KCI BIOTECH (SUZHOU) INC.

凯斯艾生物科技（苏州）有限公司

Provide comprehensive and innovative pre clinical drug efficacy and pharmacodynamics research service platform

提供综合性和创新性临床前药效及成药性研究服务平台

www.kcibiotech.com

About us
企业概览

KCI Biotech (SUZHOU) Inc. (KCI) and Jiangsu KMQ biotech Inc. (KMQ) which is a wholly-owned subsidiary of KCI are preclinical Contract Research Organization (CRO) providing specialty preclinical pharmacology services in cardiovascular diseases, immune diseases, inflammatory diseases, metabolic diseases, urinary diseases, neuron diseases and oncology by using small (mice, rats, etc.) and large (non human primates, pigs, dogs, rabbits, guinea pig etc.) animal disease models. The core competency of KCI&KMQ stems from our pioneering work and expertise in developing and running specialized animal disease models to test drug candidates and medical devices for their pharmacological effects and biocompatible. We also conduct adjacency studies in PK/PD, preliminary toxicology, medical image, translational medicine and pathology.

凯斯艾生物科技（苏州）有限公司（KCI）及其旗下的全资子公司江苏珂玛麒生物科技有限公司（KMQ）是一家为医药研发领域提供临床前药效及成药性评价技术服务的CRO公司。致力于建立小动物（小鼠，大鼠）、大动物（非人灵长类动物，猪，犬，兔，豚鼠等）综合性临床前药效及成药性评价平台。在心血管疾病、免疫性疾病、炎症性疾病、代谢性疾病、泌尿系统疾病，神经疾病和肿瘤疾病等领域提供专业的临床前药理药效学评价服务。KCI与KMQ的核心竞争力来源于我们的创新和专业开发以及运行专项的疾病动物模型，以测试候选药物和医疗器械的药理作用和生物相关性。我们还进行PK/PD，早期非GLP毒理学，医学影像学，转化医学和病理学的研究服务。

KCI locates in Suzhou industry park. We have 7200sq.ft. of SPF animal facility for about 7000 mice and 5000 rats studies at same time; 5400sq.ft. of experimental laboratories for pathology, cell biology, molecular biology, formulation and other functional laboratories. KMQ, our large animal facility locates in Haimen (Linjiang), is about 50,000sq.ft. for guinea pigs, rabbits, dogs, pigs and NHP studies at same time; 22000sq.ft. of experimental laboratories for image facility including MRI, CT, X-ray, B-Ultrasound, operation rooms, cell biology, molecular biology, formulation and other functional laboratories.

凯斯艾位于苏州工业园区金鸡湖畔纳米城内，办公、实验面积1800㎡，其中大、小鼠SPF级屏障系统800㎡，功能性实验室600㎡，可同时开展7000只小鼠、5000只大鼠药理、药效学实验。同时旗下子公司珂玛麒拥有7600㎡的大动物实验基地（坐落在江苏海门临江生物医药园）。该实验基地拥有5000㎡的动物房，可同时开展豚鼠，兔，犬，猪以及实验非人灵长类动物的不同体内药效学实验，2000㎡的功能实验室设有MRI，CT，X-线，B-超实验室，动物手术室和其它功能实验室。

What We Are Focusing
我们关注

Biomedicine

- Cardiovascular system
- Metabolic system
- Respiratory system
- Immune system
- Urinary system
- CNS
- Oncology

Animal Disease Models

- Cardiovascular disease models
- Metabolic disease models
- Respiratory disease models
- Immune disease & inflammation disease models
- Urinary disease models
- CNS disease models
- Tumor models

Pathology

- Pharmacology
- Toxicology
- Oncology
- Clinical pathology
- Digital pathology

Translational Medicine

- Imaging medicine
- Imaging and translational medicine
- Molecular pathology
- Pre clinical therapeutic evaluation for stem cells
- Non GLP toxicology
- PK/PD

基础生物医学研究

- 心血管系统
- 代谢系统
- 呼吸系统
- 免疫系统
- 泌尿系统
- 神经系统
- 肿瘤学

动物疾病模型应用

- 心血管系统疾病模型
- 代谢系统疾病模型
- 呼吸系统疾病模型
- 免疫及炎症疾病模型
- 泌尿系统疾病模型
- 神经系统疾病模型
- 肿瘤模型

病理学服务

- 药效病理
- 毒理病理
- 肿瘤病理
- 医疗病理
- 数字病理

转化医学平台

- 疾病影像医学
- 影像与转化医学
- 分子病理学
- 干细胞临床前疗效评价平台
- 非GLP毒理学
- 药代、药动学

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The core values of the enterprise
核心价值观

CARDIOVASCULAR DISEASE MODELS
心血管疾病模型

Stroke models

- Ischemic stroke: MCAO models on rodents and NHP
- Hemorrhagic stroke: ICH models on rodents and NHP

脑卒中模型

- 缺血性脑梗死：MCAO模型：啮齿动物、非人灵长类动物
- 出血性脑卒中：ICH模型：啮齿动物、非人灵长类动物

Acute myocardial infarction models

- Ischemia reperfusion models on rodents, rabbit, pig, dog, and NHP
- Permanent ischemia models on rodents, rabbit, pig, dog, and NHP

急性心梗模型

- 缺血再灌注模型：啮齿动物、兔、猪、狗、非人灵长类动物
- 永久性缺血模型：啮齿动物、兔、猪、狗、非人灵长类动物

Heart failure models

- Left heart failure models on rodents, rabbit, dog and NHP
- Right heart failure models on rodents, rabbit, dog and NHP

心衰模型

- 左心衰竭模型：啮齿动物、兔、狗、非人灵长类动物
- 右心衰竭模型：啮齿动物、兔、狗、非人灵长类动物

Atherosclerosis models

- Atherosclerosis model on ApoE$^{-/-}$ mice
- Atherosclerosis model on rabbit
- Coronary artery disease model on rabbit

动脉硬化模型

- 动脉硬化模型：ApoE$^{-/-}$小鼠
- 动脉硬化模型：兔
- 冠心病模型：兔

Pulmonary arterial hypertension models

- MCT induced PAH model on rodents
- Hypoxia induced PAH model on rodents

肺动脉高压模型

- MCT诱导的PAH模型：啮齿动物
- 低氧诱导的PAH模型：啮齿动物

Other vascular disease models

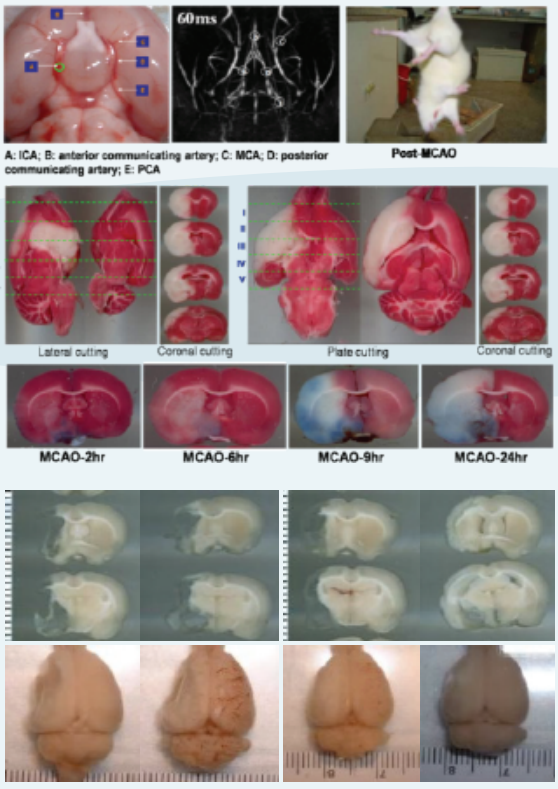
- PAD models on rodents, rabbit, dog, NHP
- Abdominal aortic aneurysm on rodents
- Artery stenosis models on rodents, rabbit, NHP
- Thrombosis models on rabbit and NHP

其他血管疾病模型

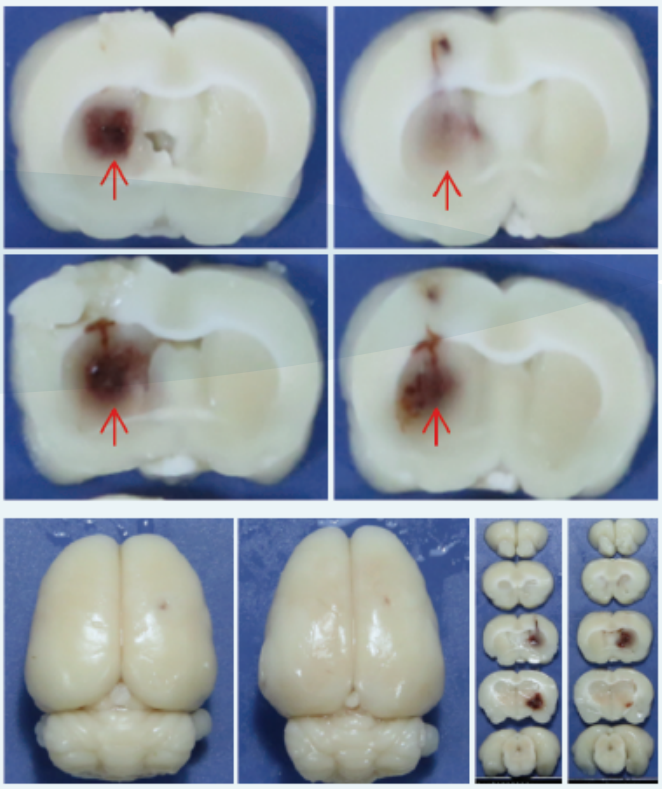
- PAD模型：啮齿动物、兔、狗、非人灵长类动物
- 动脉瘤模型：啮齿动物
- 动脉狭窄模型：啮齿动物、兔、非人灵长类动物
- 血栓症模型：兔、非人灵长类动物

Stroke Models
脑卒中模型

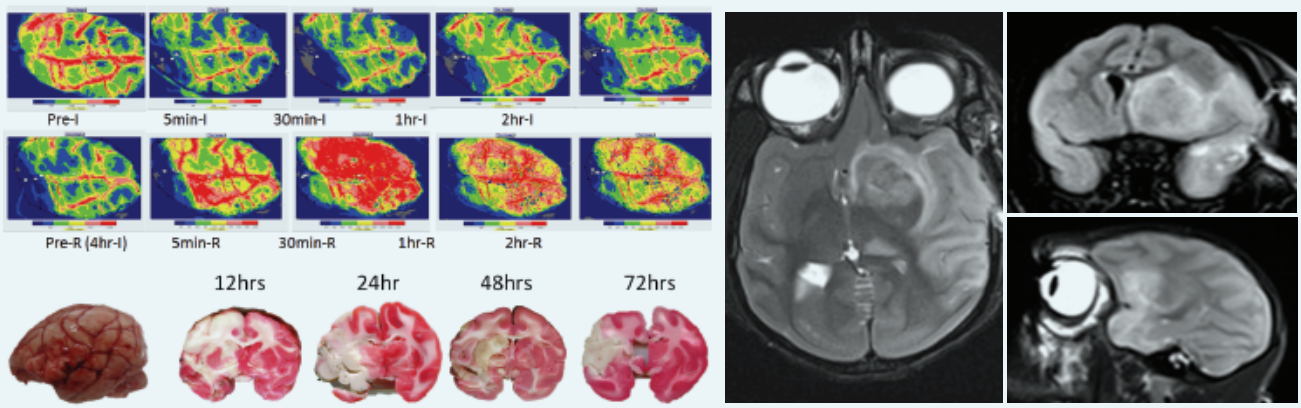
Rat MCAO model
大鼠缺血性脑卒中模型



Rat ICH model
大鼠出血性脑卒中模型

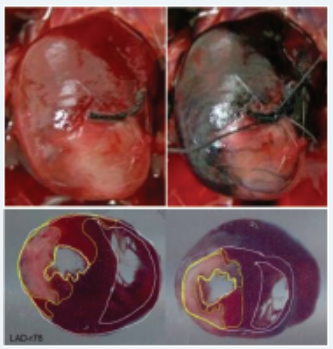


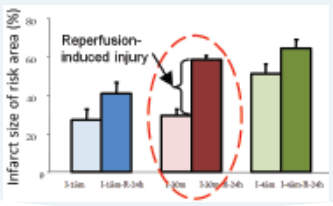
NHP stroke model
非人灵长类动物脑卒中模型



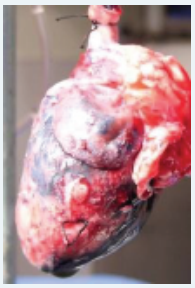
Acute Myocardial Infarction Models
急性心梗模型

