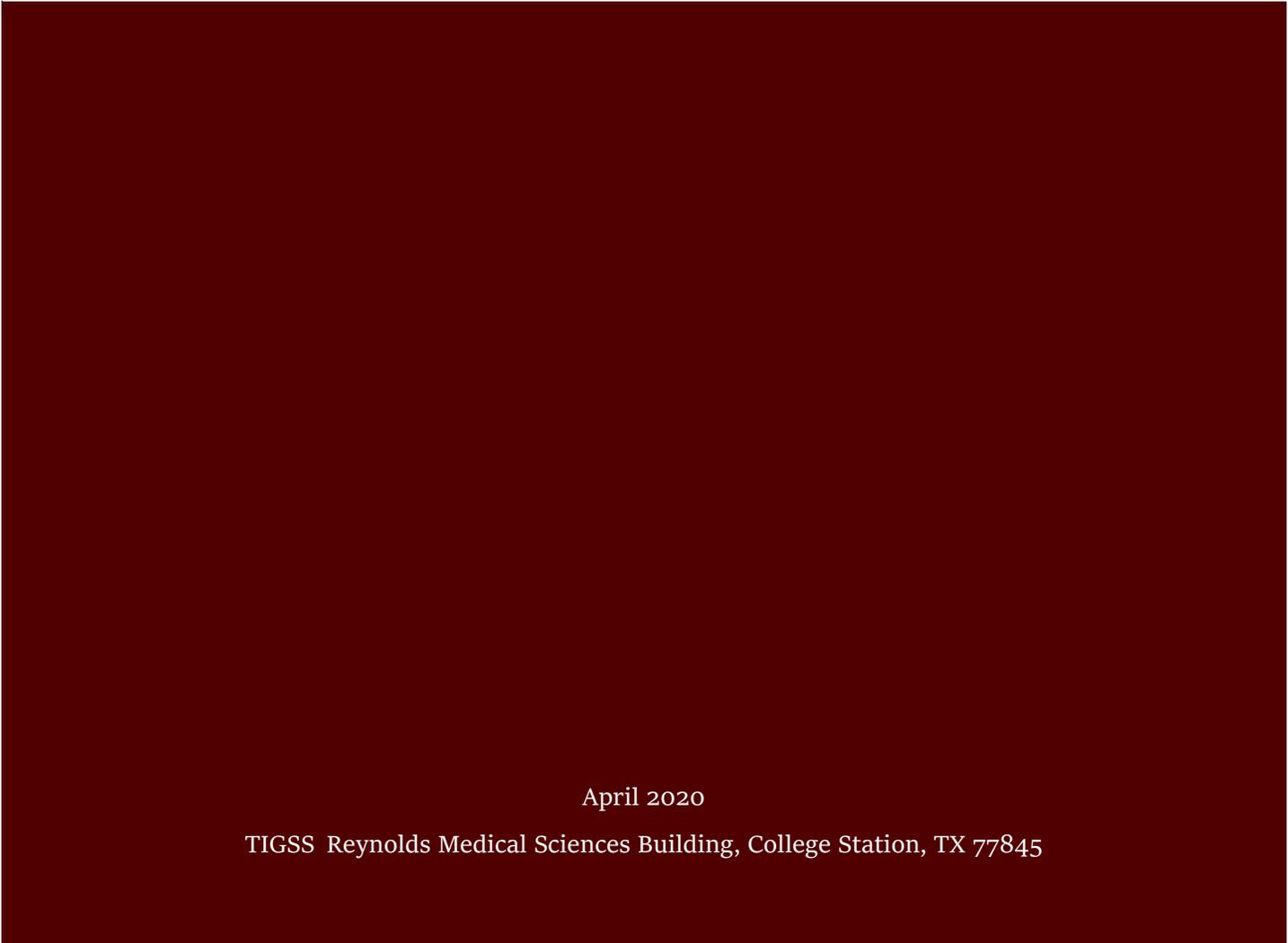




# RODENT PRECLINICAL PHENOTYPING CORE MANUAL

April 2020

TIGSS Reynolds Medical Sciences Building, College Station, TX 77845



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## **From the Desk of our Associate Director**

