

实验动物中心

Laboratory Animal Resource Center

实验动物中心作为北京脑科学与类脑研究中心的辅助平台之一，为脑中心各实验室和广大实验人员提供实验动物订购，实验动物饲养、繁育，资源共享，活体保种，生物净化，胚胎、精子冷冻与复苏，辅助生殖，兽医医护，质量检测，动物疾病模型制作培训等服务。

实验动物设施包括一期西侧、一期东侧和二期。一期西侧设施于2019年7月12日取得实验动物使用许可证，并已投入使用。一期实验动物设施占地面积约有1500余平米，设有小鼠、大鼠繁育保种室，饲养室，胚胎操作室，手术室，动物实验室，成像室，分子生物学实验室，兽医检测室，安乐死室等功能区。一期东侧将于2021年投入使用，主要以实验功能为主。二期实验动物设施增设非人灵长类实验设施。

中心设有饲养洗消、兽医、胚胎操作、动物模型、设施运行、行政等小组，目前共有23人，全体员工致力于保障实验动物福利伦理，为科学家提供优质的实验动物和动物实验服务。

The Laboratory Animal Resource Center (LARC) is one of the core facilities of CIBR. It provides technical support services in ordering, holding, breeding, conservation and pathogen free rederivation of laboratory animals, sperm and embryo cryopreservation and resuscitation, assistant reproduction, veterinary care, quality inspection, training for animal model construction, etc.

The laboratory animal facility includes west and east side of Phase I and Phase II. The west side of Phase I has obtained the Laboratory Animal Use Permit Approval on July 12, 2019, and has been put into use. Covering an area of over 1,500 square meters, the Phase I animal facility has functional areas including breeding rooms, feeding rooms, embryo operation rooms, operating rooms, animal laboratories, imaging rooms, molecular biology laboratories, veterinary rooms, and euthanasia rooms. The east side of Phase I will be used in 2021, mainly contribute to experiment. There will be additional experimental facilities for non-human primate in the Phase II laboratory animal facilities.

LARC has work groups of husbandry, veterinarians, embryo operation, animal models, facility operation, administration, etc. There are 23 staffs up to now, and everyone is committed to protecting the ethics and welfare of laboratory animals and providing scientists with high-quality laboratory animals and animal experiment services.

服务分工: Division of services:



李文龙 Li Wenlong

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🏠 B1040

◆ 负责实验动物中心全面工作。

To be responsible for the overall work of Laboratory Animal Resource Center.



申锐锐 Shen Ruirui

✉ animalassistant@cibr.ac.cn ☎ 132-6991-3788

🏠 B1039

◆ 订购动物及饲料。

Ordering Animals and Diet.

- ▶ 提供内部繁育的 C57BL/6N, C57BL/6J, (CBA×C57BL/6J) F1, CBA, SJL 小鼠等;

Provide C57BL/6N, C57BL/6J, (CBA×C57BL/6J) F1, CBA, SJL, etc. from CIBR;

- ▶ 动物出口;

Animal export;

- ▶ 从 JAX, RIKEN, KOMP, MMRRRC, TACONIC, 维通利华等国内外机构订购动物。

Ordering animal from JAX, RIKEN, KOMP, MMRRRC, TACONIC, CHARLES, RIVER, etc.

◆ 暂存间。

Temporary Animal Room.

- ▶ 笼盒清洗、消毒灭菌, 笼盒、饲料、水的转运, 提供消毒液等饲养耗材。

Wash, disinfection and sterilization of cages; transfer cages, water and feed to temporary animal room; provide disinfectant, mop, broom and other consumables.



洪杰敏 Hong Jiemin

✉ animalhusbandry@cibr.ac.cn ☎ 185-6819-0678

🏠 B1043

饲养组 Feeding Group

◆ 实验动物饲养繁育;

Breeding and Holding of Animal:

▶ 环境丰荣;

Environmental enrichment;

▶ 换垫料, 换水加饲料;

Cage change, providing food and water in barrier facility;

◆ 实验动物代管。

Animal hosting technology service.



陈亮 Chen Liang

✉ ratredemption@cibr.ac.cn ☎ 171-8010-6647

🏠 B1041



梁小宁 Liang Xiaoning

✉ mouseredemption@cibr.ac.cn ☎ 180-3106-7609

🏠 B1041

胚胎操作 Embryo Operations

◆ 动物辅助生殖。

Animal assisted reproduction.