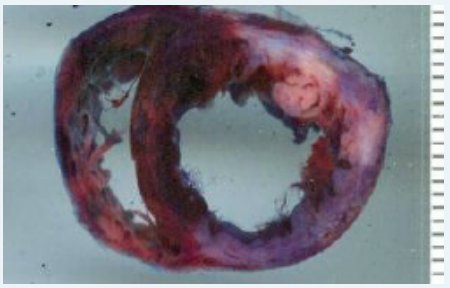
Rat AMI model
大鼠急性心梗模型

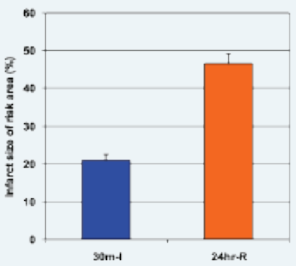




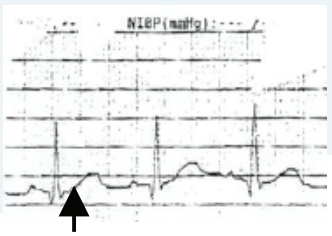
Rabbit AMI model
兔急性心梗模型



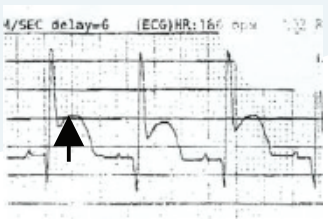




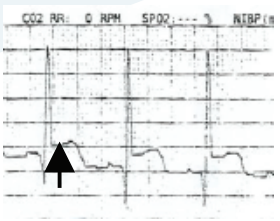
normal



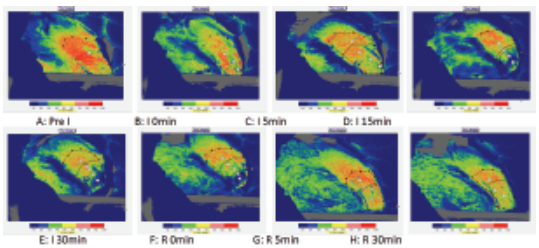
ischemia

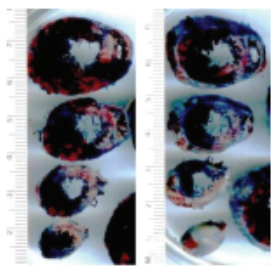


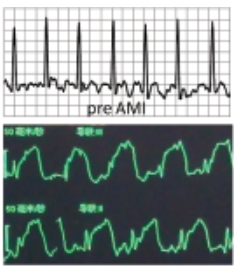
reperfusion



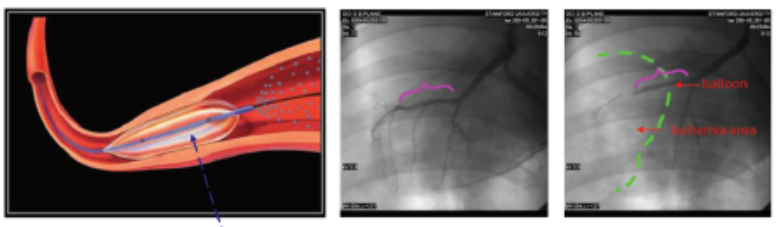
NHP AMI model
非人灵长类动物急性心梗模型



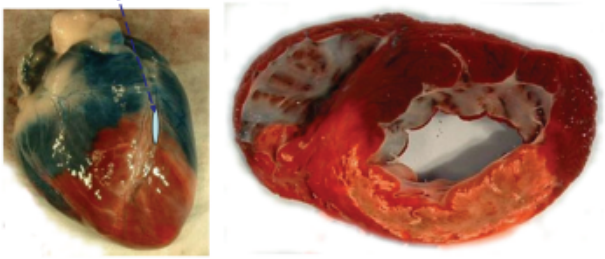




Pig AMI model
猪急性心梗模型

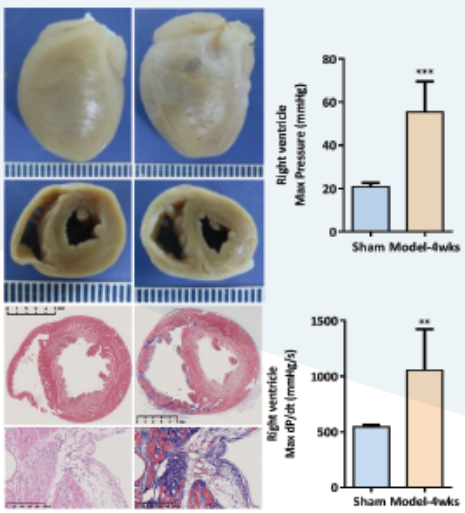


Ischemia time: 30min, 45min, or 60min, reperfusion time: 5days.

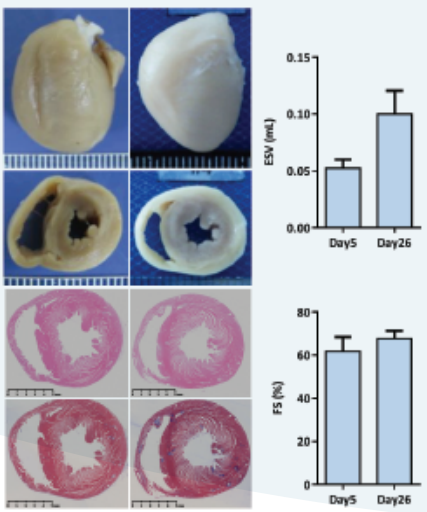


Heart Failure Models
心衰模型

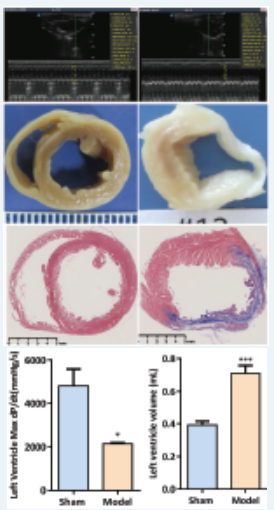
Rat pulmonary artery banding model
大鼠肺动脉主干缩窄模型



Rat aorta banding model
大鼠升主动脉缩窄模型



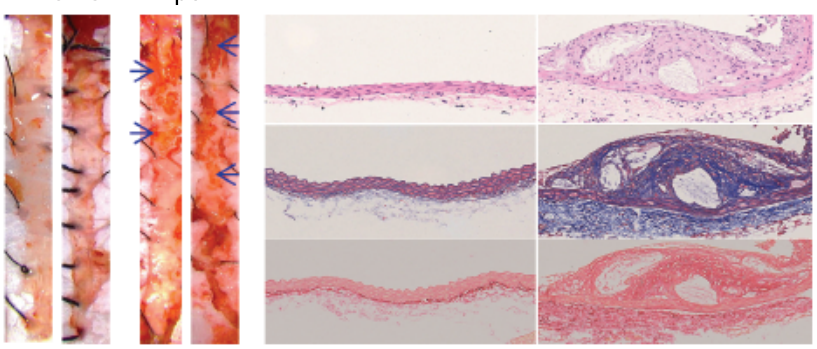
Rat AMI induced failure model
大鼠急性心梗诱导的心衰模型



