceutical companies and will continue to provide comprehensive, efficient and accurate services to our customers, helping pharmaceutical R&D to advance steadily.



Species of animals



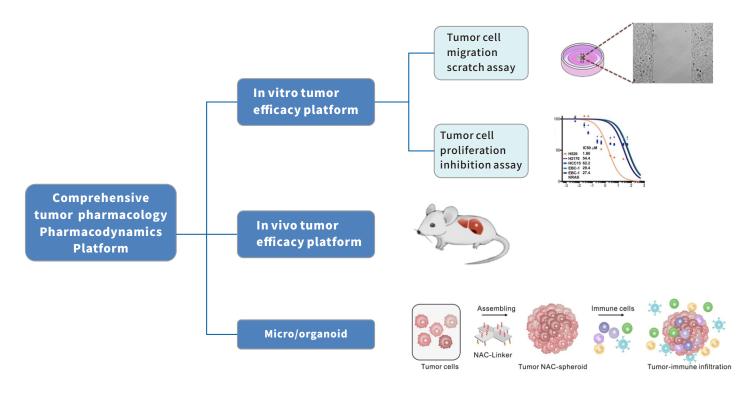
	Stroke	
	Acute myocardial infarction	
	Heart failure	
	Atherosclerosis	
	Coronary heart disease	
	Hypertension	
Cardiovascular	Pulmonary arterial hypertension	
Diseases	Deep-vein thrombosis	
	Arterial thrombosis	
	Peripheral vascular disease	
	Atrial fibrillation	
	Ventricular tachycardia	
	Diffuse intravascular coagulation	
	Pericarditis	
	Myocarditis	
	Obesity	
	Diabetes	
	Complications of diabetes	
Metabolic	Hyperlipidemia	
Diseases	NASH	
	Acute liver injury	
	Liver fibrosis/cirrhosis	
	Gout	
	Sarcopenia	
	Acute lung injury	
	Cough	
	Chronic obstructive pulmonary disease	
Respiratory	Idiopathic pulmonary fibrosis	
system Diseases	Acute/Chronic asthma	
	Silicosis	
	Nodular pulmonary disease	
	Bronchiectasis	
	Hyperthyroidism	
Endocrine	Hypothyroidism	
system	Thyroiditis	
Diseases	SHPT	
	Bulging eyes	
	5 5 .	

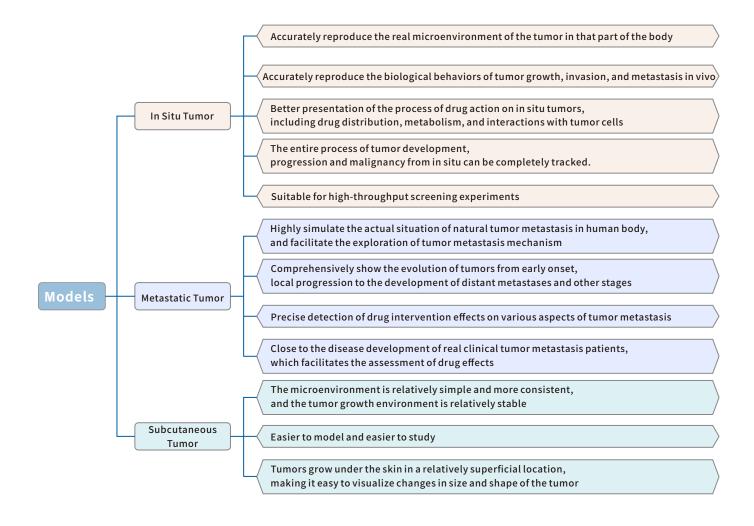
	Rheumatoid arthritis	
	Inflammatory bowel disease	
	Atopic dermatitis	
	Psoriasis	
Inflammatory	Systemic lupus erythematosus	
and Immunological	Septicemia	
Diseases	Systemic sclerosis	
	Skin scar	
	Skin burns	
	Healing of skin defects	
	Pressure ulcer	
	Acute kidney injury	
Renal/Urological Diseases	Subacute/chronic renal failure	
	Hypertensive nephropathy	
	Metabolic nephropathy	
	Immune-mediated nephropathy	
	Acute/Chronic cystitis	
	Pain disorder	
	Parkinson's disease	
CNS Diseases	Alzheimer's disease	
CNS Diseases	Autism	
	Huntington's disease	
	Cerebral palsy	
	Gastric ulcer	
	Atrophic gastritis	
	Primary biliary cholangitis	
Gastrointestinal	Primary sclerosing cholangitis	
Diseases	Acute pancreatitis	
	Chronic pancreatitis	
	Diarrhea	
	Vomit	
	Osteoarthritis	
MusculoskeletaL	Osteoporosis	
Diseases	Rheumatoid arthritis	
	Joint fibrosis	
Reproductive	Endometriosis	
system Diseases	Hysteromyoma	