▶ 体外受精;

In vitro fertilization;

▶ 胚胎移植;

Embryo transplantation;

▶ 小鼠卵巢移植;

Mouse ovarian transplantation.

◆ 小鼠快速扩繁。

Rapid expansion of mice.

▶ 体外受精（小鼠）；

In vitro fertilization (mouse)

▶ 胚胎移植（小鼠）。

Embryo transplantation (mouse).

◆ 生物净化。

Rederivation.

▶ 体外受精（小鼠，大鼠）；

In vitro fertilization (mouse, rat);

▶ 胚胎移植（小鼠，大鼠）；

Embryo transplantation (mouse, rat);

▶ 精子冷冻（小鼠）；

Sperm cryopreservation (mouse);

▶ 胚胎冷冻（小鼠，大鼠）。

Embryo cryopreservation (mouse, rat).

◆ 冷冻与复苏服务。

Cryopreservation and resuscitation.

▶ 精子冷冻与复苏（小鼠）；

Sperm cryopreservation and resuscitation (mouse);

▶ 胚胎冷冻与复苏（小鼠，大鼠）；

Embryo cryopreservation and resuscitation (mouse, rat);

▶ 胚胎移植（小鼠，大鼠）。

Embryo transplantation (mouse, rat).

◆ 卵巢去势，雄鼠结扎。

Ovariectomy, ligation in male.



石杨夏艳 Shiyang Xiayan

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☎ 158-5055-8077

🏠 B1041

共享资源，胚胎操作 Shared Resources, Embryo Operations

◆ 实验动物资源共享和保种。

Shared Resources and Breed Conservation.

▶ 收集常用资源品系；

Collect commonly used genetically modified strains in CIBR;

▶ 提供常用资源品系活体动物及基因型鉴定 protocol；

Provide commonly used genetically modified strains in CIBR and the protocol of genotyping;

▶ 复苏不常用品系的精子或胚胎。

Embryo and sperm resuscitation of uncommonly used strains.



何晓亚 He Xiaoya

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🏠 B1041

设施运行 Animal Facility operation

◆ 实验动物设施运行。

Animal Facility operation.

▶ 维修、保养；

Maintenance;

▶ 实验动物从业人员上岗证培训；

Training for the certificate of laboratory animal practitioners;

▶ 设施使用培训，包括实验动物繁育技术、实验动物健康及实验动物福利伦理；

Training for laboratory animal facility using, including the animal breeding technology, animal health, the welfare and ethics of laboratory animal;

▶ 环境检测。

Environmental test.



郭彤 Guo Tong

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🏠 B1041

动物模型 Animal model

◆ 动物疾病模型手术培训

Training for the animal disease model surgery

▶ 脑立体定位手术培训

Training for stereotaxic surgery

▶ 小鼠联体共生手术培训

Training for parabiosis in mice

▶ 大脑中动脉栓塞模型手术培训（大鼠、小鼠）

Training for middle cerebral artery occlusion surgery (Rat, mouse)

▶ 小鼠左心室注射培训

Training for Intracardiac Inoculation in mouse

▶ 注射培训：灌胃，皮下，腹腔，皮内，肌肉，尾静脉

Training for administration: intragastric, subcutaneous, intraperitoneal, intracutaneous, intramuscular, tail vein injection"

▶ 采血培训：眼眶静脉丛，摘眼球，下颌，心脏

Training for blood collection: retroorbital sinus, eyeball extirpation, submandibular, cardiac puncture

▶ 基因型鉴定培训

Training for genotyping

▶ 小动物活体成像及脑立体定位仪器预约

Reserving apparatus for in vivo imaging and stereotaxic

▶ 小鼠胚胎电转、颈上神经节结扎、眼球注射

In utero electroporation in mice,
superior cervical ganglionectomy, Intravitreal Injection



宋明彤 Song Mingtong

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🏠 B1041

小鼠及暂存间兽医服务 Mouse and temporary animal room

◆ 兽医服务。

Veterinary Services.

▶ 健康巡视及兽医医护；

Health checks - following up on checks and prescribing treatments;

▶ 质量检测及出具健康报告；

Detection of virus, bacteria, ectoparasites and endoparasites;
and provide animal health report;

▶ 暂存间巡视。

Checking of animals and cage conditions.

◆ 实验动物福利伦理审查。

Review of Animal Welfare and Ethics.