**The Rodent Preclinical Phenotyping Core is a branch of the Texas A&M Institute for Genomic Sciences and Society – or TIGSS. TIGSS functions as a virtual institute to unite and support scientists and trainees with cutting-edge like sciences and biomedical research technologies to improve human, animal, and environmental well-being.**

**The purpose of our core is to provide investigators with the resources necessary to study the effects of genetic, biotic, and environmental agents across a population, by using the murine model.**

**With our extensive experience in preclinical phenotyping using a variety of mouse and other small animal models, we can help guide you at every step in your translational research. At the planning stages, we provide consulting to determine the optimal behavioral, physiological and molecular assays to address your research goals.**

**We maintain a wide suite of equipment supporting metabolic, skeletomuscular, immune, cardiovascular, behavioral, cancer and molecular assays for detailed phenotyping of animal models and provide access for generating preliminary data for new grant applications. We also provide access to a unique mouse genetic reference population, the collaborative cross which enables investigations into the genetic bases of health and disease-related traits and environmental responses.**

**On behalf of the entire TIGSS family, thank you for becoming a member of the RPPC.**

**Best Wishes,**

**Dr. Alexandra Trott Associate Director**

**TIGSS | Rodent Preclinical Phenotyping Core**

# Terms & Conditions

## Applicability

- These terms and conditions for services (these “Terms”) are the only terms that govern the services to be provided by the Texas Institute for Genome Sciences and Society (TIGSS) at its Rodent Preclinical Phenotyping Core (“RPPC”) for parties requesting services from the RPPC (“User”).
- The accompanying project description (the “Project Description”) and these Terms comprise the entire agreement between the parties, and supersede all prior or contemporaneous understandings, agreements, negotiations, representations and warranties, and communications, both written and oral. In the event of any conflict between these Terms and the Project Description, these Terms shall govern, unless the Project Description expressly states the terms and conditions of the Project Description shall control
- These Terms prevail over any of User’s general terms and conditions regardless whether or when User has submitted its request for proposal, purchase order, or such terms. Provision of services to User does not constitute acceptance of any of User’s terms and conditions and does not serve to modify or amend these Terms.

## Services

- RPPC shall provide services to the User as described in the Project Description (the “Services”) in accordance with these Terms.

## Compliance

- User acknowledges their own responsibility to submit their AUP protocols to TAMU IACUC.
- Additionally, the RPPC requires all users submit their AUP protocols to our core as well before any reservations can be made. It is necessary for our core to have that information on records because animal care services are provided to the RPPC by Texas A&M University (“TAMU”), TAMU’s Institutional Animal Care and Use Committee (“IACUC”).

### **Scheduling of Service Delivery**

- Services will not be scheduled at the RPPC until AUP and IACUC approvals have been received. Once AUP and IACUC approvals have been obtained, the User and RPPC shall agree to a delivery schedule. RPPC shall take reasonable efforts to adhere to the schedule, but User acknowledges that circumstances may arise that could cause changes to the schedule. It is the policy of RPPC to not schedule Services until the User has issued a PO or provided a funding account for Services.

### **User's Obligations**

- While obtaining Services from RPPC, User shall:
  1. Cooperate with the RPPC in all matters relating to the Services.
  2. Respond promptly to any RPPC requests to provide information, direction, approvals, decisions, or authorizations that are reasonably necessary for RPPC to perform Services in accordance with the requirements of this Agreement;
  3. Provide such User materials or information as requested by RPPC to carry out the Services in a timely manner and ensure that such User materials or information are complete and accurate in all material aspects;
  4. Obtain and maintain all necessary licenses and consents and comply with all applicable federal, state, and local laws and regulations including but not limited to the Public Health Service Policy on Humane Care and Use of Laboratory Animals, Guide for the Care and Use of Laboratory Animals, and the Animal Welfare Act;
  5. Comply with all applicable TAMU and RPPC policies with respect to the Services.

### **Termination**

- Upon written request at any time from User, RPPC will cease performing Services. Fees will be invoiced and are due and payable for any services performed prior to the notice of termination, and for services that cannot be avoided as of the termination date.