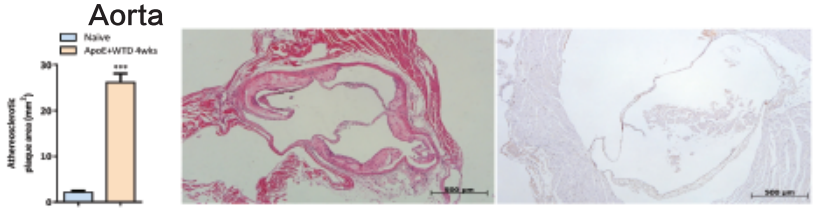
Atherosclerosis Models
动脉粥样硬化模型

Mouse atherosclerosis model
小鼠动脉硬化模型

Naïve ApoE$^{-/-}$

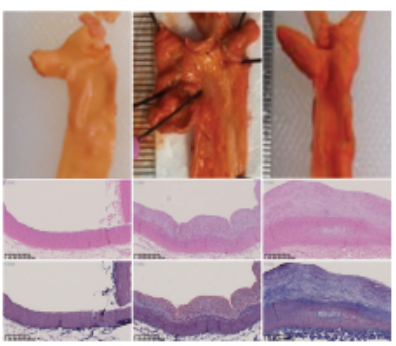


Aorta

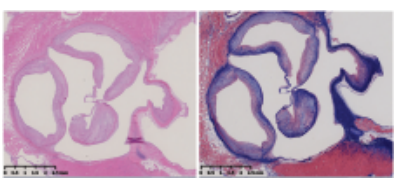


Aortic valve

Rabbit atherosclerosis model
兔动脉硬化模型



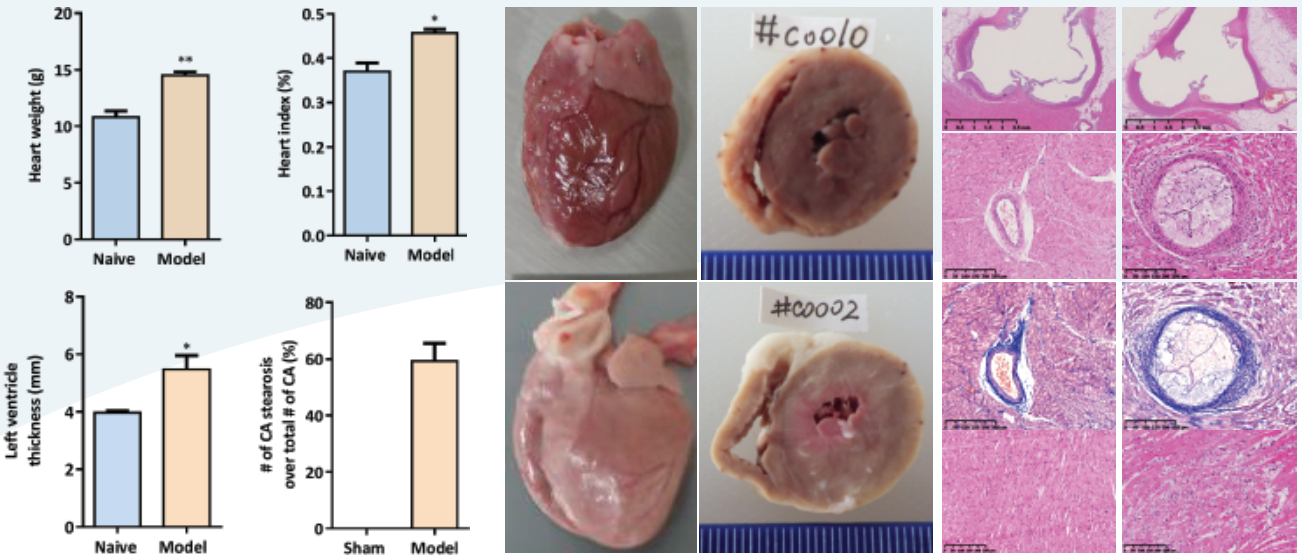
Aorta



Aortic valve

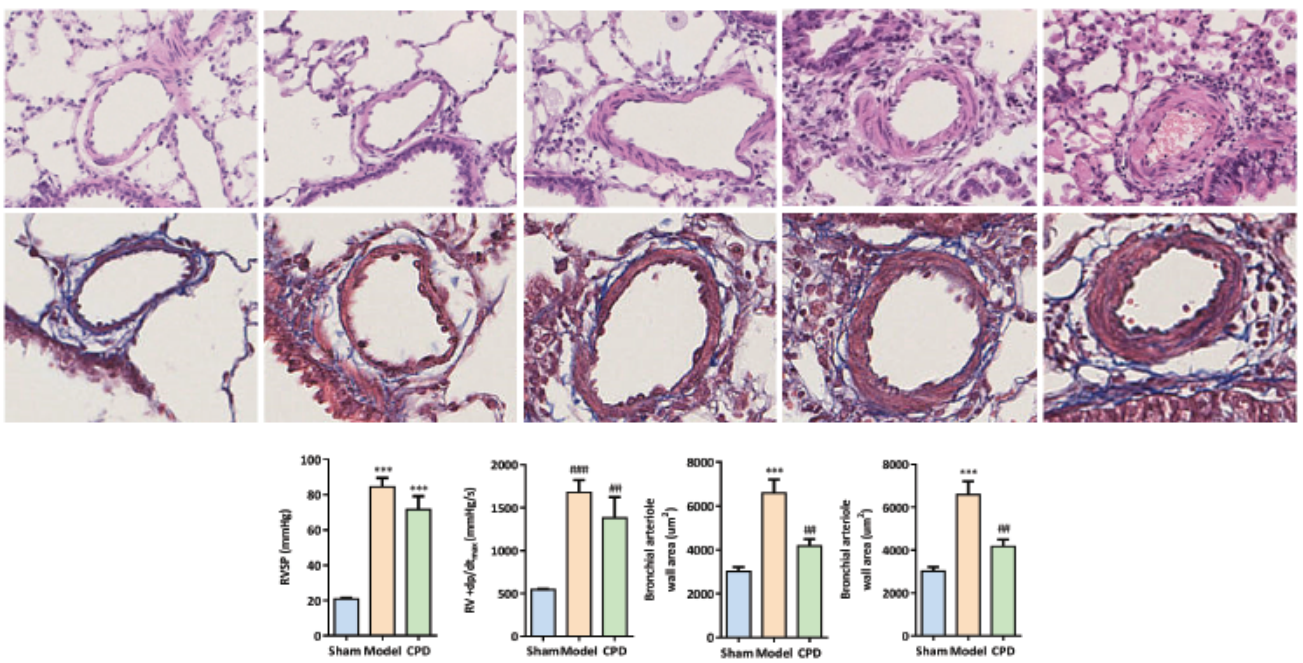
Coronary Heart Disease Models
冠心病模型

Rabbit coronary artery disease model
兔冠状动脉疾病模型



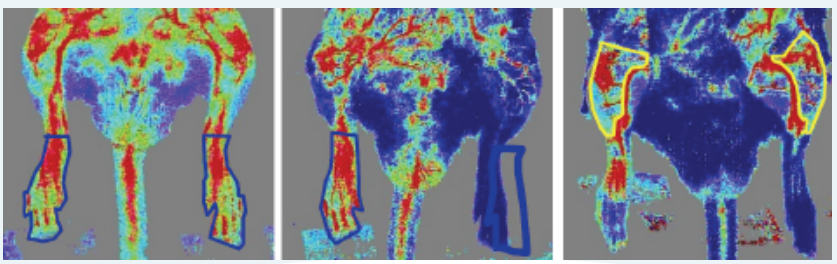
Pulmonary Arterial Hypertension Models
肺动脉高压模型

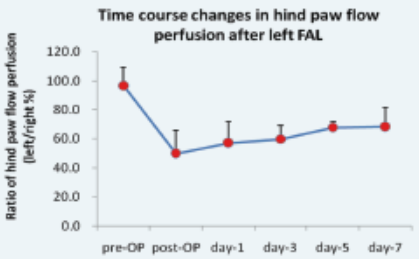
Rat PAH model
大鼠肺动脉高压模型



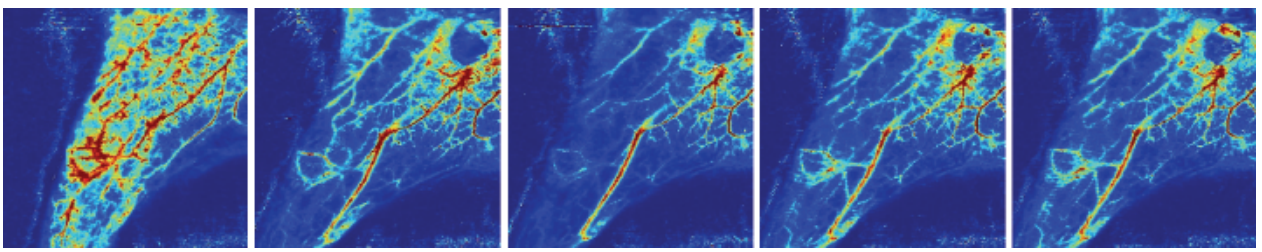
Other Vascular Disease Models
其他血管疾病模型

Rat PAD model
大鼠外周血管炎模型

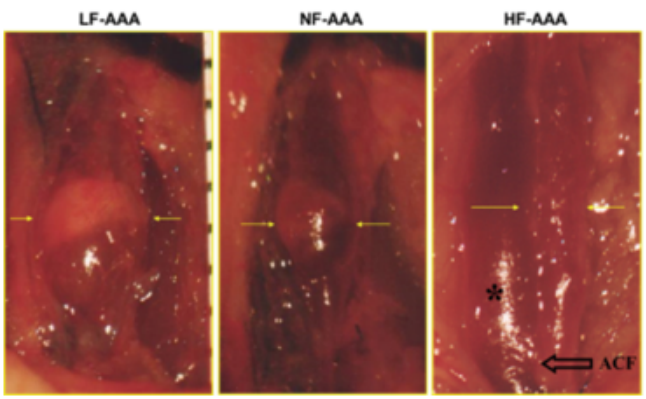




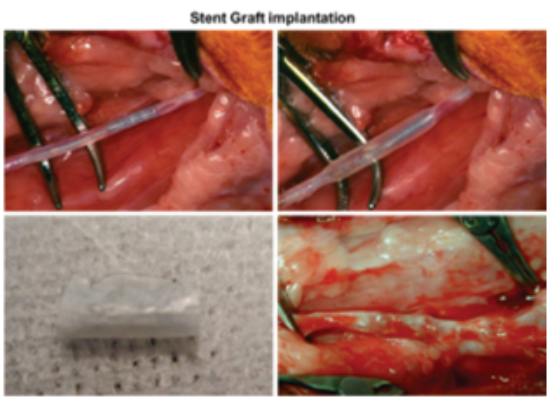
Rabbit Ischemia–reperfusion model
兔缺血再灌注模型



Mouse AAA model
小鼠动脉瘤模型



Rabbit vessel stent
兔血管支架试验



METABOLIC DISEASE MODELS
代谢性疾病模型

Obesity models

- High fat diet (HFD)–induced obesity mice (DIO mice)
- ob/ob mice, db/db mice
- HFD induced DIO Rats
- HFD induced Non human primate obesity (DIO NHP)

肥胖模型

- DIO小鼠
- ob/ob小鼠，db/db小鼠
- DIO大鼠
- DIO非人灵长类动物

Diabetes models

- DIO mice with diabetes
- ob/ob, db/db Mice with diabetes
- HFD–induced DIO NHP with diabetes

糖尿病模型

- DIO小鼠伴有糖尿病
- ob/ob小鼠，db/db小鼠
- DIO非人灵长类动物伴有糖尿病

Diabetic complication models

- Diabetic nephropathy in db/db mice, DIO mice
- Peripheral vascular disease (PVD) in db/db mice, DIO mice, rats
- Diabetic muscle amyotrophy (myopathy) in db/db mice, DIO mice, NHP

糖尿病并发症模型

- 肾病模型： db/db小鼠、DIO小鼠
- 外周血管炎模型： db/db小鼠、DIO小鼠、DIO大鼠
- 糖尿病肌肉萎缩模型： db/db小鼠、DIO小鼠、 非人灵长类动物

Dyslipidemia models

- High fat diet/ high cholesterol/ high fructose diet models in rodents, guinea pig, hamster, rabbits, dogs and NHP

血脂代谢异常模型

- 高脂/高胆固醇/高果糖模型：啮齿动物、豚鼠、仓鼠、兔，犬和非人灵长类动物

NASH MODELS
非酒精性脂肪性肝炎模型

Rodent models

- STZ-HFD models: mice and rats
- STZ-HFD-CHOL models: mice and rats
- STZ-DEN-HFD-CHOL models: mice and rats
- MCD models : mice
- CDAA models: mice
- db/db mice + MCD
- ob/ob mice + MCD
- db/db mice + CDAA
- ob/ob mice + CDAA
- DIO+CCl4 models: mice and rats
- HFD+CCl4 models: mice and rats
- HFD-CHOL models: mice and rats
- DEN-HFD-CHOL models: mice and rats

啮齿类模型

- STZ-高脂模型：小鼠和大鼠
- STZ-高脂-高胆固醇模型：小鼠和大鼠
- STZ-DEN高脂-高胆固醇模型：小鼠和大鼠
- MCD模型：小鼠
- CDAA模型：小鼠
- db/db小鼠 + MCD模型
- ob/ob小鼠 + MCD模型
- db/db小鼠 + CDAA模型
- ob/ob小鼠 + CDAA模型
- DIO+CCl4模型：小鼠和大鼠
- HFD+CCl4模型：小鼠和大鼠
- HFD-CHOL模型：小鼠和大鼠
- DEN-HFD-CHOL模型：小鼠和大鼠