▶ 实验动物福利伦理审查；

Review of Animal Welfare and Ethics;

▶ 实验动物福利伦理检查。

Inspection of laboratory welfare and ethic.



赵亚男 Zhao Yanan

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🏠 B1041

大鼠兽医服务 Rat veterinarian

◆ 兽医服务。

Veterinary Services.

▶ 健康巡视及兽医医护；

Health checks - following up on checks and prescribing treatments;

▶ 质量检测及出具健康报告；

Detection of virus, bacteria, ectoparasites and endoparasites;

and provide animal health report;

服务工作流程图: Service workflow:

实验动物饲养繁育 (洪杰敏- B1043) Breeding and Holding of Animal (Hong Jiemin, Zhang Fengzu-B1043)

委托饲养 Animals hosting technology service

实验室将需求抄送PI和实验动物中心主任发至以下邮箱联系人: 洪杰敏、张峰祖animalhusbandry@cibr.ac.cn
The laboratory should send the demand to animalhusbandry@cibr.ac.cn, and copy to your own PI and the director of laboratory animal resource center. Contact: Jiemin Hong, Fengzu Zhang;

配备专门的饲养员
We provide special animal husbandry staff

及时沟通
Timely communication if have any problems

动物订购 (申锐锐 - B1039) Animal ordering (Shen Ruirui-B1039)

常规品系 Conventional strain

动物订购单统一以邮件发送并抄送给PI和实验动物中心主任的形式发送至 animalassistant@cibr.ac.cn;
The animal order form is sent by email and copied to PI and the director of laboratory animal resource center to animalassistant@cibr.ac.cn;

订单提交截止时间为每周三上午11:00 周四动物到达 (节假日提前通知);
The deadline for order submission is every Wednesday at 11:00 am and the animals arrive on Thursdays (notice in advance during holidays);

动物到货后统一由实验动物中心行政助理接收, 接收动物后及时通知实验人员
After the animals arrive, the administrative assistants of the Laboratory Animal Resource Center will receive them, and the experimental staff will be notified in time after receiving the animals

由实验人员放置动物并检查动物的数量、状态等, 若放置动物过程中发现动物质量不合格或不满足要求, 应在动物到达24小时内与实验动物中心沟通
The animal is placed by the laboratory personnel. If the quality of the animal is found to be unqualified or does not meet the requirements during the placement of the animal, the animal should be communicated with the experimental animal center within 24 hours of the animal's arrival

JAX/ 基因修饰动物订购 (申锐锐 - B1039)

JAX/Genetically Modified Animal Order (Shen Ruirui-B1039)

JAX/基因修饰动物订购单电子版统一以邮件发送并抄送PI和实验动物中心主任的形式发送至animalassistant@cibr.ac.cn。
The electronic version of the JAX/Genetically Modified Animal Order Form shall be sent by mail and sent to animalassistant@cibr.ac.cn as a copy of PI and the director of laboratory animal resource center.

实验室确认报价单及合同
The laboratory confirms the quotation and contract

向供应商付款
Pay to the supplier

动物订购完成后, 动物订购后续进展情况实验动物中心行政助理会以邮件的形式发给订购人员并抄送其相关实验室PI
After the animal order is completed, the follow-up progress of the animal order will be sent to the administrative assistant of the Laboratory Animal Center and copied to the PI of the relevant laboratory

动物到货前一周,实验动物中心行政助理会以邮件的形式通知实验人员, 接收到动物后通知实验人员放置动物并检查动物一般状态
One week before the arrival of the animals, the administrative assistant of the Laboratory Animal Center will notify the experimenters by email. After receiving the animals, they will notify the experimenters to place the animals and check the general state of the animals

实验人员对订购的动物进行基因型鉴定, 鉴定完成后, 如有问题, 通知实验动物中心行政助理, 实验动物中心行政助理给供应商反馈问题, 并要求相应赔付
The experimenter shall perform the genotype identification of the ordered animals. After the genotyping is completed, if there is any problem, notify the administrative assistant of the laboratory animal center, and the administrative assistant of the laboratory animal center will give feedback to the supplier and request corresponding compensation.

门禁授权 (申锐锐 - B1039)

Access authorization (Shen Ruirui-B1039)

具有实验动物从业上岗证。
Possess a certificate of employment in laboratory animals.

在实验动物福利伦理审查名单中。
In the laboratory animal welfare ethics review list.