## **Fees and Payment Terms**

- In consideration of the Services provided by RPPC and the rights granted to User under this agreement, User shall provide payment to RPPC as set forth in the Project Description. Fees are due and payable when Services have been performed and invoiced. User agrees to provide payment within thirty (30) days from invoice date.

## **Confidentiality**

- TAMU and RPPC policies on intellectual property and on research misconduct establish that research and research data at RPPC is to be protected from intentional and unintentional disclosure.
- Samples, products derived from samples, data obtained from analysis of the samples, and data and analyses obtained from and by User shall be considered confidential, and shall not be shared, published, reanalyzed, reprocessed, or in any other way shared or used for additional analyses without User's express written consent.
- **Confidentiality Clause:**
  1. <https://financeits.tamu.edu/resources/protecting-confidentialinformation/>

## **Publication and Intellectual Property Matters**

- Publications describing research that takes place at the RPPC or containing data collected from RPPC equipment shall include the following statement in the acknowledgement section of the paper: "Use of the Texas A&M Rodent Preclinical Phenotyping Core is acknowledged."
- Expectations for co-authorship for RPPC personnel should be discussed with the associate director of the RPPC when significant intellectual input or special effort is put into the project. Efforts recommending coauthorship include the following:
  1. Conception, design of project, critical input, or original ideas
  2. Acquisition of data, analysis and interpretation, beyond routine practices
  3. Draft the article or revise it critically for intellectual content

4. Write a portion of the paper
5. Approval of the final version of the paper to be published - RPPC acknowledges and agrees that the Services it provides to User are work for hire and RPPC claims no ownership of any intellectual property arising from or related to its performance of the Services.

### **Data Retention**

- Users are responsible for their project data (“Data”) generated from Services. Users should bring a USB drive or external hard drive to promptly transfer and store Data. Upon RPPC approval, Data may be stored for up to 1 month and may be deleted without notice to Users. RPPC is not responsible for loss of Data.
- Users will not download or upload programs or files onto RPPC equipment without RPPC approval. Users doing so will have their access restricted. RPPC computers and equipment will not be used for any other purpose than what is in the Project Description.

### **Warrant and Limitation of Liability**

- You understand the RPPC, TIGSS, and Texas A&M University are not responsible for any indirect, or direct harm incurred by you while using the equipment or while in the facilities.
- This would include, but is not limited to:
  - A) Any loss of data, goods, or experimental equipment. Or the damage of such equipment.
  - B) Any loss of prestige – whether it be institutional or in your field of study.
  - C) Any loss or impairment physically which could have occurred while in the RPPC facility.
- Furthermore, these limitations of liability apply whether or not you have been made aware of these rules and regulations, and whether or not you have been made.
- Only the limitations or exclusions of liability lawful in your jurisdiction, such as any loss or damage caused with intent to do harm or negligence may apply.

- The RPPC, TIGSS, and Texas A&M University's liability will be limited by the maximum extent to which the law permits.

-

### **Relationship of the Parties**

- The relationship between the parties is independent of contractors. Nothing contained in these Terms shall be construed as creating any agency, partnership, joint venture or other form of joint enterprise, employment or fiduciary relationship between the parties, and neither party shall have authority to contract for or bind the other party in any manner whatsoever.

### **Governing Law**

- All matters arising out of or relating to the relationship between the parties shall be governed by and construed in accordance with the law.
- You acknowledge and agree that any and all disputes, claims, and causes of action arising out of, or in connection with, in whole or in part, your use of the Website shall be resolved individually, without resort to any form of class action, and exclusively by a court of competent jurisdiction located in Brazos County, Texas.
- All issues and questions concerning the construction, validity, interpretation, and enforceability of these Terms of Use, your rights and obligations, or the rights and obligations of the College of Geosciences or Texas A&M University shall be governed by, and construed in accordance with, the laws of Texas, without giving effect to any choice of law or conflict of law rules (whether of Texas or any other jurisdiction), which would cause the application of the laws of any jurisdiction other than Texas.