Oncology pharmacology and pharmacodynamic







Subcut	Subcutaneous tumor model			
Genus	Туре			
	Human colon cancer cells			
	Human pancreatic cancer cells			
	Human breast cancer cells			
	Human macrophage lung cancer cell			
	Human lung cancer cells (lymph node metastasis)			
	Human non-small cell lung cancer cells			
	Human small cell lung cancer cells			
Human	Human lung adenocarcinoma cells			
	Human liver cancer cells			
	Human highly metastatic liver cancer cell Line			
	Human gastric cancer cells			
	Human brain astrocytoblastoma cells			
	Human glioblastoma cells			
	Human bladder cancer cells, or human bladder Migratory cell carcinoma			
	Mouse colon cancer cells			
Dodost	Mouse lung cancer cells			
Rodent	Mouse breast cancer cells			
	Mouse liver cancer cells			

In situ tumor model					
Genus	Туре	e Cell name Model type			
	Gastric cancer	NCI-N87-luci	Gastric cancer in situ and spontaneous metastasis		
	Breast cancer	MDA-MB-231-LUC; MCF-7	Breast cancer in situ and spontaneous metastasis		
Human	Liver cancer	MHCC97H-LUCI; SNU-739; SK-hep1	In situ and spontaneous metastasis of hepatocellular carcinoma		
	Brain glioma	U87 MG-LUC; U251-LUC	Glioma in situ		
	Pancreatic	PANC-1; MIAPaCa-2; CFPAC-1	Pancreatic cancer in situ		
Rodent	Breast cancer	4T1-LUC	Breast cancer in situ and spontaneous metastasis		
Rodent	Liver cancer	Hepa 1-6	Hepatocellular carcinoma in situ and spontaneous metastasis		

Metastatic tumor model					
Genus	Туре	Cell name	Model type		
	Lung	NCI-H446; HCC827;	Brain metastasis		
	cancer	NCI-H292	Liver metastasis		
	Colorectal	SW620	Brain metastasis		
Human	cancer	SW620 Liver metastasis			
	Prostate cancer	22RV1	Bone metastasis		
	Breast	MDA-MB-231-LUC			
	cancer	MDA-MD-231-LOC	Bone metastasis		
	Lung	LLC	Liver metastasis		
	cancer	LLC	Liver metastasis		
Rodent	Colorectal	CT26.WT; MC38	Brain metastasis		
Rodent	cancer	C120.W1, MC30	Liver metastasis		
	Breast	4T1-LUC	Lung metastasis		
	cancer	711-100	Bone metastasis		



Pathogenic microorganism services platform





Human vaccines and anti-infective drugs, veterinary vaccines and anti-infective drugs

- 1 In vitro anti-infective efficacy tests: antiviral effect-EC50/CC50 assay; MIC drug sensitivity test; FIC determination; biological properties.
- 1 In vivo immunogenicity tests for vaccines: neutralization test, hemagglutination inhibition test, cellular immunity, etc...
- Protective tests for animal attack: vaccines, antiviral drugs.











Types	Name	Sub type	Model Mice Rats Cotton guinea pig Pigs Cats Fer								
1,7,000	Hume	oub type			Rats			Pigs	Cats	Ferrets	Rabbits
	RSV	A2/9320/18537	Virus attack model			✓					
	HBV		AAV-HBV1.3 infection model	✓							
Virus	Influenza virus	H1N1/H3N2 B Victoria B Yamaga	Virus attack model	✓						✓	
VIIUS	HSV-2	MS	Reproductive Tract Infection Model	✓			*				
	VZV	Oka	Neuropathic pain\skin herpes		✓		*				
	FIPV	FCoV II	FIPV Model						✓		
	Rabbit papilloma skin lesion model	NA	Rabbit CRPV virus skin papilloma								✓
	PRRSV	High fever type	PRRSV Model					✓			
		Seattle 1945	Skin wound infection model					*			
	staphylococcus aureus	Scattle 1545	Sepsis model	✓							
		Seattle 1946	Sepsis model	✓							
	Enterobacter cloacae	Clinical strain	Thigh muscle infection model	✓							
Bacteria	Acinetobacter	Clinical strain	Vaginitis model		✓						
Bacterra	baumannii	Cumcatstram	Thigh muscle infection model	✓							
	Klebsiella pneumoniae	C122	Vaginitis model	✓							
	Pseudomonas		Vaginitis model	✓							
	aeruginosa	ATCC9027	Sepsis model	✓							
			Thigh muscle infection model	*							
			Pneumonia model		✓						
Fungi	Candida albicans	3147	Sepsis model	✓							
			Vaginitis model	✓							