参加实验动物中心组织的理论培训并通过考核。发送《门禁授权申请表》至animalassistant@cibr.ac.cn并抄送相应实验室PI。
Participate in the theoretical training organized by the Experimental Animal Center and pass the assessment. Send the "Access Control Authorization Application Form" to animalassistant@cibr.ac.cn and copy to the corresponding laboratory PI.

实验动物中心安排进入屏障理论培训并通过考核。
The Laboratory Animal Center arranges entry barrier theory training and passes the assessment.

培训结束, 办理门禁授权。
After the training is over, apply for access control authorization.

实验动物中心技术培训流程（郭彤 - B1041）

The process of technical training in LARC (Guo Tong-B1041)

发送邮件至animaltechnicalsupport@cibr.ac.cn, 抄送部门负责人及实验动物中心主任;
Send an email to animaltechnicalsupport@cibr.ac.cn and copy to the director of the department and director of the Laboratory Animal Resource Center (liwenlong@cibr.ac.cn);

实验动物中心24h内回复邮件: 培训人及联系方式、培训时间及培训地点;
The Laboratory Animal Resource Center will reply the email within 24 hours: including the trainer, the contact, the time and place;

按照约定时间进行培训;
The training will be carried out in accordance with the agreed time;

培训结束。
End.

实验动物中心仪器预约流程（郭彤 - B1041）

The process of apparatus reservation in LARC (Guo Tong-B1041)

获得实验动物中心门禁权限;
Obtain the access authority of the laboratory animal facility;

申请仪器使用: 发送邮件至animaltechnicalsupport@cibr.ac.cn, 抄送部门负责人及实验动物中心主任
(liwenlong@cibr.ac.cn);
Application for the use of the instrument: Send an email to animaltechnicalsupport@cibr.ac.cn, and copy to the director of department and the director of the Laboratory Animal Resource Center (liwenlong@cibr.ac.cn);

实验动物中心查收邮件, 安排时间对申请人进行仪器使用的培训及考核;
The Laboratory Animal Resource Center checked the email, arranged time for the training and test of the apparatus usage;

实验动物中心24h内通过邮件形式反馈培训及考核的具体事项;
The Laboratory Animal Resource Center will reply the email within 24 hours: including the trainer, the contact, the time and place;

按照约定时间进行培训考核, 考核通过后取得仪器预约使用权限。
The training will be carried out in accordance with the agreed time. After passing the test, the apparatus can be authorized to make reservation.

实验动物中心空间使用预约流程（郭彤 - B1041）

The process of space reservation in laboratory animal facility (Guo Tong-B1041)

获得实验动物中心门禁权限及申请使用房间的门禁权限;
Obtain the access authority of the laboratory animal facility and the room applied;

空间预约。
Space reservation.

实验动物进入流程 (宋明彤 - B1041)

Service process for the entrance of laboratory animal (Song Mingtong-B1041)

由实验室动物管理员发送《基因修饰动物进入申请表》\《暂存间新进动物申请表》至animalassistant@cibr.ac.cn并抄送相应实验室PI;

The laboratory animal manager should send "Application Form for Entry of Genetically Modified Animals" \ "Application Form for New Entry of Temporary Room Animals" to animalassistant@cibr.ac.cn and copy the corresponding laboratory PI;

实验动物中心主任与兽医审批通过后, 动物方可进入动物设施;

After the approval of the director and veterinarian of the Laboratory Animal Center, animals can enter the animal facility;

动物进入后, 兽医会在1-2个工作日对动物进行抽样检测, 检测结果出来之前尽量不要打开动物笼盒;

After the animals enter, the veterinarian will conduct sampling tests on the animals within 1-2 working days. Try not to open the cage before the test results come out;

如果动物质量有问题, 兽医将通过邮件通知实验室。

If there is any problem with the quality, the Veterinarian will inform the laboratory.

实验动物转出动物设施 (宋明彤 - B1041)

Laboratory animals transfer out of animal facility (Song Mingtong-B1041)

实验动物中心动物设施间转运。需填写《转鼠申请表》, 兽医同意后方可转出;

Transfer animals between laboratory animal center facilities. Please fill in the "Application Form for Animal Transfer "; and you can transfer with the consent of veterinarian;

动物屏障内部转运。需填写《转鼠申请表》, 兽医签字同意后, 将申请表发送给相应房间饲养技术员, 饲养技术人员核对信息后动物方可转入。

Transfer within the animal barrier. Please fill in the "Application Form for Animal Transfer ", and veterinarian will sign the application form and send it to the feeding technician in the corresponding room. The animal can be transferred after the breeding technician checks the information.

