动物实验伦理审查表 编号 (No): FJMU IACUC 2018-088

# The Table of Animal Experimental Ethical Inspection

申请人填写(Written by Applicant)

	mater by Appi	icant)				
	项目负责人(	Study Director): 黄	龙生	关系电话	舌 (Telephone):	13705929261
	专业(Major	): 针灸推拿学	f.	長真(F	'ax): /	10 10 1
申请人基本信息 (Applicant Information)	岗位证书编号	子(Number of Licer	nse): 由	『箱(Em	nail): 83194221@	qq.com
	申请人 (Applicant): 冯叶彬		联	系电记	f (Telephone):	5980299920
	申请部门(D	Department): 福建省	矿妇幼保健院			
	项目名称(St 用机制的研究	tudy Name):基于1	NRGI/ErbB4 信	号紊乱	儿在"靳三针"治	疗孤独症中
项目基本信息	项目编号(St	tudy Number): 818	04173		-	
(Study Information)	项目来源(So	ource of Study): 20	18年国家青年	科学基	金项目	
	实验目的(Aim of Study):针刺孤独症大鼠模型以及目标基因胚胎电转模型,分析分子、细胞及整体动物行为发生的变化,为针刺治疗孤独症的作用机制提供分子生					
	物学基础					
供试品信息	供试品名称(	Test Article Name): Test Article Number				
供试品信息 (Test Article Information)	供试品名称(供试品编号(	Tes la	): 无	+	a and a second as	
(Test Article	初子垂讪         供试品名称(         供试品编号(         供试品类别(         是否属于有毒	Test Article Number	): 无 cation): 药品	harmfi	ul substances):	
(Test Article	初子垂讪         供试品名称(         供试品编号(         供试品类别(         是否属于有毒         是	Test Article Number Test Article Classific (害)物质(Wheth	): 无 cation): 药品			日上岗证号
(Test Article	初子垂讪         供试品名称(         供试品编号(         供试品类别(         是否属于有毒         说明:	Test Article Number Test Article Classific (害)物质(Wheth 否√	): 无 ration): 药品 her it is toxic or	容	ul substances): 实验动物从业/ (Number of	
(Test Article	初子並加         供试品名称(         供试品编号(         供试品类别(         是否属于有毒         説明:         姓名	Test Article Number Test Article Classific (害)物质(Wheth 否 √ 专业	): 无 ration): 药品 her it is toxic or 工作内	容 nt) 大脑	实验动物从业人	License)
(Test Article Information)	初子垂讪       供试品名称(       供试品编号(       供试品类别()       是否属于有毒       说明:       姓名       (Name)	Test Article Number Test Article Classific (害)物质(Wheth 否√ 专业 (Major)	): 无 ration): 药品 her it is toxic or 工作内 (Conter 腹腔注射,	容 nt) 大脑 天脑	实验动物从业/ (Number of	License)

#### 福建医科大学 Fujian Medical University

· · .	生产许可证号(Number of	生产许可证号(Number of Production license): SCXK(沪)2017-0005						
拟进动物情况 (Animal Information)	品种品系 (Species or Strain):	Wistar 大鼠	等级(Grade):	SPF 级				
miormation /	数量(Quantity):	60 只: 雌雄 1:1	规格(Specification):	8 周 龄 200-250g				
,	进驻日期 (Entering Date):	2018.11	结束日期 (Ending Date):	2019.6				
		SYXK(闽)2016-0 医科大学上街校[	000 <u>6</u> 区实验动物中心三月	<u></u>				
	◇饲养环境(Breeding er 普通环境)		环境 ☑					
C Outline of	◇饲养人员 (Breeder)							
	饲养人员负责 ☑ 实验人员负责 □ 其他人员负责 (请注明):							
实验动物饲养情况 (Housing Information)	◇ 其他特殊要求(请详细描述,包括饲料、饮水、温度、湿度、光照周期、笼具垫料等要求) Special care (Briefly describe any special food, water, temperature, humidity, light cycle, caging type and bedding requirements.):							
	THEN							
	无特殊要求	and the second		MENANTIN TELL TELL COMPANY AND				
	<b>尤符</b> 殊要求							
	尤符殊安水							
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/	福建医科大· Fujian Medical Univer	
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Constraint Reputations	Administration, Observation indexes, etc.): 实验组与模型组于孕鼠 E12.5 天时腹腔注 按 250mg/ml 溶解在生理盐水),对照组子 分为实验组、模型组、对照组、空白组, 次,连续 10 天,比较外观、体重,睁眼 后(断颈),取大脑皮层,双侧海马,12	
9-21.3-M	discomfort or pain, if yes, please describe th 是(请说明) ☑ 否□	2处理方法(Does the study can induce the animal e treatment): 能和实验动物保定方法,动作轻柔,以减轻实
(Applicant)	the study): 继续饲养□	be the animal processing method when the end of
实验内容概述	<b>新桃昭白洪王冰上断颈协</b> 亚小鼠	途径、剂量等,如为非常规方法请说明理由): ,动作迅速,不引起疼痛和兴奋,能快速导致
( Outline of	意识丧失和死亡。	
Study) :	尸体、组织、或体液的最终处理 动物尸体:动物中心统一处理 ☑	
	其他(请注明)	
(Addition Documentant)	to surgery, please describe anesthesia n postoperative care):无☑ 有□ ☆手术名称/方法: ☆麻醉情况说明:	
and the second second		给药途径:
	<ul> <li>☆术后处理:</li> <li>实施安死术 □ 继续</li> <li>其他(请注明)</li> </ul>	续饲养留待观察(请填写下面内容)口
	☆ 术后护理:	~~ 티
	镇 痛 药:药品名称:	
		给药频率: 剂 量:
	抗感染药物:药品名称:	
	给药途径: 其他(请注明):	