Rabbit model

- HFD+CHOL model

兔模型

- 高脂-高胆固醇模型

Dog model

- HFD+CHOL model

犬模型

- 高脂-高胆固醇模型

NHP model

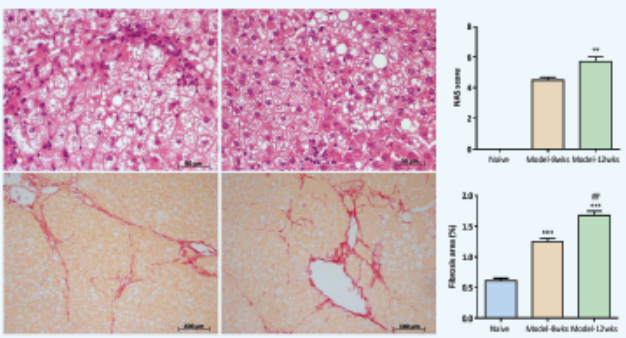
- HFD+CHOL model

非人灵长类动物模型

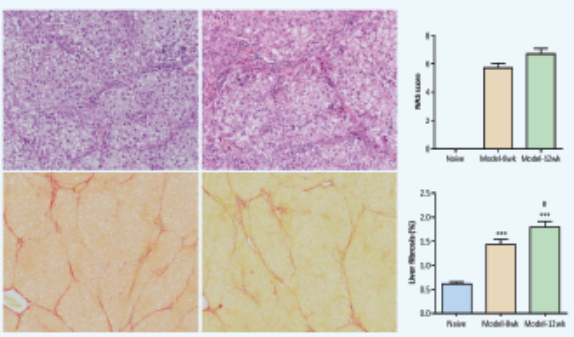
- 高脂-高胆固醇模型

Rat Models
大鼠模型

HFD-CHOL model
高脂高胆固醇模型

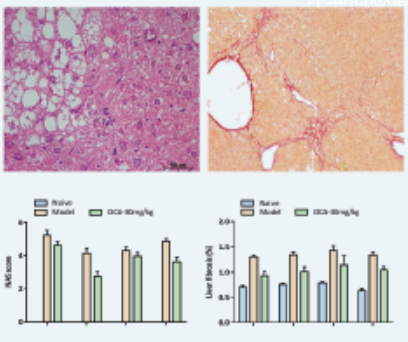


DEN-HFD-CHOL model
DEN-高脂高胆固醇模型

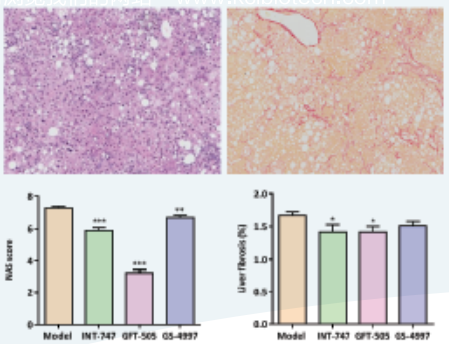


Mouse Models
小鼠模型

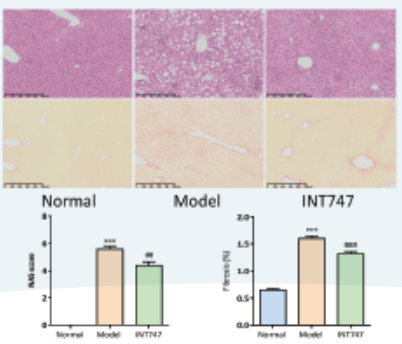
STZ-HFD model
STZ-高脂模型



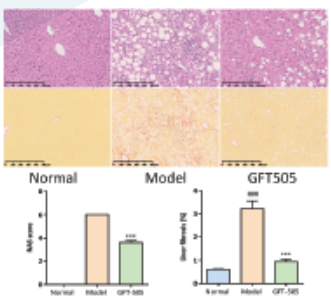
STZ-DEN-HFD-CHOL model
STZ-DEN-高脂高胆固醇模型



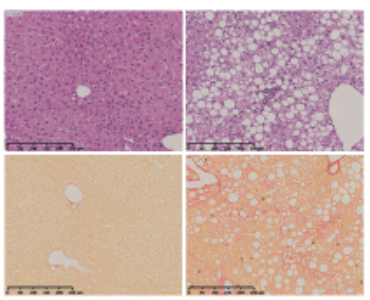
MCD model
MCD模型



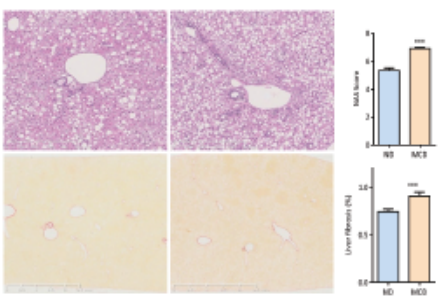
CDAA model
CDAA模型



db/db mice + MCD model
db/db小鼠MCD模型

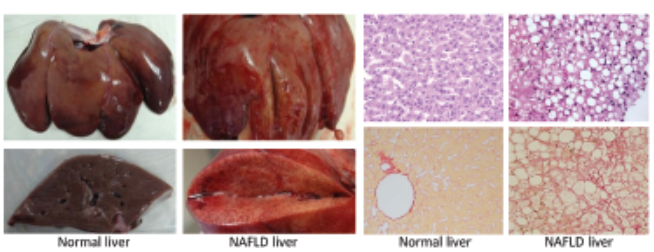


ob/ob mice + MCD model
ob/ob小鼠MCD模型

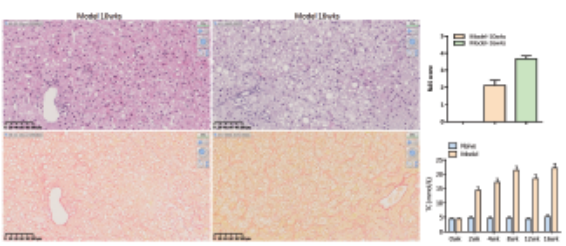


NHP Model
非人灵长类动物模型

HFD + High-fructose model
高脂高果糖模型

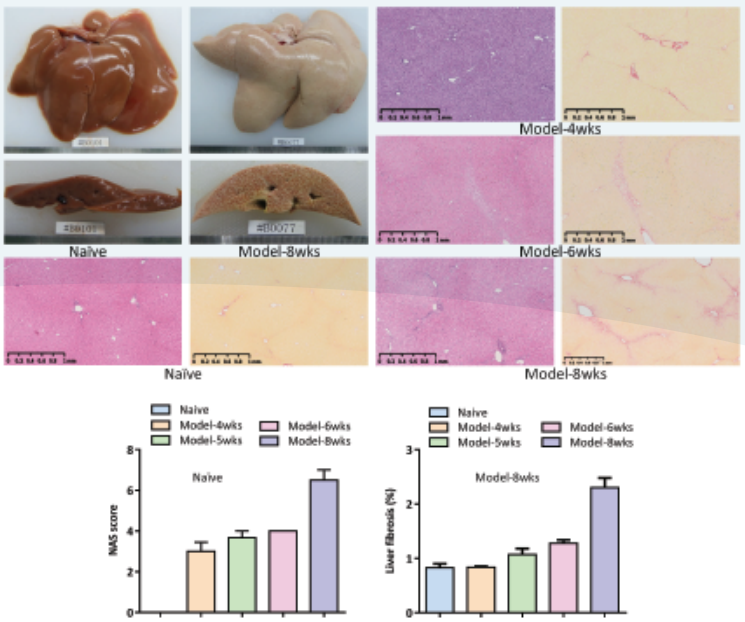


HFD + CHOL model
高脂高胆固醇模型

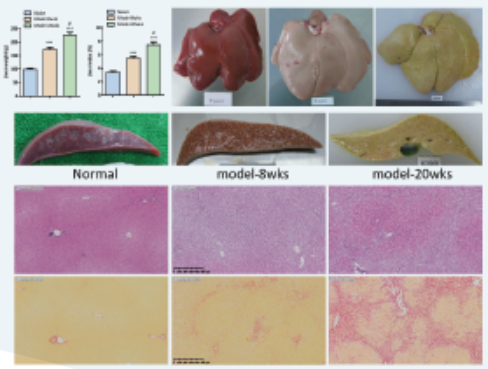


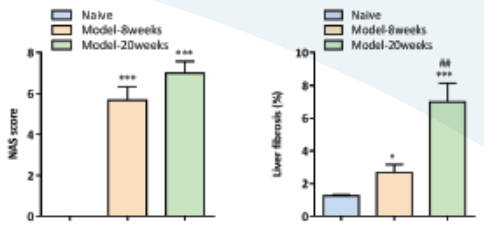
Rabbit Models
兔模型

HFD-CHOL model
高脂高胆固醇模型



NASH to liver cirrhosis
NASH转化为肝硬化





LIVER INJURY MODELS
肝损伤疾病模型

Acute liver injury models

- Alcohol induced acute liver injury on Kunming mouse & non human primate on NHP
- CCl_4 induced acute liver injury on rodents & NHP
- Liver ischemia reperfusion injury model on rodent

急性肝损伤模型

- 酒精诱导的急性肝损伤：昆明小鼠、非人灵长类动物
- CCl_4诱导的急性肝损伤：啮齿动物、非人灵长类动物
- 肝缺血再灌注损伤：啮齿动物

Chronic liver injury models

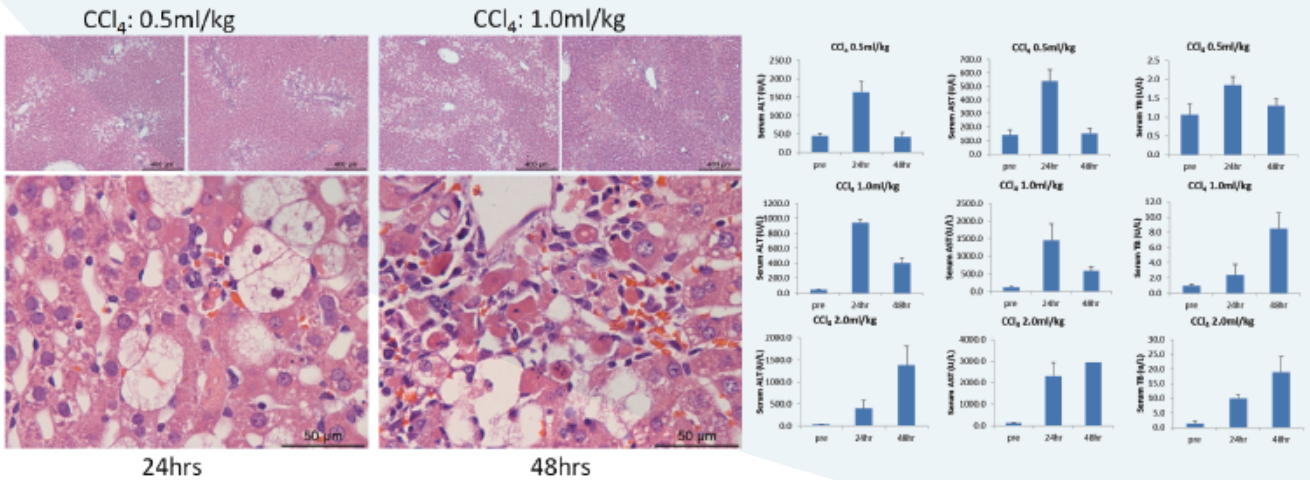
- CCl_4 induced liver fibrosis models on rodent
- CCl_4 induced liver cirrhosis models on rodent
- CCl_4 induced liver cirrhosis models on NHP
- Bile duct ligation (BDL) induced PBC models on rodent
- ANIT induced PBC models on rodent
- TNBS induced PSC models on rodent

慢性肝损伤模型

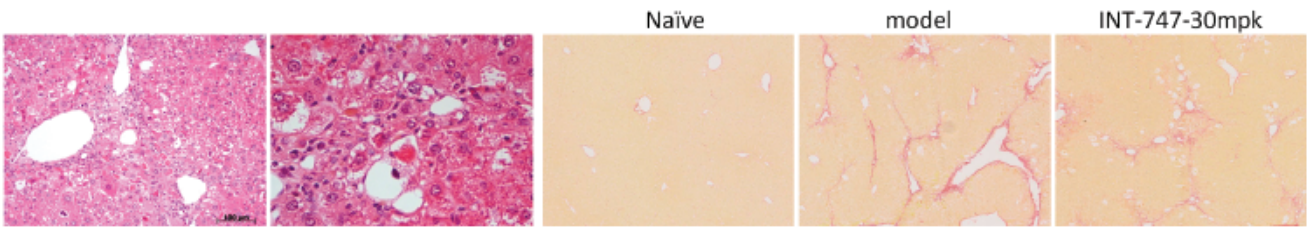
- CCl_4诱导的肝纤维化模型：啮齿动物
- CCl_4诱导的肝硬化模型：啮齿动物
- CCl_4诱导的肝硬化模型：非人灵长类动物
- 胆管结扎诱导的PBC模型：啮齿动物
- ANIT诱导的PBC模型：啮齿动物
- TNBS诱导的PSC模型：啮齿动物