动物福利伦理审查 (宋明彤 - B1041)

Welfare and Ethics Review in Laboratory Animals (Song Mingtong-B1041)

仅涉及各类项目（基金）申报的动物福利伦理申请：
Application for animal welfare ethics involving the projects (funds) to be declared

申请人填写动物福利伦理相关承诺书，邮件发送至 iacuc@cibr.ac.cn；
The applicant fills in the letter of commitment related to animal welfare ethics and sends it to iacuc@cibr.ac.cn;

实验动物福利伦理委员会主席和秘书审查通过后开具相关动物福利伦理审查证明；
The chairman and secretary of Laboratory Animal Welfare and Ethics Committee will issue the relevant animal welfare ethics review certificate after the review is approved;

涉及具体动物实验、文章发表等的动物福利伦理申请：
Application for animal welfare ethics involving animal experiments and article publication:

申请人填写《实验动物福利伦理审查表》，邮件发送至 iacuc@cibr.ac.cn；
The applicant should fill in the form Welfare and Ethics Review in Laboratory Animals and send it to iacuc@cibr.ac.cn;

委员会秘书做格式审查，申请人根据修改意见进行修改后提交至 iacuc@cibr.ac.cn；
The secretary of Laboratory Animal Welfare and Ethics Committee will review the format, and the applicant will submit the revision to iacuc@cibr.ac.cn according to the revision opinions;

格式审查通过后由福利伦理委员会各委员审查，申请人根据审查意见修改后再次提交《实验动物福利伦理审查表》；
After the format is approved, it will be reviewed by the members of Laboratory Animal Welfare and Ethics Committee. The applicant shall submit the form again after modification according to the review opinions.

委员会审查无误后颁发动物福利伦理批准号。
The committee will issue the animal welfare ethics approval number (AP) after the examination.

实验动物设施运行 (何晓亚 - B1041)

Animal Facility operation (He Xiaoya-B1041)

实验动物培训与考核
Animal training and assessment

每季度末实验动物中心会组织实验动物培训与考核并发布通知，用于实验人员、实验室与辅助平台工作人员申请实验动物设施门禁。需要申请门禁的人员请提前参加实验动物培训与考核，以便快速办理门禁授权。如需参加，请留意实验动物中心发布的邮件通知。
At the end of each quarter, the Laboratory Animal Center will organize experimental animal training and assessment and issue notices for experimenters, laboratory and auxiliary platform staff to apply for access control to experimental animal facilities. Those who need to apply for access control should participate in the laboratory animal training and assessment in advance to quickly apply for access control authorization. To participate, please pay attention to the email notification issued by the Laboratory Animal Center.

设施环境检测 (何晓亚 - B1041) Facility environmental testing (He Xiaoya-B1041)

实验动物中心可以提供简单的环境检测，检测指标包括：温度、湿度、噪声、照度、风速、房间换气次数、相邻区域静压差、氨浓度、空气洁净度、紫外照度、房间高效过滤器检漏等。如需检测，请发送邮件至 animalfacilitymaintenance@cibr.ac.cn 并抄送实验动物中心主任。
The laboratory animal center can provide simple environmental testing. The testing indicators include: temperature, humidity, noise, illuminance, wind speed, room ventilation times, static pressure difference in adjacent areas, ammonia concentration, air cleanliness, ultraviolet illuminance, and room efficiency Filter leak detection, etc. For testing, please send an email to animalfacilitymaintenance@cibr.ac.cn and copy to the director of the Laboratory Animal Center.

基因型鉴定 Genotyping

发送所需鉴定的样品信息至 animaltechnicalsupport@cibr.ac.cn 并抄送 PI、实验动物中心主任。样品信息应包含样品编号、需鉴定的基因型名称、引物序列、PCR 程序等。
Send the sample information required for genotyping to animaltechnicalsupport@cibr.ac.cn and copy it to PI and the director of the Laboratory Animal Center. The sample information should include sample number, genotype name to be identified, primer sequence, PCR program, etc.

待实验动物中心邮件回复接受后，将样品送至实验动物中心。
After the experimental animal center's email reply is accepted, send the sample to the Laboratory Animal Resource Center of CIBR.