福建医科大学 Fujian Medical University

伦理委员会成员 回避要求 (Avoidance Requirement)	◇ 伦理委员会回避成员名单(Name of Avoidance member):
申请人声明 (Applicant	◇ 声明(Statement): 我保证以上所填内容真实可靠,并将严格遵守上述实验方案,保证研究过程中 严格遵守相关标准操作规程、遵守国家及地方相关法律法规,随时接受伦理委员会 的监督与检查。
Statement)	签 名(Signature): <u><u></u> <u>2018</u>年<u>10</u>月<u>10</u>日</u>
补充资料 (Addition Document)	
审査结果 (Results of Inspection)	◆实验动物中心主任意见(Comments Director of Laboratory Animal Center): ✓ 同意(Agree) □ 不同意(Disagree) 签 名(Signature): ディーレルシー 2018年_0月34日
	2018_年_12_月_4月_日

福建医科大学 Fujian Medical University 实验动物福利伦理委员会填写(Written by Laboratory Animal Welfare & Ethics Committee): ◇ 是否符合如下要求(Does the study accord with following Requirements): ◆ 该项目是否必须用动物进行实验,能否采用动物替代方法,即使用低等动物 替代高等动物,用非脊椎动物替代脊椎动物、用组织细胞替代整体动物、用分子生物 学、人工合成材料、计算机模拟等非动物实验方法替代动物实验: 【符合 M 不符合 口】 ◆该项目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; 【符合 🗹 不符合 口】 审查内容 ◆该项目是否符合动物福利原则。实验动物运输及饲养过程中是否能够享有最基 (Contents of 本权利,享有免受饥渴、生活舒适自由,享有良好饲养和标准化的生活环境的要求; Inspection) 【符合 🗹 不符合 口】 ◆该项目实验操作中是否符合实验动物伦理原则,包括合理的实验终点,麻醉方 案、减少实验动物应激、痛苦和伤害的措施以及实验结束后动物处理和动物安死术方 案等: 【符合 ☑ 不符合 □】 ◆该项目是否充分考虑从业人员的安全要求: 【符合 🗹 不符合 口】 ◆该项目实验方法和目的是否符合人类的道德伦理标准、国家和国际相关标准。 【符合 🗹 不符合 🗆 】 常规审查 □ 会议审查 🔽 参会人员签名(Signature): 审查形式说明 (Information of Inspection form) L

	◇ 实验动物福利伦理委员会意见(Comments Director Animal Welfare & Ethics Committee)
	同意 🗹
	不同意 口
	说明理由:
审查结果	
(Results of Inspection)	
	签名/盖章(Signature/Stamp)、 シロア まわ、ほどし