	Bacterial / Fungal / Viral isolation and culture				
		In vitro antivir	al CC50 and EC50 tests		
		MIC	Micro broth dilution method		
		MIC	Paper Amplification		
			- Checkerboard method to determine antimicrobial capacity		
	In vitro antimicrobial sensitization		Growth Curve		
	Sensitization	Biological Characterization	Motility		
			Biofilm		
'n			Adhesion invasion		
		Evaluation of	Binding antibody Ig G and different subtype detection		
	疫苗免疫原性评价	humoralimmunity	Neutralization test\hemagglutination inhibition test		
	发田无役际任奸川	Cellular immunity evaluation	ELISOPT-IFN-γ\IL-2\IL-4\IL-6 assay		
		cettutal illimatity evaluation	Flow Test-CD4+\CD8+\IFN- γ +\TNF- α +\IL-2+\IL-4+\IL-6+ and other tests		
	Attack protection assay				
	Evaluation of therapeutic anti-infective drugs				

动物种属



















Pharmacokinetics&Early toxicology >>>>



ANIMAL STRAIN





Gavage, intraperitoneal injections, intravenous injections (tail vein, femoral vein, facial vein, posterior eye socket vein), intramuscular injections, myocardial injections, airway nebulization administration, skin application, nasal drip administration, and stereotactic brain injections.



SAMPLE COLLECTION

Tail vein, dorsal foot vein and femoral vein blood collection, orbital blood collection, cheek blood collection, cerebrospinal fluid collection, lacrimal fluid collection, lymphatic fluid collection, bile collection, urine collection, fecal collection and all other tissue collection.



BIOLOGICAL MATRIX

Whole blood, plasma, serum, urine, feces, tissues of all parts, ocular tissues (sclera, iris, cornea, aqueous humor, ciliary body, choroid, retina, etc.), cerebrospinal fluid, brain, nerves and ganglia of all parts, lymph nodes, and bone marrow.



In Vivo Pharmacokinetic ____



Type of surgaery

Intubation of jugular veins, carotid arteries, portal veins, bile ducts, duodenum, and lymphatics

Type of experiment

- 01. Rapid drug screening, simultaneous administration of multiple drugs detection
- 02. PK test of drugs in different dosage forms/salt forms/crystal forms
- ♦ 03. Single-dose, single-administration PK test
- 04. Gradient dose (low, medium, high) single/multiple administration PK test

- 05. Gradient dose (low, medium, high) single/multiple administration tissue distribution test
- 06. Gradient dose (low, medium, high) single/multiple administration excretion test
- 07. Conventional efficacy trials: combining PK data results for specific models
- ◆ 08. Customized Experimental Solutions

(可提供IND申报整体策略)





Type of surgaery

Small molecules, large molecules (peptides, ADCA, proteins, XDC, PROTAC), liposomes, nucleic acids etc.

Sample type

Whole blood, plasma, serum, urine, feces, tissues from various sites, ocular tissues, cerebrospinal fluid, brain, nerves and ganglia from various sites, lymph nodes, bone marrow, clinical samples, etc.

Type of test

LC/MS/MS method development/validation and sample analysis, immunological assay method development/validation and sample analysis, etc.







Toxicokinetics(7, 14, 28 Days)



Single/multiple dose toxicity studies



Acute/long-term toxicity studies



Local toxicity studies (sensitization, irritation studies)



MTD



Histopathology/Clinical Pathology (serum chemistry, hematology and coagulation)

Equipment







Flow cytometer

LC-MS AB Sciex 5500



Blood Coagulation Analyzer



Biochemical analyzer



Blood analyzer

Testing platforms:

ELISA、FACS Analysis、LC/MS/MS





Others _ Formulation analysis, biomarker testing, etc.