# Gaining Access to the RPPC Facilities

## General RPPC Guidelines

- The RPPC has general guidelines which must be adhered to while within our facilities. The CORE guidelines can be remembered using the following acronym.

**C**lean your workspace at the end of your reservation with the appropriate cleaning reagent.

**O**nly go into a facility room during your scheduled time.

**R**emain with your mice at all times. Mice should never be left unattended in rooms before an experiment. Place a “Do Not Disturb” sign on the outside of the door upon entering a facility room for one’s scheduled reservation.

**E**nable others to conduct their research peacefully. Keep noise to a minimum within the hallway as to not disturb other experiments.

## Card Access to LARR

- To gain card access to LARR, a user must go to the main office and request an appointment to both the LARR led orientation and animal handling classes.
- The LARR Orientation Class is held once per week, while the Animal Handling Workshop is held bi-monthly.
- The dates of these classes vary, and the classes must be completed in person

## Card Access to the RPPC Hallway

- To gain access to the RPPC Hallway, submit a request to [atrott@tamu.edu](mailto:atrott@tamu.edu) with your full name, UIN and AUP number.

- The RPPC will find a time that works with your schedule to give to you a brief tour of the RPPC Hallway and our expectations while using our facilities.

### **Card Access to Reynolds**

- The RPPC has additional equipment in our Reynolds Suite #473
- Reynolds is open to the public during normal business hours (9-5 PM) from Monday to Friday.
- If, for whatever reason, you need to access this equipment during the weekend or after business hours, submit a request to [atrott@tamu.edu](mailto:atrott@tamu.edu)

### **Equipment Location and Parking**

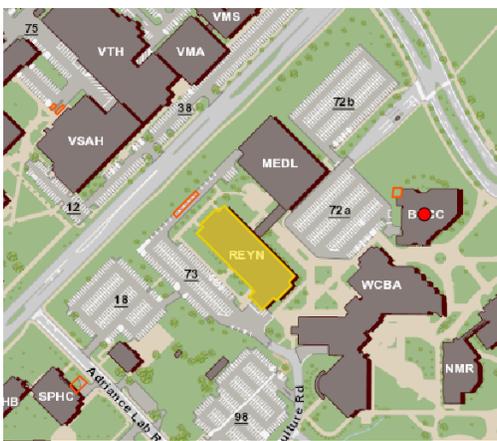
- The RPPC houses equipment at three separate sites:
  - LARR
    - **Behavioral/Seletomuscular Suite**
      - Coulbourn Habitest System
      - DigiGait
      - EchoMRI
      - Grip Strength
      - Noldus Barnes Maze
      - Noldus Radial Maze
      - Noldus Open Field
      - Noldus Three Chamber Sociability
      - RotaRod Test
      - TruScan Activity Monitoring System
      - Water Maze
    - **Cancer/Cardiovascular Suite**
      - ECGenie
      - SomoSuite Mouse Anesthesia System
      - Storz Rodent Endoscope
      - Vevo 3100 Ultrasound
    - **Metabolic Suite**
      - Hatteras Metabolic Cage System

- Hatteras Mouse Multi-Channel Blood Pressure Analysis System
  - TSE Phenomaster
- Reynolds #473
  - **Histology Suite**
    - Leica Tissue Processor
    - Leica Tissue Embedder
    - Leica Rotary Microtome
  - **Chemical Suite**
    - Abaxis VetScan HM5 Color Hematology System (CBC)
    - Abaxis VetScan VS2 Chemistry Analyzer
    - Abaxis VetScan VSPRO
    - OsmoPro Multi-Sample Micro-Osmometer
    - TubeWriter 360
  - **Analysis Suite**
    - Digigait Analysis
    - FreeFrame 4 Analysis
    - Noldus EthoVision Analysis
    - Prism GraphPad
- MREB 3137
  - Abaxis VetScan HM5 Color Hematology System (BSL-2 Only!!!)
- **Parking**
  - **LARR**
    - The Laboratory Animal Resources and Research Building is located at 233 Agronomy Rd at the corner of University and Agronomy.
    - Researchers can park directly across from LARR in lot 71 with any valid TAMU Parking Pass or ask for a temporary parking pass from the LARR office to park in Lot 36 on the West side of the building.
    - Parking is the responsibility of the client; not the RPPC. Plan accordingly.