### 填表说明:

1.申请人需在动物实验开始前提交本表。

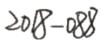
2.申请人需仔细、认真、完整填写上述内容。

3.**本审查表一式二份单面打印填写**,审批完成后,实验动物伦理委员会以及动物实验伦理申 请人各留一份。

4.电子版发送实验动物伦理邮箱: svdwll@mail.fjmu.edu.cn。



Form number (No): FMUIACUc



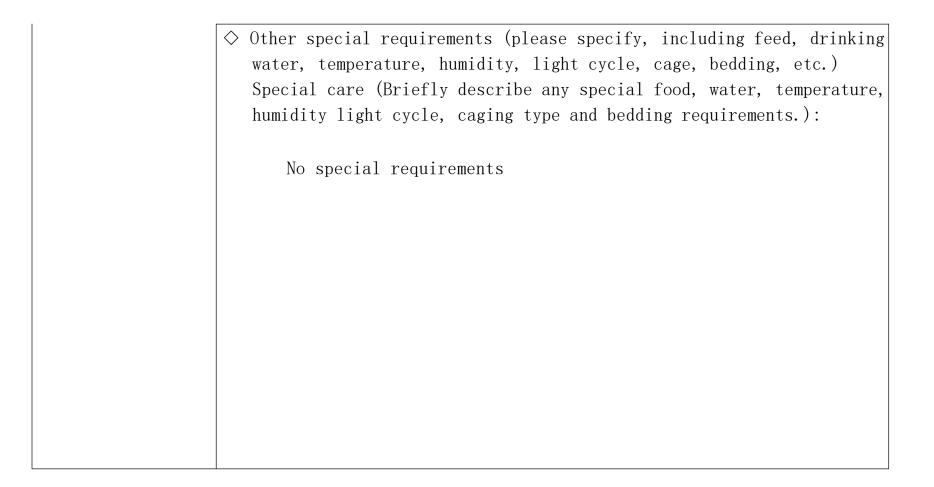
## The Table of Animal Experimental Ethical Inspection

Applapplicant (Written by Applicant)

	Project Le Huang Long	ader (Study Director) sheng		telephone number one): 13705929261
	Major (Maj massage sc	or): Acupuncture and ience	Fax (Fa	ax): 1
Basic information	Post Certi	ficate Number (Numbe	er Email (E	Cmail): 83194221@qq.com
of the applicant	of License	): /		
(Applicant Information)	Applicant	(Applicant): Feng Yek		telephone number one): 15980299920
		department (Departme h Care Hospital	ent): Fujian Pr	ovincial Maternal and
		e (Study Name): Based isorder in the treat		ism of NRGI / ErbB 4
Basic information of the project	Project Num	ber (Study Number): 8	81804173	
(Study Information)	Project sou Youth 2018	rce (Source of Study	): 2018 Nationa	al Science Foundation for
	-		-	odel of acupuncture autism
				vo, to analyze the changes
				havior, and to provide a
		10log1cal bas1s for 1	the mechanism of	f acupuncture treatment of
	autism	toot outicle (Test	Antiala Nama).	andium unlumente
	Name of the	test article (Test A	Article Name):	sodium valproate
For test product	lest articl	e number (Test Artic)	le Number): Non	e
information (Test	Test category (Test Article Classification): drug product			
Article Information)	Whether it mful substa		substance (Whe	ther it is toxic or har
	yesdeny √			
	explain:			
	Name	Profe	Work	Certificate number of
	(Name	ssiona	content	laboratory animal
	)	1	(Content	practitioners (Number
		(Major	)	of License)
Basic information		)		
of the experimenter	Zuo	oncology	Intraperitonea	(Min Hui) No.2016-126
(Operator	Weimin		1 injection,	
Information)			cerebral	
			cortex	
			material	
			observation	

Huang	Acupuncture	Experimental	/
Longshen	and massage	design, and	,
g		the cerebral	
		cortex was	
		used for	
		observation	
Wang	pediatrics	Animal	/
Jingrong		behavior was	
		observed, and	
		the	
		experimental	
		data were	
		recorded	

	Animal source (Source of Co., Ltd	Animal): Sha	nghai Slake Laborat	cory Animal
Proposed	Production License No. (1 2017-0005	Number of Pro	oduction license):	SCXK (Shanghai)
feeding animal	Varieties of strains (Species or Strain):	Wistar Rat	Grade (Grade):	SPF level
condition (Animal Information)	Quantity (Quantity):	60 mice: male and female 1:1	Specifications (Specification):	At 8 weeks of age, 200 - 250g
	Date of entry (Entering Date):	2018.11	deadline (Ending Date):	2019.6
	<ul> <li>□ Use License No.: SY</li> <li>□ Address: Floor 3, H</li> <li>Shangcheng Campus, Fu</li> <li>Other (please note):</li> <li>◇ Feeding Environment (E</li> <li>Common environment (E)</li> </ul>	Experimental jian Medical Breeding envi	Animal Center, University	nent
	$\diamond$ Feeders (Breeder)			
Housing status of experimental animals (Housing Information)	The feeding personnel is responsible for the mouth, and the laboratory personnel is responsible for the mouth Other personnel are re	sponsible fo	<u>r this task (pleas</u>	e indicate):