Histopathology

Experiment	Content	Description
	Decalcification of bone tissue	Slow stripping, fast stripping
	Paraffin Embedding	Fixed Sample
Pathology Sections	0CT Embedding	Fresh/fixed sample
	Paraffin sectioning	Fixed Sample
	Frozen section	Fresh/fixed sample
	HE staining	
Pathology Staining	Pathology Staining	Masson Trichrome、Oil red 0、Sirius Red、PAS、IHC、Multiplex Immunofluorescent、Masson-Fontana、Golgi stain
	TUNEL apoptosis assay	Bright Field
	Full Slice Scanning (Bright Field)-20X/40X	
Pathological imaging	Immunofluorescence Full Section Scan-20X	Single and Multi Label
0.0	Morphologic Description	



Clinical pathology

Experiment	Content	Description
临	Biochemical Analysis	Lipids, lipoprotein metabolism, cardiovascular classes, liver function classes, renal function classes, myocardial function and myocardial enzyme profiles, glucose metabolism classes, gastric function, pancreatic function classes, rheumatologic markers infection markers, metabolic classes, specific proteins (D-Dimer, FDP, IgE, Ferritin, TRF), ionic classes (CO2, Ca, Mg, P, Fe)
临 床 病 理	Hematology Analysis	CBC, DIFF, RET (reticulocyte measurable)
	Coagulation Analysis	$Prothrombin\ time, activated\ partial\ thrombop last in\ time, fibrinogen, prothrombin\ time$
	Urinalysis	Color, appearance, pH, glucose, bilirubin, ketone bodies, specific gravity, protein, occult blood, urobilinogen, nitrite and leukocytes, vitamin C



IHC

IHC validated targets (>200)

ki67	HER2	NK1	LGMN
ED1/CD68	FAK	APP	F4/80
CD16/32	p-FAK	MAP2	Collagen I
CD3	NF2	Neun	MPO
CD86	HER3	GFAP	b-arrestin1
CD206	p-HER3	Stat3	Insulin
CD25	AxI	p-Stat3	p-AKT
CD31	ROS1	Brud	HER4
CD34	p-ERK	b-Catenin	MBP
CD45	ERK	E-Cadherin	ALDH2
CD8	с-Мус	b-Cadherin	p-Met
ER	n-Myc	IGF-R	YAP1
HGF	HER4	Mcl-1	p-AKT
TUNEL	SPARC	4-NEH	p-S6
a-actin	Caspase3	P53	P21
TGF-a	IL10	Collagen IV	CTGF
PI3K	p-PI3K	PD-1	PD-L1



Cellular Molecular Biology Platform >>>>

Services	Sample types	Testing technology	Applications
PCR&qPCR Assay	Tissuecell culture	 Routine PCR RT-PCR Absolute Quantitative PCR Relative Quantitative PCR 	 RNA/DNA gel electrophoresis, gene expression analysis AAV virus, influenza virus, etc. viral titer assay (qPCR method) Method development and validation
Elisa Assay	 Tissue Serum, plasma、 Alveolarlavagefluid BALF, cerebrospinal fluid CSF cell culture 	AbsFITRFChemiluminescence	 Molecular biology: enzyme kinetic analysis, nucleic acid/protein quantification, detection of reporter genes Pharmacokinetic direction: cell proliferation, cytotoxicity and apoptosis studies. Aspects of cell signaling pathways: kinase, NFkB, CAMP, Ca2+ assays Microbiology: Bacterial endotoxin (LPS) detection
Western Blot Assay	TissueCellsSerum, plasma	WB	 Protein Expression Analysis Phosphorylated protein expression analysis Customized Testing
Flow Cytometry	 Blood samples Tissue cell culture Fluids Other special samples 	• Flow Cytometry	 Treg, Th cell secreted cytokine assay Apoptosis, cell cycle and proliferation TBNK cell fractionation, other cell typing, e.g., macrophages, DC cells Flow multifactor assays (CBA analysis) Phosphorylated protein (phos-Flow) analysis
Cell Construction	Cell line	NA	Cell line construction and screening, cell transfection, etc.





Large\Small animals MRI

Large\Small animals CT

Large\Small animals B-ultrasound

Small Animal Live Imaging System





Micro/organoio

Medical devices







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