Acute Liver Injury Models
急性肝损伤模型

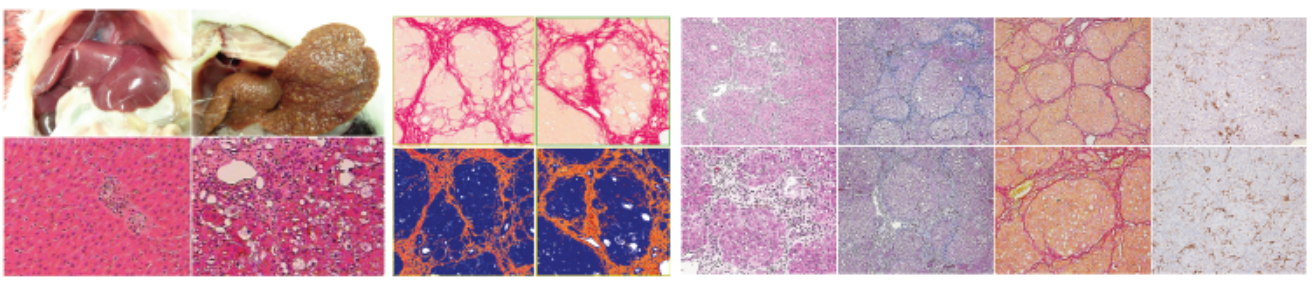
Mice acute liver injury model
小鼠急性肝损伤模型



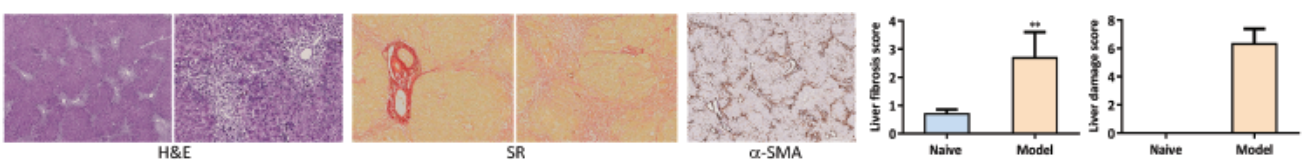
CCl_4 induced mouse chronic liver fibrosis model
CCl_4诱导的小鼠慢性肝纤维化模型



CCl_4 induced rat chronic liver cirrhosis model
CCl_4 诱导的大鼠慢性肝硬化模型

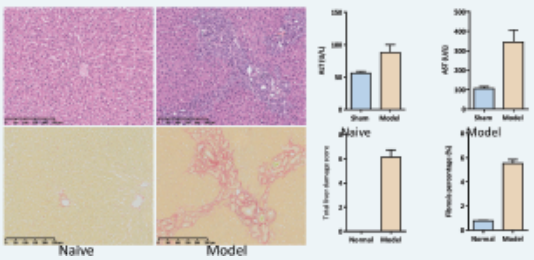


CCl_4 induced NHP liver fibrosis model
CCl_4 诱导的非人灵长类动物肝纤维化模型

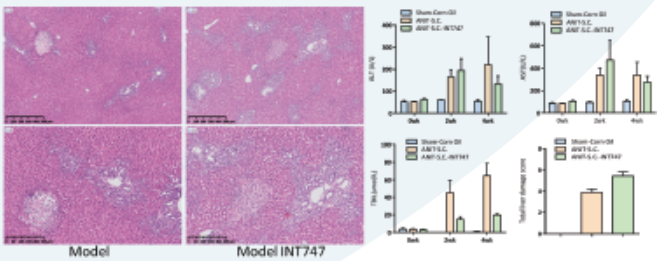


Chronic Liver Injury Models
慢性肝损伤模型

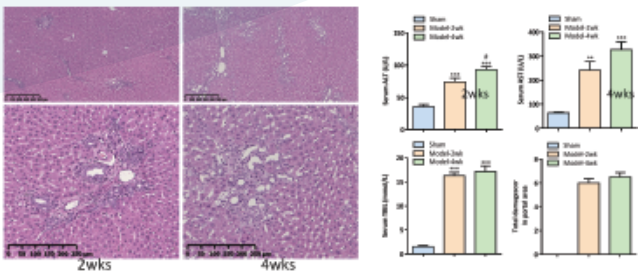
BDL induced rat PBC model
胆管结扎诱导的大鼠PBC模型



ANIT induced rat PBC model
ANIT诱导的大鼠PBC模型

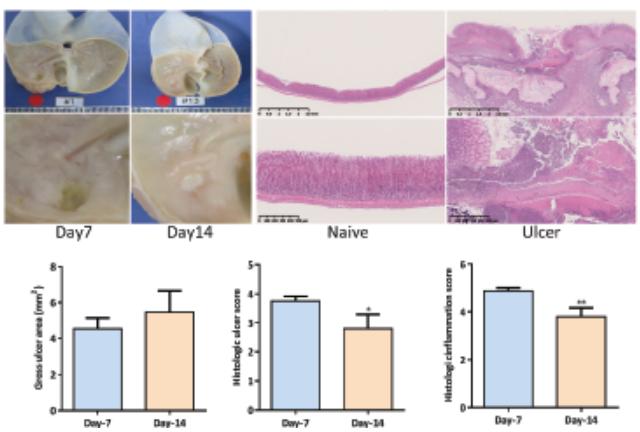


TNBS induced rat PSC model
TNBS诱导的大鼠PSC模型

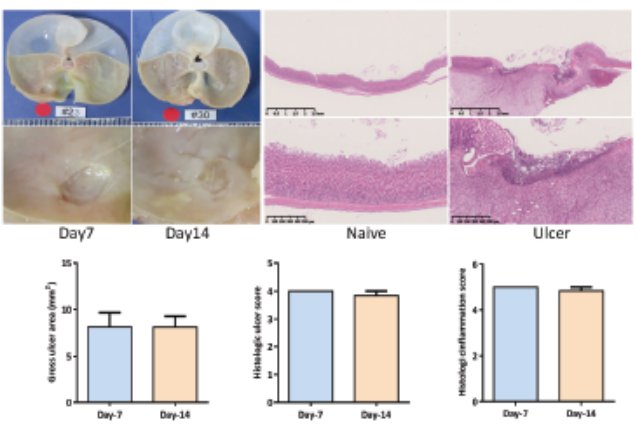


DIGESTIVE DISEASE MODELS
消化系统疾病模型

Serosa acetic acid impregnation induced rat gastric ulcer model
乙酸浆膜面浸渍法诱导的大鼠胃溃疡模型



Serosa acetic acid injection induced rat gastric ulcer model
乙酸浆膜面注射法诱导的大鼠胃溃疡模型



INFLAMMATION & IMMUNE DISEASE MODELS
炎症及免疫疾病模型

Lung disease models

- LPS-induced acute lung inflammation on rodents
- Bleomycin induced lung fibrosis on rodents
- Silicon induced lung fibrosis models on rodents
- Acute and chronic asthma on rodents

肺脏疾病模型

- LPS诱导的急性肺部炎症模型：啮齿动物
- 博莱霉素诱导的肺纤维化模型：啮齿动物
- 二氧化硅诱导的肺纤维化模型：啮齿动物
- 急性、慢性哮喘模型：啮齿动物

Rheumatoid arthritis models

- AIA models on rodents and NHP
- CIA models on rodents and NHP

类风湿性关节炎模型

- AIA模型：啮齿动物、非人灵长类动物
- CIA模型：啮齿动物、非人灵长类动物

Osteoarthritis models

- MIA induced OA on rodents, rabbit and NHP
- Joint operation induced OA rodents, rabbit and NHP

骨性关节炎模型

- MIA诱导的OA模型：啮齿动物、兔、非人灵长类动物
- 关节手术诱导的OA 模型：啮齿动物、兔、非人灵长类动物

Inflammatory bowel disease models

- DSS induced colitis on rodents
- TNBS/DNBS induced colitis on rodents

炎症性肠病模型

- DSS诱导的结肠炎模型：啮齿动物
- TNBS/DNBS 诱导的结肠炎模型：啮齿动物

Osteoporosis models

- Ovariectomized models on rodents, rabbit and NHP

骨质疏松模型

- 卵巢切除诱导的骨质疏松模型：啮齿动物、兔、非人灵长类动物

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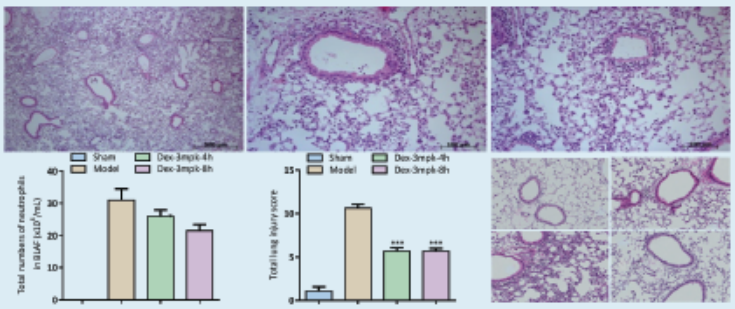
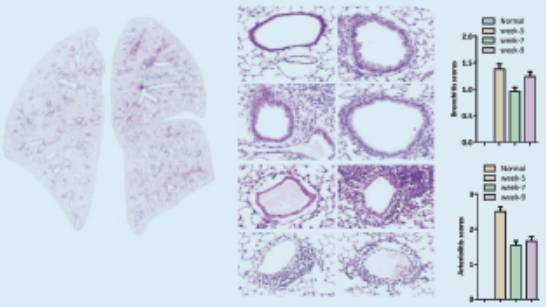
Lung Disease Models
肺脏疾病模型

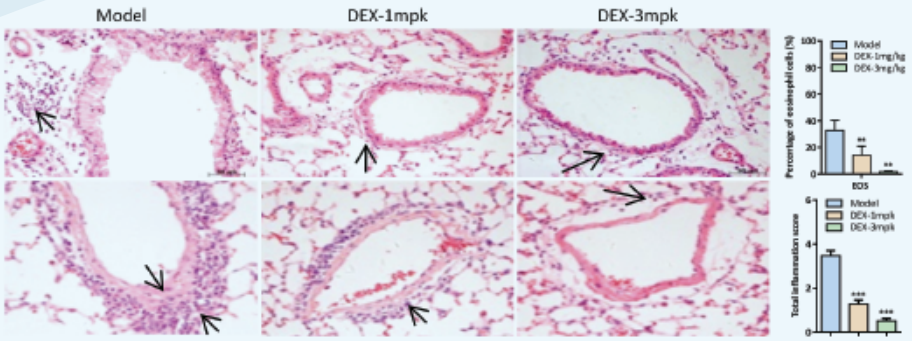
LPS induced rat acute lung injury model
LPS诱导的大鼠急性肺损伤模型



