

南通大学实验动物中心标准操作规程

The Standard Operating Procedures for Laboratory Animal Center of NTU

动物实验伦理审查表

The Tab of Animal Experimental Ethical Inspection

编号(Nº):

S20151221-908

申请人填写的相关信息 (Information Of applicant)	申请单位(Name of organization): Affiliated Nantong Hospital 3 of Nantong University			
	主要申请人姓名(Name of applicant): Zhao-Lian Bian	学历(Education): MD PhD	技术职称(Professional title): Associate Chief Physician, Associate Professor, Doctor	江苏省培训记录卡编号 (No. of training card):
	主要成员姓名(Name of applicant): Wei-Jie Chen	学历(Education): Bachelor	技术职称(Professional title):	江苏省培训记录卡编号 (No. of training card):
	主要成员姓名(Name of applicant): Yi-Cun Liu	学历(Education): Bachelor	技术职称(Professional title):	江苏省培训记录卡编号 (No. of training card): 220212332
	主要成员姓名(Name of applicant): Tiao-Chun Cheng	学历(Education): Master	技术职称(Professional title):	江苏省培训记录卡编号 (No. of training card): 220196409
	项目名称(Title of project): Interleukin-34 deficiency aggravates development of colitis and colitis-associated cancer in mice			
	实验目的(Aim of experiment): To investigate the function of IL-34 in acute colitis, in a wound healing model and in colitis-associated cancer in IL-34-deficient mice.			
	拟进动物情况	动物来源(Source of animal): Beijing Cas Gene Biotech, Beijing, China		
		品种品系(Species or strain): C57BL/6J 等级(Grade): SPF 体重(Body weight): 18~22g 周龄(Week age): 6 性别(Sex): Male 数量(Number): 30 合格证号(No. of qualification): 0029086 代养单编号(No. of Breeding Application):		
		申请日期(Application date): 2015 年 12 月 1 日		批准日期(Approved date): 2015 年 12 月 21 日
进驻日期(Entering date): 2016 年 1 月 28 日		结束日期(Ending date): 2016 年 4 月 25 日		

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实验要点, 包括动物分组、饲养条件、处置情况(如前期准备、手术过程和术后护理等)、观测指标、安乐死及尸体处理方式等(Key points: Animal grouping, breeding condition, experimental methods, observational index, euthanasia et. al):

动物处理 (Materials and methods):

Acute colitis was induced by oral administration of 3% (M/V) dextran sulfate sodium (DSS, MW: 36 000–50 000; MP Biologicals, USA) in drinking water for 7d. The mice were killed to obtain colon tissues at the indicated time or until day 16 to record the mortality. The murine wound healing model was established by oral administration of 3% DSS for 5d and then switched to normal water for the following 5d. The mice were killed on day 8 or 10. Colitis-associated cancer was induced by administration of the carcinogen azoxymethane (AOM; Sigma, Germany) and repeated administration of DSS. The mice were given a single injection of AOM (10mg/kg). Seven days later, mice were administrated 1.25% DSS (w/v) in drinking water for seven consecutive days, and fresh drinking water for 14d. Seven days of DSS and 14d of fresh water was repeated four times as a cycle. The mice were killed, and the incidence rate of tumors was analyzed. Macrophage depletion from murine colons in vivo was performed as described previously. In brief, 200 μ L clodronate liposomes (Liposoma Research, Amsterdam, Netherlands) were intraperitoneally injected into mice 2d prior to onset of experimental colitis and every 2d during the process.

观测指标 (Indexes to observation) :

The percentage of body weight change of each mouse was recorded throughout the duration of DSS administration. Fresh feces from mice were collected for occult blood tests using a fecal occult blood kit (Nanjing Jiancheng Bioengineering, Jiangsu, China). The clinical score index of the murine model consisted of stool consistency and fecal occult blood.

The entire colon was harvested for measuring the length. The colon was washed in phosphate-buffer saline and fixed in 10% formaldehyde solution for 24 h. Hematoxylin–eosin (H&E) staining was performed on the tissue sections.

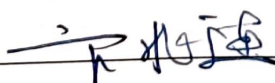
安乐死及尸体处理方式 (Euthanasia) :

Animal sacrifice method: sacrifice by cervical dislocation.

How to deal with the corpse: autopsy the corpse, after obtaining the sample, the corpse is frozen at -20 degrees Celsius for centralized processing.

主要申请人签名(Signature of Applicant):

联系电话(Telephone): +86 13962910367



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<p>审查依据 (Inspection criteria)</p>	<p>该项目是否必须用实验动物进行实验, 能否用计算机模拟、细胞培养等非生命方法替代动物或用低等动物替代高等动物进行实验(Does laboratory animal must be used in the project? Could other methods such as computer simulation, cell cultivation or using the low-grade animal instead of the high-grade animal)?</p> <p>该项目必须用实验动物进行实验, 不能用计算机模拟、细胞培养等非生命方法替代动物或用低等动物替代高等动物进行实验。</p> <p>表中所填申请人资格和所用动物的品种品系、质量等级、规格是否合适, 能否通过改良设计方案或用高质量的动物来减少所用动物的数量(Are the qualification of applicant, species or strain, grade and specifications of animals suitable? Could the quantity of animals be reduced by improving the study design or using high quality animals)?</p> <p>申请人资格和所用动物的品种品系、质量等级、规格合适, 不能通过改良设计方案或用高质量的动物来减少所用动物的数量。</p> <p>能否通过改进实验方法、调整实验观测指标、改良处死动物的方法, 来优化实验方案、善待动物(Could the study design and animal treatment be refined by ameliorating experimental method, adjusting observational index, executing animal method)?</p> <p>实验方法、实验观测指标、处死动物的方法符合动物伦理要求, 此实验不能通过改进实验方法、调整实验观测指标、改良处死动物的方法来优化实验方案、善待动物。</p>	
<p>审查结果 (是否同意申请人的实验方案) (Results of inspection)</p>	<p>课题负责人意见 (Principal Investigator):</p>	<p>同意 <input checked="" type="checkbox"/> (Agree) 不同意 <input type="checkbox"/> (Disagree) 签名  (Signature)</p>
	<p>质量保障室主任意见 (Director of QC Department):</p>	<p>同意 <input checked="" type="checkbox"/> (Agree) 不同意 <input type="checkbox"/> (Disagree) 签名  (Signature)</p>
	<p>实验动物伦理委员会意见 (Director of IACUC):</p>	<p>同意 <input checked="" type="checkbox"/> (Agree) 不同意 <input type="checkbox"/> (Disagree) 签名  (Signature)</p>
<p>备注(Supplement): 请注明具体用途/Please specify the aim of current application</p> <p>For paper publication</p>		<p>签章(Stamp)</p>