- **Reynolds**
  - Reynolds Medical Building is located at 206 Olsen Blvd off of University Drive.
  - Researchers without a valid TAMU Parking Pass can park in a pay-per-hour space in lot 72 a or b.
- **MREB**
  - MREB is located at the Rallis Campus at 8447 Riverside Pkwy.
  - There is ample visitor parking located throughout the campus and around the building.



LARR Animal Care Building



Reynolds Medical Building

# Billing

## TAMU Price List:

- For outside institution prices contact Dr. Alexandra Trott at [atrott@tamu.edu](mailto:atrott@tamu.edu) or (940) 368-2374

Noldus Barnes Maze/ hr	\$16
Noldus Radial Arm Maze/ hr	\$16
Noldus Open Field/ hr	\$16
Noldus Sociability Chambers/ hr	\$16
Tru Scan Activity Monitoring System/ hr	\$13
Coulbourn Habitest/ hr	\$17
Chatillon Force Measurement/ hr	\$10
Rotarod Test/ hr	\$15
Digigait/ hr	\$15
Morris Water Maze/ hr	\$3
EchoMRI-100H/ hr	\$15
Stortz Rodent Endoscope/ hr	\$31
Vevo 3100 Ultrasound/ hr	\$52

SumnoSuite/ hr	\$10
Heart Monitoring ECGenie/ hr	\$18
Hatteras Mouse Multi Channel Blood Pressure Analysis System/ hr	\$12
TSE PhenoMaster/ hr	\$16
Hatteras Diuresis Cages/ hr	\$18
Abaxis VetScan HM5 Hematology System/ hr	\$8
Abaxis VetScan VS2 Chemistry Analyzer/ hr	\$5
Abaxis VetScan VSPro Chemistry Analyzer/ hr	\$5
OsmoPRO/ hr	\$8
Analysis Computers/ hr	\$5
Tubewriter/ hr	\$5
Leica Embedding Station/ hr	\$5
Leica Rotary Microtome/ hr	\$5
Leica Tissue Processor/ per cassette	\$1.50
Hourly rate of staff/ hr	\$30
EchoMRI 40-gram Tube	\$350

## Creating an iLabs Account

- To create an iLabs account, navigate to the core page:  
[https://tamu.corefacilities.org/service\\_center/show\\_external/5032](https://tamu.corefacilities.org/service_center/show_external/5032)
- In the upper-right-hand corner of the screen click 'Login,' and select the click here link if you are part of the institution.
- You will be directed to an authentication page where you will need to enter your TAMU credentials.
- Once you have entered your credentials, click the 'Login' button.
- You will be directed to an iLabs Registration page where you will need to select your PI/Lab and verify your contact information.
- Once your registration has been submitted, your PI will receive a notification that you have requested membership to their lab in iLabs. Your PI will need to verify you are a member of their lab before you can continue to the next step.

## Adding a Funding Account

- Once you are accepted into your PI's lab group, they will need to provide a funding account for you to use to make reservations.
- Your PI can do this by:
  1. Logging into iLabs and selecting 'My Groups' in the drop-down list created from the top left 3 lines.
  2. To assign an Account to a member of your lab, click 'Membership Requests & Accounts', find the member in the above list where it says, 'Manage Account' Select the checkbox(es) to the right of their name for the Account (s) you wish to assign them.

## Billing Period

- Users of the facility will be billed each month for their usage through iLabs. When receiving training you will be billed for the appropriate instrument time as well as staff time.
- If you would like to request refresher training, consultation, or other staff assistance please note that you will be charged for staff time. External customers will be charged an external rate for instrument usage and staff time.