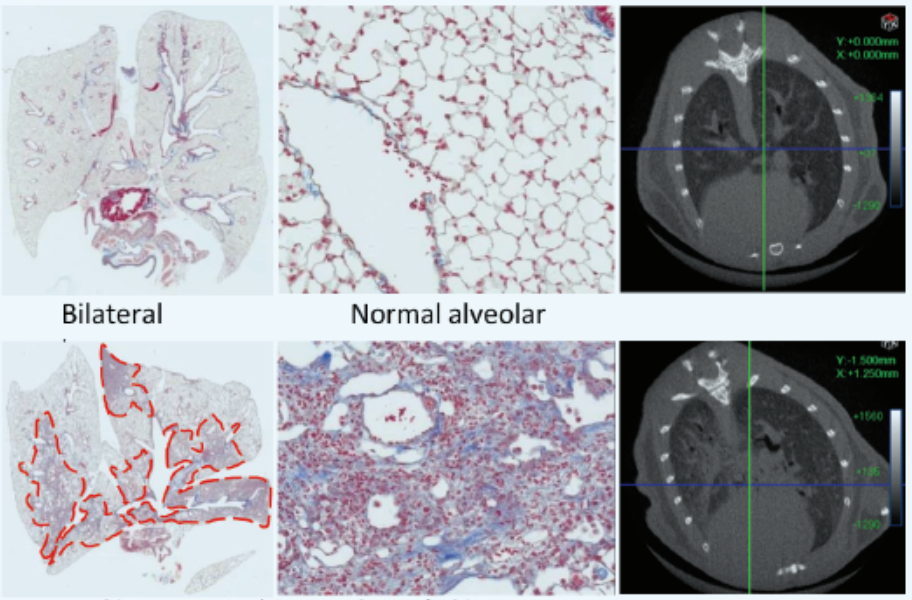
Mouse chronic asthma model
小鼠慢性哮喘模型



Mouse acute asthma model
小鼠急性哮喘模型

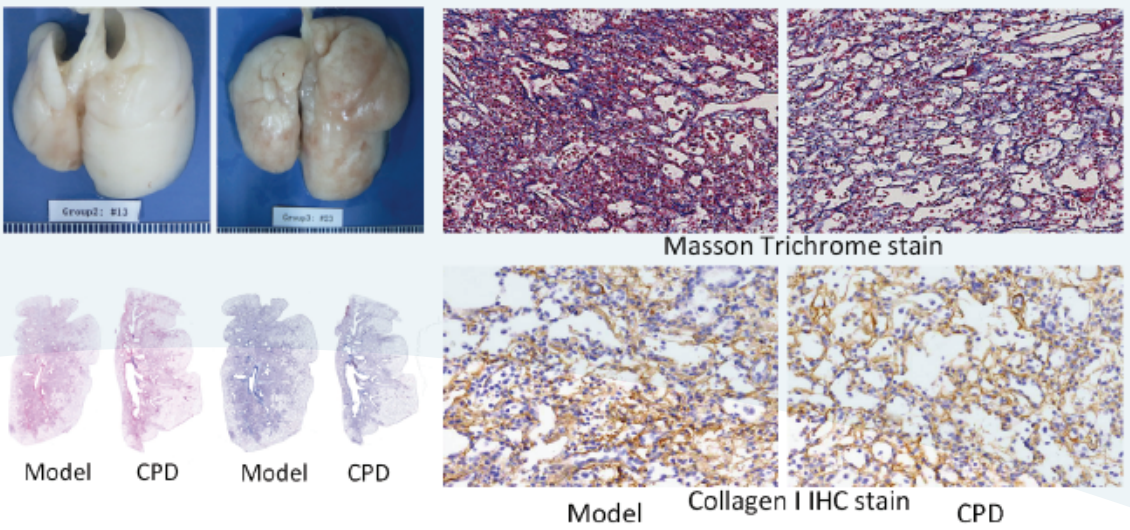


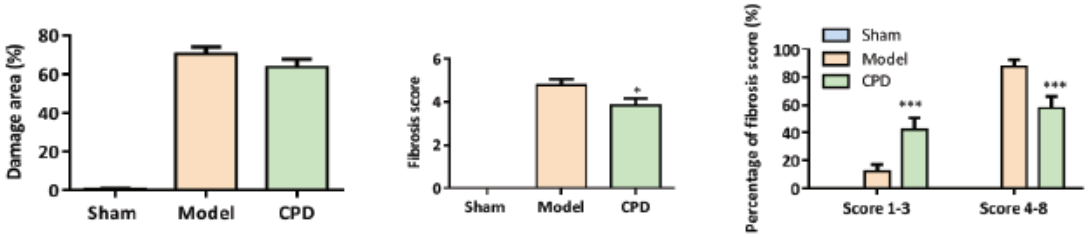
BLM induced mouse lung fibrosis model
博莱霉素诱导的小鼠肺纤维化模型



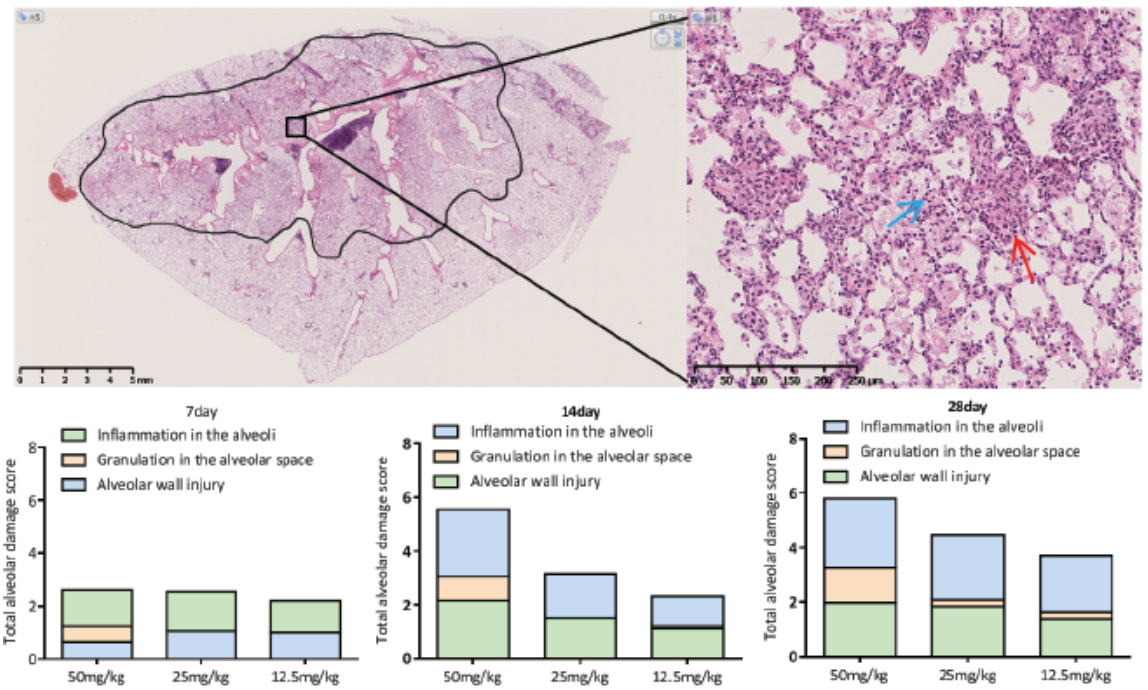
1.Lung fibrotic area (>50% of area), fibrotic score 5-7
2.Alveolar septal fibrosis with inflammatory cell infiltration

BLM induced rat unilateral lung fibrosis model
博来霉素诱导的大鼠单侧肺纤维化模型





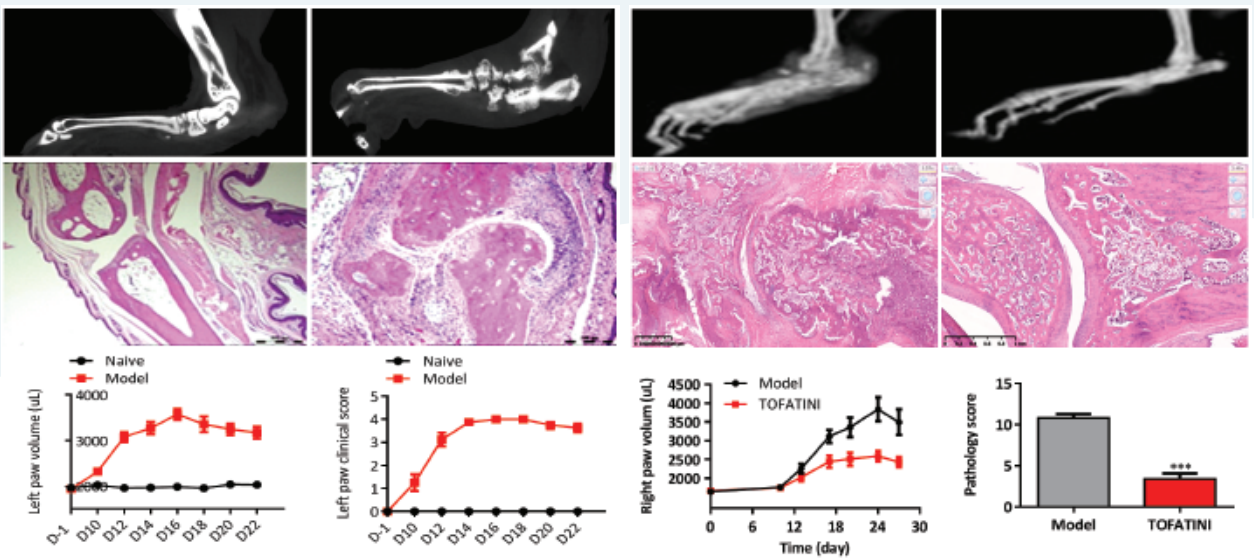
Silicon induced lung fibrosis model on rodents
二氧化硅诱导的大鼠肺纤维化模型