共享资源申领流程 (石杨夏艳 - B1041) Process For Getting Shared resource (Shiyang Xiayan-B1041)

申领人填写《实验动物订购单》发送至 animalresource@cibr.ac.cn 并抄送 PI。
The applicant fills in the "Experimental Animal Order Form", which should be sent to animalresource@cibr.ac.cn and PI, subsequently.

资源管理人收到邮件后，告知申领人该品系保种状态（包括活体、冻精、冻胚）。同时，申领人需要向该品系的贡献人征求使用许可，得到许可后方可进行下列步骤。
The resource manager will inform the applicant of the preservation status of the strain (including live, frozen sperm, and frozen embryo) when the email is read. Simultaneously, the applicant needs to get permission from the donor of the strain before use it, and the following steps can only be performed after obtaining the permission.

若申领品系为活体保种，则资源管理人填写《动物转房间申请表》，将该表发送邮件至兽医等待审核，审核通过后方可进行转鼠。若为非活体保种，则申领人需要填写《LARC 胚胎 / 精子复苏申请表》发送至 mouserederivation@cibr.ac.cn 并抄送 PI，便可安排胚胎 / 精子复苏实验。
If the strain applied for is a live species preservation, the resource manager should fill in the "Application Form for Animal Transfer to Room" and send the form to the veterinarian for review. Only after the review is passed, can the mouse be transferred. If it is non-living, the applicant needs to fill in the "LARC Embryo/Sperm Resuscitation Application Form" and send it to mouserederivation@cibr.ac.cn and PI, then the embryo/sperm resuscitation experiment can be arranged.

大鼠胚胎操作 (陈亮 - B1041) Rat Embryo Manipulation (Chen Liang-B1041)

大鼠生物净化。 Purification of rats.

由实验室动物管理员发送《大鼠生物净化申请表》至 ratredemption@cibr.ac.cn 并抄送相应实验室PI; Application Form for Biological Purification of Rats should be sent to ratredemption@cibr.ac.cn by the laboratory animal manager And copy the corresponding laboratory PI;

胚胎组安排净化;
Purification was arranged for the embryo group;

出生后的幼鼠剪尾, 交予实验人员做基因型鉴定;
After birth, the tail of the young mice was cut off and handed over to the experimenter for genotype identification;

实验人员反馈基因型鉴定结果后淘汰野生型, 阳性鼠交予实验人员。
After the feedback of genotype identification results, the wild type was eliminated and the positive mice were handed over to the experimenter.

大鼠胚胎冷冻。 Rat embryos were frozen.

由实验室动物管理员发送《大鼠胚胎冷冻申请表》至 ratredemption@cibr.ac.cn 并抄送相应实验室PI; Application Form for Rat Embryo Freezing should be sent to ratredemption@cibr.ac.cn by the laboratory animal manager;

胚胎组安排实验进行胚胎冷冻;
The embryo group arranged the experiment to freeze the embryos;

复苏验证, 出生后幼鼠尾交予实验人员做基因型鉴定;
Resuscitation verification. After birth, the tail of the young mice was handed over to the experimenter for genotype identification;

实验人员反馈结果后, 填写复苏验证记录。
After the experimenter feedback the result, fill in the resuscitation verification record.

大鼠胚胎复苏。 Resuscitation of rat embryos.

由实验室动物管理员发送《大鼠胚胎复苏申请表》至 ratredemption@cibr.ac.cn 并抄送相应实验室PI; The Rat Embryo Resuscitation Application Form should be sent by the laboratory animal manager to ratredemption@cibr.ac.cn And copy the corresponding laboratory PI;

胚胎组安排实验进行胚胎复苏并移植;
The embryo group arranged experiments for embryo resuscitation and transplantation;

出生后的幼鼠剪尾, 交予实验人员做基因型鉴定;
After birth, the tail of the young mice was cut off and handed over to the experimenter for genotype identification;

实验人员反馈基因型鉴定结果后, 阳性鼠交予实验人员。
After the experimenter feedback the genotype identification results, the positive mice were handed over to the experimenter.

小鼠胚胎操作 (梁小宁 - B1041) Mouse Embryo Manipulation (Liang Xiaoning-B1041)

小鼠生物净化。 Biological purification of mice.