auxiliary word for ordinal numbers<sup>2</sup>page

$\diamondsuit$ Please briefly describe the experimental methods, route of
administration, observation indicators, etc. (Briefly describe the study
Me thods, Route of Administration, Observation indexes, et c.): In healthy
breeding period Wistar, 10 female mice weighing 250-260g and the model
group received sodium valproate at E12.5 days (pregnant mice received
intraperitoneal injection at 600mg / kg,
Dissolve in normal saline at 250 mg/ml), the control group was injected in an equal amount of normal saline, and 40 mice were taken,
Divided into experimental group, model group, control group, blank group,
each group of 10, the experimental intervention on day 8, one, times, 10
consecutive days, compare appearance, weight, eye time, water maze
experiment behavioral performance, animals after euthanasia (neck), the
cerebral cortex, bilateral hippocampus, once, indicators.
$\diamondsuit$ Whether causing animal discomfort or pain and corresponding procedures
(Does the study can induce the animal discomfort or pain, if yes, please
describe the treatm ent):
Yes (please specify) 🗹 Don't mouth
Treatment methods: Master the operation skills of intraperitoneal
injection and experimental animals, gentle action, to reduce the
discomfort and pain of experimental animals

 $\diamond$  Description of animal treatment methods after the experiment (Describe Overview of the the anima 1 processing method when the end of the study): experiment Reason / content (Outline use of of continued Study): feeding: Implement the euthanasia of  $\blacksquare$ Summarize the treatment method (including anesthetic name, route, dose, etc., if unconventional method, please explain the reason): Cervical dislocation kills mice on ice, moves quickly, does not cause pain and excitement, and can quickly lead to loss of consciousness and death. Final handling of carcass, or body fluids: tissue, unified handling by the animal center  $\checkmark$ Others (please note)  $\diamond$  If the experiment includes surgical procedures, please briefly describe the anesthesia method, dose, administration method and postoperative care (If the study need to surgery, please describe an esthesia method, dosage, route of administration and postoperative care): no 🗹 Have a mouth  $\therefore$  Procedure name / method: ☆ Anesthesia description: Preanesthesia treatment: Anesthetic administration: Drug Name: Dose: Route of administration: Post-operative management of  $\mathfrak{A}$ : Stay alive for observation (please fill in the content below) Other (please indicate) ☆ Postoperative care: Analgesic drug: Drug name: dosage: Route of administration: Frequency of administration: Anti-infective drug: Drug name:a pharmaceutical or other chemical preparationmeasure: Route of administration: Frequency of administration: Other (please note):

	$\diamond$ List of Ethics Committee (Name of Avoidance member):
Ethics committee members Avoid requirement s (Avoidance Requirement)	
Applicant Statement (Applicant Statement)	<pre>\$\langle\$ statement (Statement): I guarantee that the above contents are true and reliable, and will strictly abide by the above experimental scheme, ensure that the relevant standard operating procedures and relevant national and local laws and regulations during the research process, and be subject to the supervision and inspection of the ethics committee at any time. signFirst Name (Signature): 1010, 2018</pre>
Suppleme ntary Informati on (Addition Document)	