Rheumatoid Arthritis Models
类风湿性关节炎模型

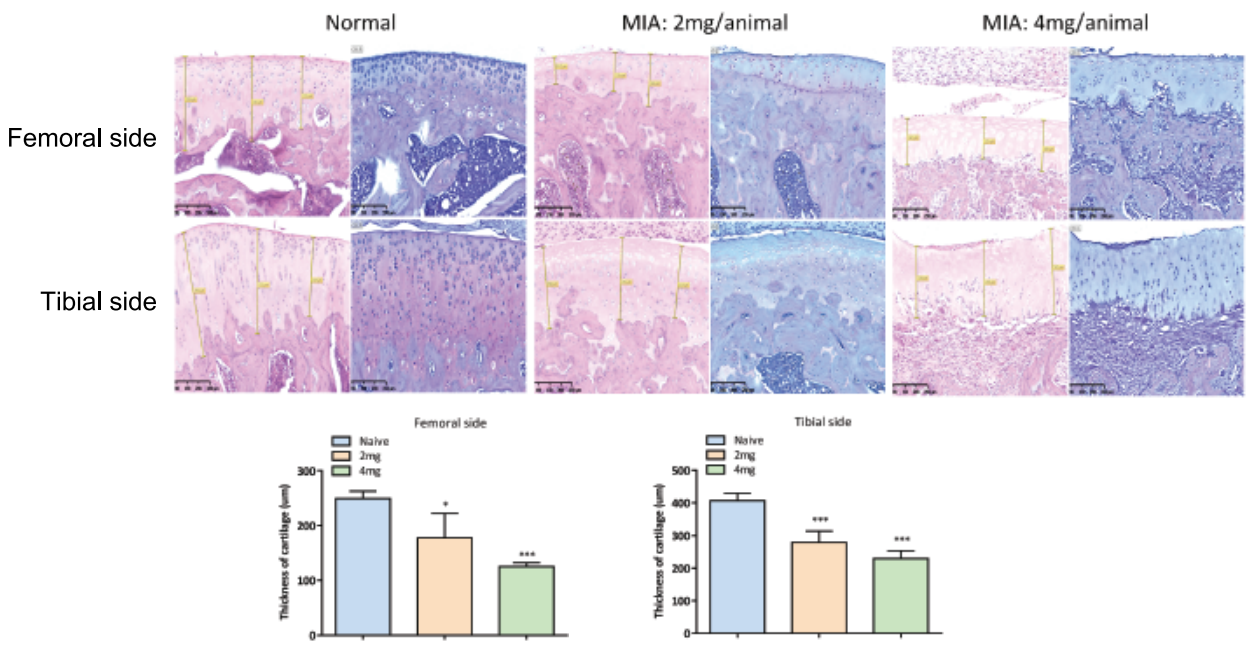
Rat CIA model
CIA诱导的大鼠关节炎模型

Rat AIA model
AIA诱导的大鼠关节炎模型



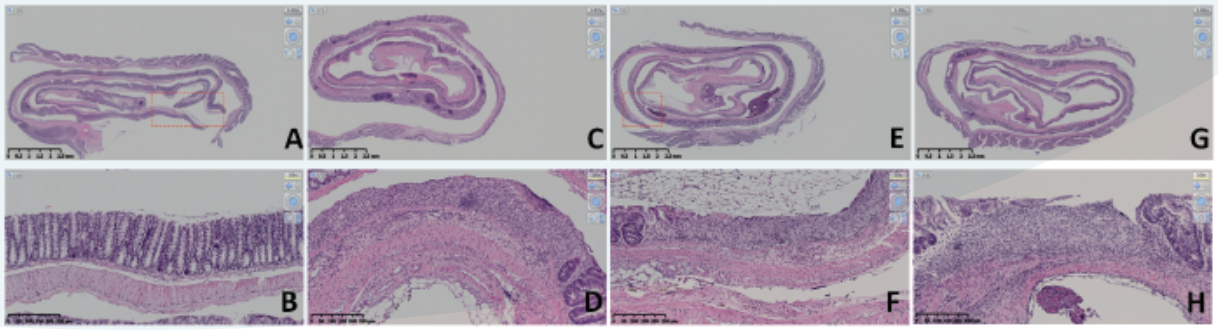
Osteoarthritis Models
骨性关节炎模型

MIA induced rat OA Model
MIA 诱导的大鼠OA模型

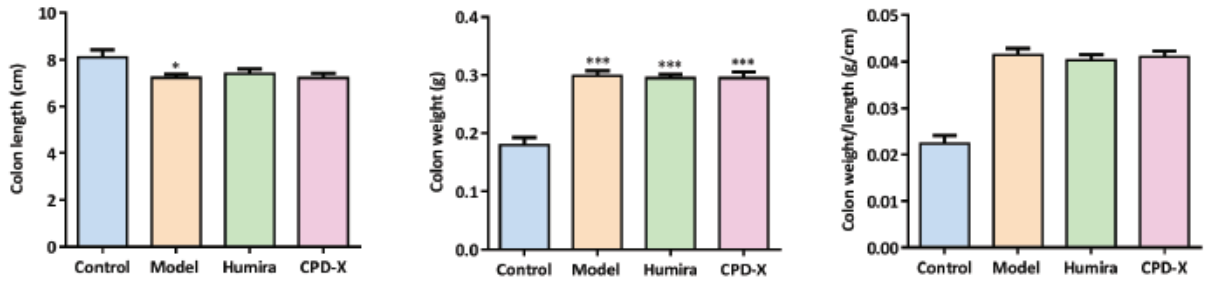


Inflammatory Bowel Disease Models
炎症性肠病模型

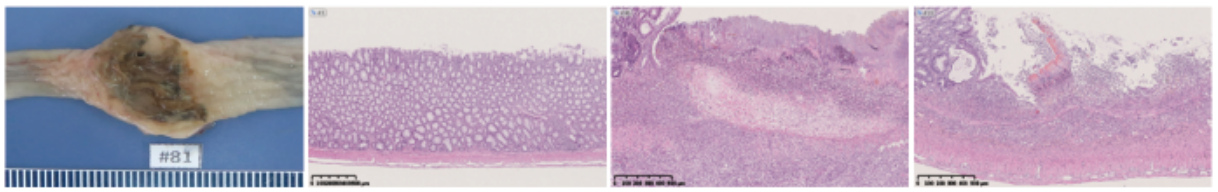
DSS induced mouse IBD model
DSS诱导的小鼠炎症性肠病模型

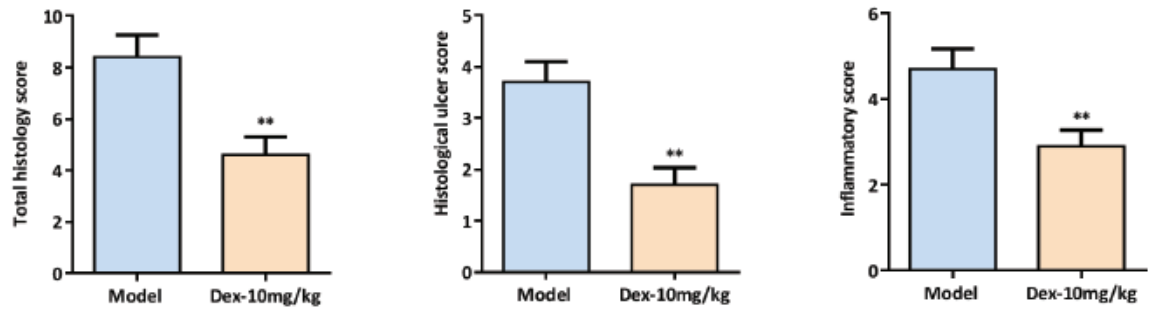


A&B: Naïve animal; C&D: model; E&F: Humira; G&H: CPD-X



TNBS induced rat IBD model
TNBS诱导的大鼠炎症性肠病模型





PAIN MODELS
疼痛模型

Acute pain models

- Hot plate test models: in the mouse and rat
- Tail immersion test models: in the mouse and rat
- Writhing response test models: in the mouse and rat

急性疼痛模型

- 热板试验模型：啮齿动物
- 甩尾实验模型：啮齿动物
- 扭体实验模型：啮齿动物

Inflammatory pain models

- Formalin induced pain models: in the mouse and rat
- Carrageenan induced pain models: in the mouse and rat
- Capsaicin induced pain models: in the mouse and rat
- CFA induced pain models: in the mouse and rat

炎症性疼痛模型

- 福尔马林诱导的疼痛模型：啮齿动物
- Carrageenan诱导的疼痛模型：啮齿动物
- Capsaicin诱导的疼痛模型：啮齿动物
- 完全佐剂诱导的疼痛模型：啮齿动物

Neuropathic pain models

- The Bennett model–chronic constriction injury (CCI)
- The Chung model–spinal nerve ligation (SNL)

神经性疼痛模型

- CCI模型：啮齿动物
- SNL模型：啮齿动物

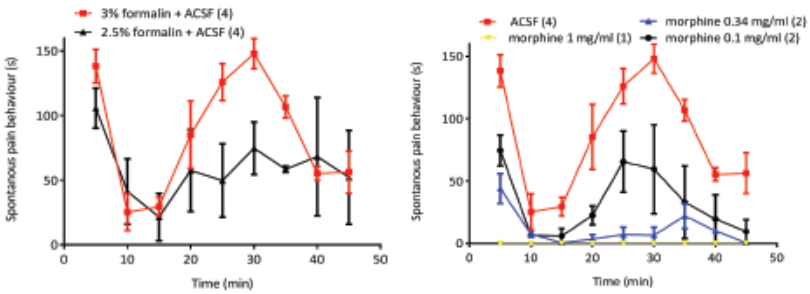
Postoperative pain model

- Plantar incision induced pain models: in rat

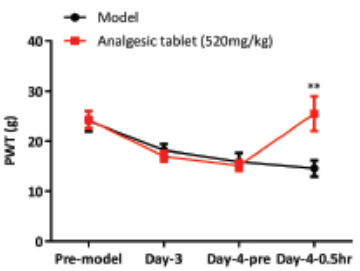
术后疼痛模型

- 足垫切口诱导的疼痛模型：啮齿动物

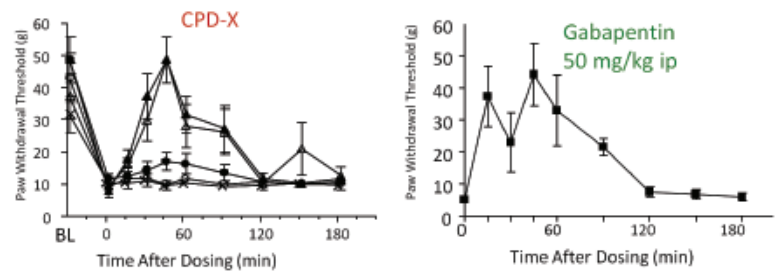
Formalin induced pain model
福尔马林诱导的疼痛模型



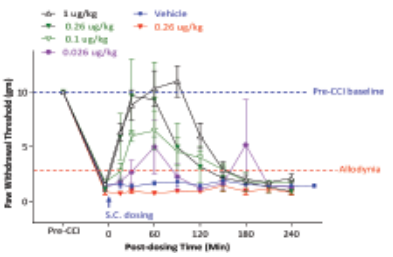
CFA induced pain model
CFA诱导的疼痛模型



SNL induced pain model
SNL 诱导的疼痛模型



CCI induced pain model
CCI 诱导的疼痛模型



URINARY DISEASE MODELS
泌尿系统模型

Acute kidney injury model

- Ischemic reperfusion injury models in rodent and NHP
- Acute unilateral ureteral obstruction models in rodent and NHP

急性肾损伤模型

- 肾缺血再灌注模型： 啮齿动物、非人灵长类动物
- 单侧输尿管结扎模型：啮齿动物、非人灵长类动物

Subacute / chronic renal failure models

- Sub-total (5/6) nephrectomy models rodent and NHP
- Sub-total renal infarction (1k nephrectomy with 1k 2/3 infarction) models in rodent and NHP
- Tubular toxic (adenine toxic) models in rodent

亚急性、慢性肾衰竭模型

- 肾部分切除（5/6）模型：啮齿动物、非人灵长类动物
- 肾部分梗死模型：啮齿动物、非人灵长类动物
- 肾小管毒性模型：啮齿动物

Nephropathy models

- Obesity-related glomerulopathy: rabbit model
- Diabetic nephropathy: rodent model

肾病模型

- 肥胖性肾小球肾病模型：兔
- 糖尿病性肾病模型：啮齿动物

Kidney transplantation models

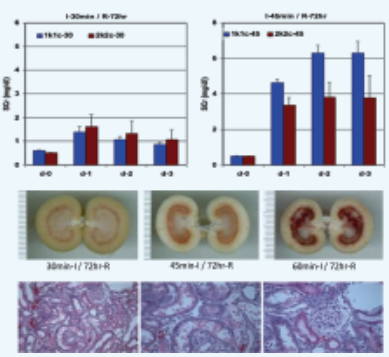
- Rat warm kidney graft transplant
- Rat delayed kidney graft transplant
- NHP kidney graft transplant

肾移植模型

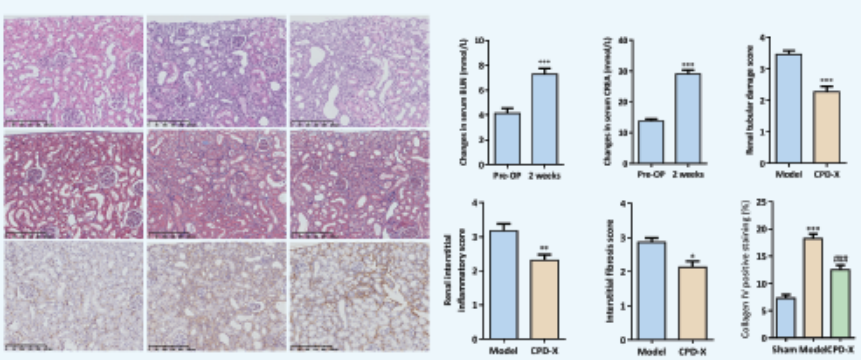
- 大鼠常温肾移植模型
- 大鼠延迟性肾移植模型
- 非人灵长类动物动物肾移植模型

Acute Kidney Injury Models
急性肾损伤模型

Acute kidney injury model
急性肾损伤模型

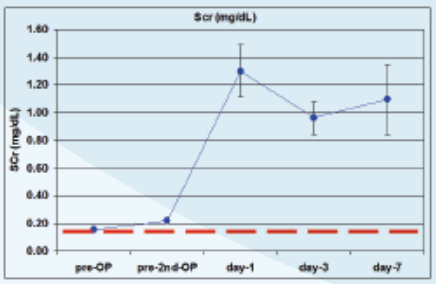


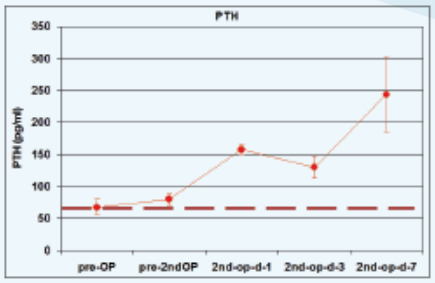
UUO induced renal fibrosis model
UUO诱导的肾纤维化模型模型