由实验室动物管理员发送《小鼠IVF生物净化申请表》至mouserederivation@cibr.ac.cn并抄送相应实验室PI;
The laboratory animal manager shall send Application form for biological purification of mice to mouserederivation@cibr.ac.cn and copied to the PI;

胚胎组安排净化实验;
Biological purification is arranged by the embryo group;

净化出生小鼠鼠尾交由实验室动物管理员鉴定;
The tail of purified born mice was identified by the laboratory animal manager;

实验室动物管理员将基因型鉴定结果反馈给胚胎组;
The laboratory animal manager feeds the results of genotype identification back to the embryo group;

胚胎组根据基因型鉴定结果将阳性小鼠转至实验室相应饲养间;
According to the genotype identification results, the positive mice were transferred to the corresponding holding room in the laboratory get through the embryo group;

若净化效果不佳,则重新安排净化。
If the purification effect is defeated, rearrange the purification.

小鼠精子/胚胎冷冻。 Cryopreservation of mice sperm/embryo.

由实验室动物管理员发送《小鼠精子冷冻申请表》/《小鼠胚胎冷冻申请表》至mouserederivation@cibr.ac.cn并抄送相应实验室PI;
The laboratory animal manager shall send. The application for cryopreservation of mice sperm/The application for cryopreservation of mice embryo to mouserederivation@cibr.ac.cn and copied to the PI;

胚胎组安排冷冻实验;
Cryopreservation were arranged by the embryo group;

复苏验证,验证出生的小鼠鼠尾交由实验室动物管理员鉴定;
Verification of resuscitation, verification of the birth of the mouse tail to the laboratory animal manager identification;

实验室动物管理员将基因型鉴定结果反馈给胚胎组;
The laboratory animal manager feeds the results of genotype identification back to the embryo group;

若冷冻效果不佳,则重新安排冷冻。
If Cryopreservation effect is defeated, rescheduling the Cryopreservation.

**小鼠精子/胚胎复苏。
Resuscitation of mice sperm/embryo.**

由实验室动物管理员发送《小鼠胚胎（精子）复苏申请表》至mouserederivation@cibr.ac.cn并抄送相应实验室PI；
The laboratory animal manager shall send The application for resuscitation of mice spam (embryos) cryopreservation to mouserederivation@cibr.ac.cn and copied to the PI;

胚胎组安排复苏实验；
Resuscitation;

复苏出生小鼠鼠尾交由实验室动物管理员鉴定；
The tail of resuscitated mice was identified by the laboratory animal manager;

实验室动物管理员将基因型鉴定结果反馈给胚胎组；
The laboratory animal manager feeds the results of genotype identification back to the embryo group;

胚胎组根据基因型鉴定结果将阳性小鼠转至实验室相应饲养间；
According to the genotype identification results, the positive mice were transferred to the corresponding holding room in the laboratory get through the embryo group;

若复苏效果不佳，则重新安排复苏。
If the recovery is defeated, rescheduling the recovery.

小鼠卵巢移植（梁小宁 - B1041）

Ovary transplantation of mice (Liang Xiaoning-B1041)

由实验室动物管理员发送需求至mouserederivation@cibr.ac.cn并抄送相应实验室PI和实验动物中心主任；
The laboratory animal manager shall send demand to mouserederivation@cibr.ac.cn and copied to the PI and the director of LARC;

胚胎组安排实验进行卵巢移植；
The embryo group arranged the ovary transplantation;

卵巢移植恢复按照PI需求进行合笼交配，出生小鼠鼠尾交由实验室动物管理员鉴定；
Mating with the males according to the requirements when the mouse recovery from ovary transplantation. The tails of newborn mice after ovary transplantation were identified by the laboratory animal manager;

实验室动物管理员将基因型鉴定结果反馈给胚胎组；
The laboratory animal manager feeds back the results of genotyping to the embryo group;

胚胎组根据基因型鉴定结果将阳性小鼠交给实验室动物管理员。
According to the results of genotyping, the embryo group give the positive mice to the laboratory animal manager.

小（大）鼠绝育（梁小宁 - B1041）

Sterilization of small (large) mice (Liang Xiaoning-B1041)

由实验室动物管理员发送需求至mouserederivation@cibr.ac.cn并抄送相应实验室PI和实验动物中心主任；
The laboratory animal manager shall send demand to mouserederivation@cibr.ac.cn and copied to the PI and the director of LARC;

胚胎组安排实验；
The embryo group arranged the experiment;

胚胎组将绝育后的小鼠交给实验室动物管理员。
The embryo group gave the sterilized mice to the laboratory animal manager.

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