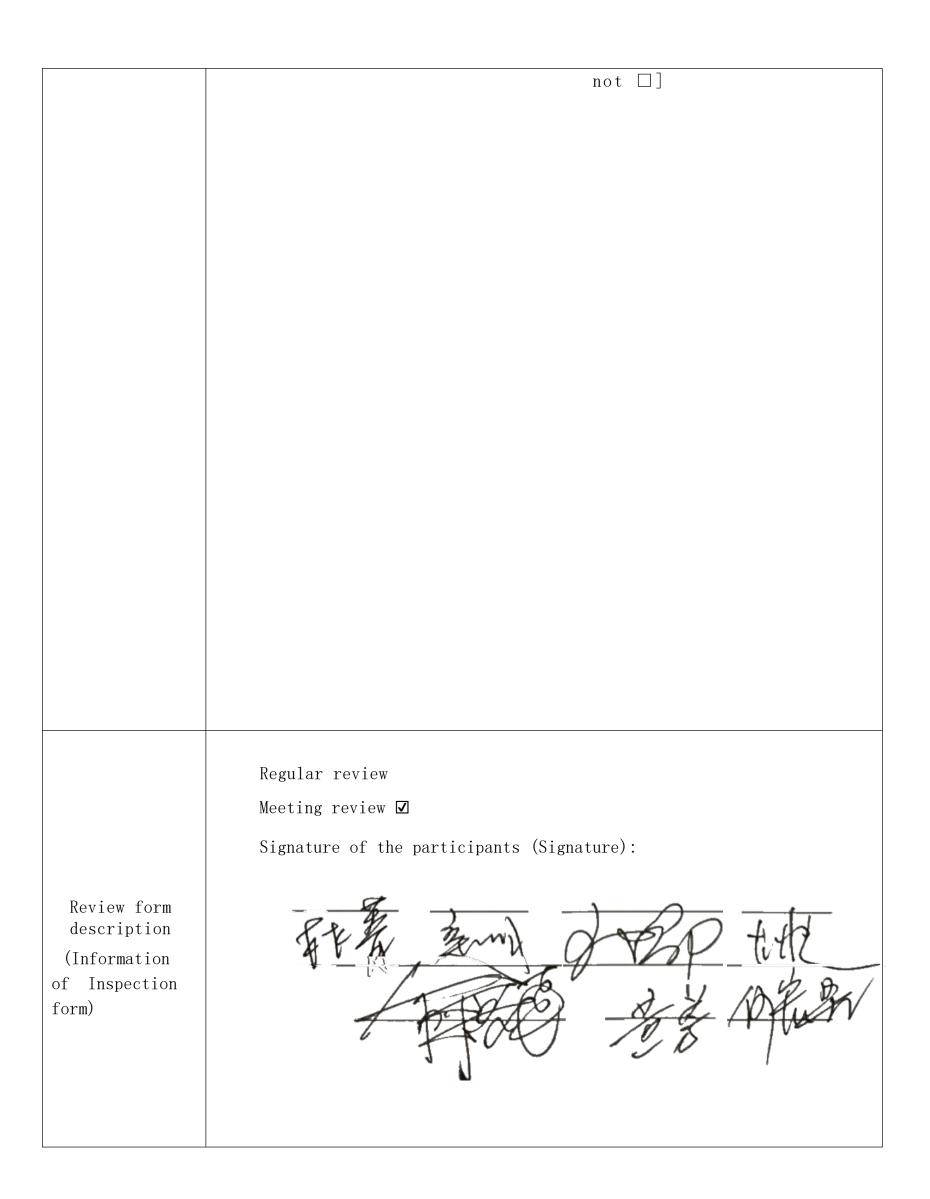
	♦ Opinion of the Director (Comments Director of Laboratory Animal Center): agree (Agree) □ disagree (Disagree)
Review the results (Results of Inspection)	signFirst Name (Signature) びいうへ 上版年_の月24-E

University, Fujian Medical

University

	♦ Meet the following requirements (Docs the study accord with following Requirements):
	Whether the project must be tested with animals, and whether animal alternatives can be used, namely with lower animals
	Replace higher animals, replace vertebrates with non-vertebrates, replace
	whole animals with tissue cells, replace animal experiments with molecula biology, synthetic materials, computer simulation and other non-animal
	experimental methods;
	[☑ inconsistency]
Review the	Whether the varieties, quality grades and specifications of the
content	animals used in this project are appropriate, and whether the quantity of
(Contents of	the animals used can be reduced by improving the design scheme or using
Inspection)	
inspection,	high-quality animals; [☑ inconsistency]
	◆ Whether the project conforms to the animal welfare principles.
	Whether the transportation and feeding in the process of experimental animals can enjoy the most basic rights, enjoy the freedom from hunger an thirst, live comfortable and free, enjoy a good feeding and standardized
	living environment requirements;
	[accord withinconformity []]
	◆ Whether the experimental operation of this project complies with
	the ethical principles of experimental animals, including reasonable
	experimental endpoint, anesthesia protocol, measures to reduce the stress
	pain and injury of experimental animals, and animal treatment and animal
	killing prescription after the end of the experiment
	Case, etc.;
	[accord with ☑ inconformity □]
	$\blacklozenge$ Whether the project fully considers the safety requirements of the employees;
	[☑ not □]
	$\blacklozenge$ Whether the experimental methods and objectives of this project
	meet human moral and ethical
	standards and relevant national
	and international standards.

auxiliary word for ordinal numbers<sup>5</sup>page



auxiliary word for ordinal numbers<sup>5</sup>page

	♦ Opinion of the Laboratory Animal Welfare Ethics Committee (Comments D irector Animal Welfare & Ethics Committe)
	Conse
	nt
	disag
	ree
Review the	adduce:
results (Results of	
Inspection)	
	Signature / seal (Signature / Shanp)
	Dur Ale

#### Fill in the form:

1. Applicants should submit this form before the start of the animal experiments.

2. The applicant should fill in the above contents carefully, carefully and completely.

3. This review form shall be printed in duplicate. After the approval, the Experimental Animal Ethics Committee and the applicant for animal experiment ethics shall leave one copy each.

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<u>4. Send the electronic version to the experimental animal ethics email address:</u> <u>sydwllamail fjmu.edu.cn</u> <u>.</u>