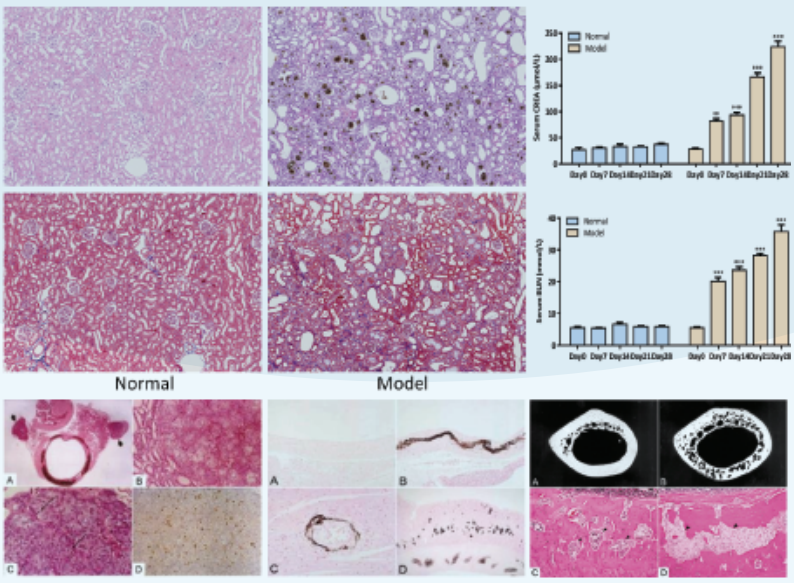
Subacute/Chronic Renal Failure Models
亚急性、慢性肾衰竭模型

5/6 nephrectomy model
5/6肾切除模型



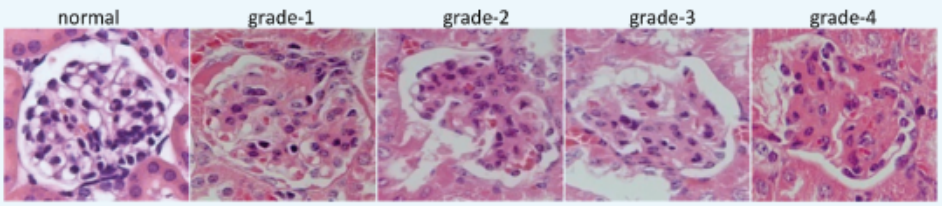


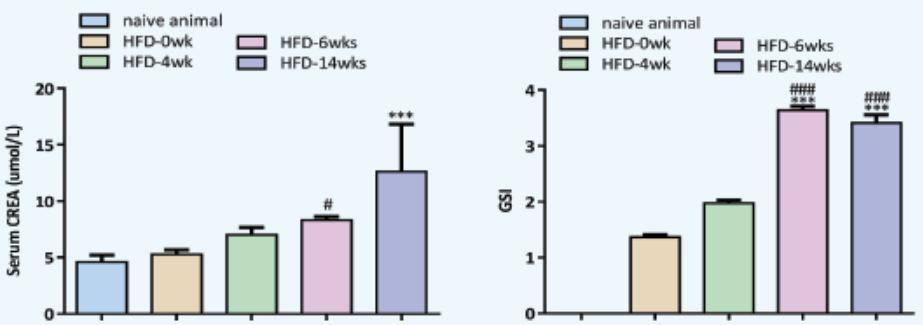
Adenine induced chronic renal failure model
腺嘌呤诱导的慢性肾衰模型



Nephropathy Models
肾病模型

Diabetic nephropathy model
糖尿病肾病模型

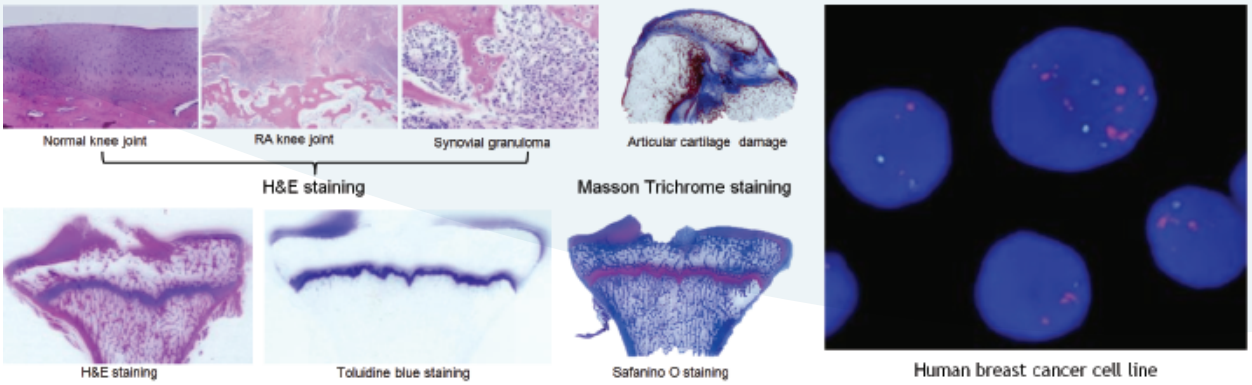


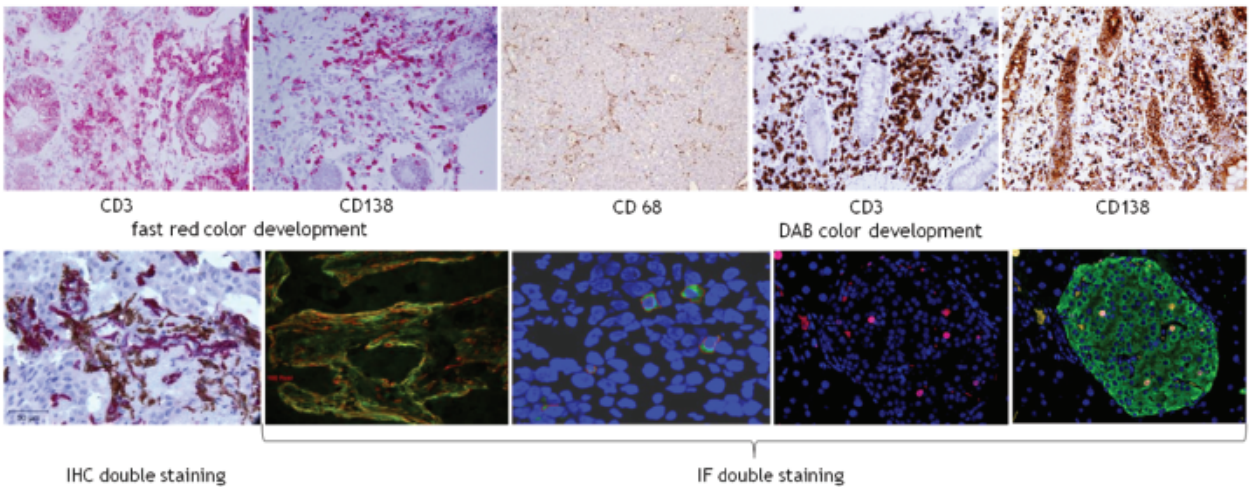


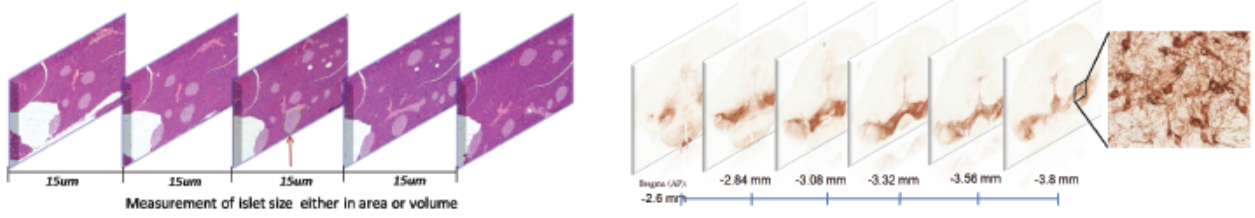
PATHOLOGY SERVICES
病理学服务

KCI offers customized full-service gross pathology and histology capabilities including necropsy, histopathology, immunohistopathology, digital pathology, biocompatibility, tumor pathology, toxic pathology, etc. KCI's Chinese board certified histolotechnologists have the expertise and ingenuity to make even the most complex histology projects possible.

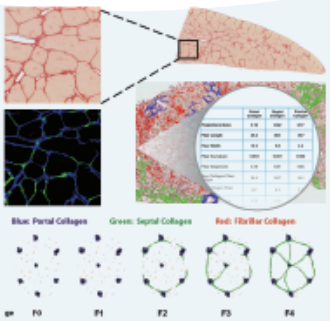
提供全方位的病理学服务，包括病理解剖学，组织病理学，免疫病理学，数字病理学，肿瘤病理学，毒理病理学等方面的服务，技术团队拥有国际认可的专业经验，能够为各种复杂的组织学项目提供定制服务。

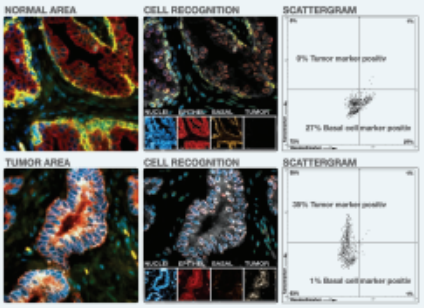


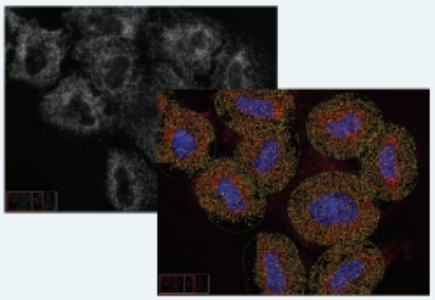


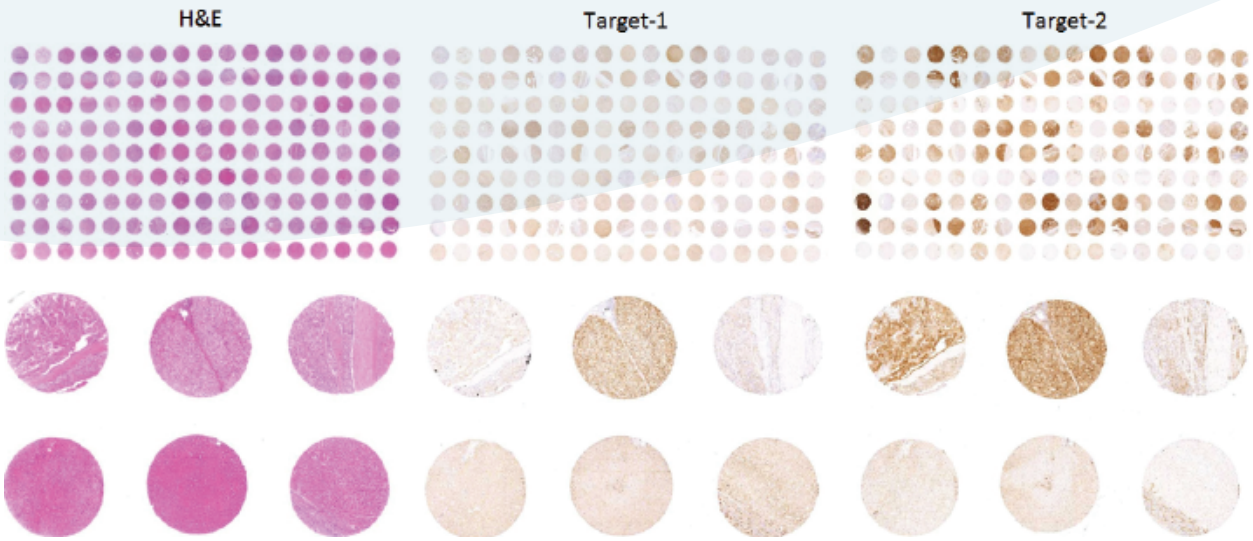


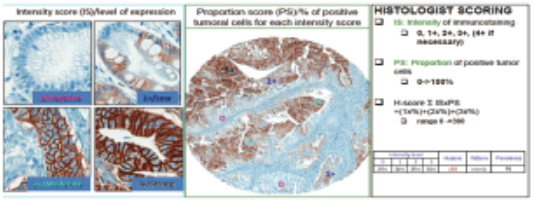
DIGITAL AND TELE PATHOLOGY
数字病理及远程病理











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