- **Other university researchers outside of the TAMU system will be charged a lower rate and internal TAMU customers will be charged an even more subsidized rate. After-hours (5pm to 8am) and weekend 3 operation of equipment is available at an “off-peak rate” for qualified users who have been trained to operate instruments independently.**

# Making a Reservation

## Scheduling a Training

- General Rules
  - Before you are allowed to reserve a piece of equipment, you must first be trained by an RPPC staff member on how to use it, regardless of familiarity with the equipment.
  - To schedule a training, or any reservation, you must first be accepted into your PI's lab and assigned a billing account.
  - Trainings are usually performed using RPPC test mice, however, clients can request to use their own mice instead.
  - After the training, you will be allowed to create your own reservations for that piece of equipment.
- Making a Reservation
  - At the upper right hand of the page click "Sign In". Choose the option to "Sign in using TAMU credentials".
  - Enter your NET ID and password, and sign in.
  - Select the *Schedule Equipment* tab and click on the 'View Schedule
- Scheduling a Training
  - Select the "Initiate Training" button on the right-hand side of the instrument of interest.
  - Enter the user information of the person(s) who wishes to be trained and select proceed.
  - You will be directed to a separate form where you can input for which instrument training is required, as well as which time and day would work best for your schedule. The RPPC will then create a reservation given your preferences during which you will be trained.

The screenshot shows a web browser window with the title "Training Request Use Form". The form is titled "TRAINING REQUEST" and contains the following sections:

- Request Type:** A list of checkboxes for selecting instrument types:
  - Image
  - Image/CT
  - Image/Spec/Fluor
  - Ultrasound
  - Ultrasound/Analysis
  - Fluorescence
  - Video/Fluor
  - X-ray
  - X-ray/Fluor
  - X-ray/Fluor/Spec
  - X-ray/Fluor/Spec/Fluorescence
  - X-ray/Fluor/Spec/Fluorescence/CT
  - X-ray/Fluor/Spec/Fluorescence/CT/Fluorescence
  - X-ray/Fluor/Spec/Fluorescence/CT/Fluorescence/Fluorescence
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  - X-ray/Fluor/Spec/Fluorescence/CT/Fluorescence/Fluorescence/Fluorescence/Fluorescence/Fluorescence/Fluorescence
- TRAINING AVAILABILITY (check all that apply):**
  - Time:**
    - Morning
    - Afternoon
  - Day:**
    - Monday
    - Tuesday
    - Wednesday
    - Thursday
    - Friday

At the bottom of the form, there are links: "Please save your name", "save completed form", "save draft of form", and "lock and save form".

## Making Reservations

- **General Rules**
  - You can only make reservations for equipment you have trained by RPPC staff in how to use.
  - You can make reservations from the equipment tab on iLabs: [https://tamu.corefacilities.org/service\\_center/show\\_external/5032](https://tamu.corefacilities.org/service_center/show_external/5032)
- **Making Reservations**
  - At the upper right hand of the page click “Sign In”. Choose the option to “Sign in using TAMU credentials”.
  - Enter your NET ID and password, and sign in.
  - Select the *Schedule Equipment* tab and click on the ‘View Schedule’ button next to the instrument of interest. Click and drag on the time frame you would like to schedule your reservation for.
  - A window will pop up that will allow you to verify your reservation details and provide payment information before saving the reservation.

## Types of Reservations

- **General**
  - There are three categories of reservations available.
- **Training Reservations**
  - Training reservations are required before one is able to reserve a piece of equipment.
  - Training reservations are available for all equipment and cost the same as a trained user reservation.
- **Trained User Reservations**
  - Trained user reservations are ones in which the user is the sole one responsible for conducting research.
- **Assisted Use Reservations**
  - Assisted use reservations are for those would like either help conducting their experiments or would like the RPPC to conduct research for them.

- The price for assisted use is the normal hourly price for each piece of equipment plus an additional \$30 per hour.

## Standard Operating Procedures

- General
  - Standard Operating Procedure Manuals are available for all equipment within the core.
  - Printed versions are available for reference near equipment in which they are associated.
  - PDF Versions are available for personal use via the following links:
- SOP List
  - **Behavioral/Skeletomuscular Suite**
    - [Coulbourn Habitest System](#)
    - [DigiGait](#)
    - [EchoMRI](#)
    - [Grip Strength](#)
    - [Noldus Barnes Maze](#)
    - [Noldus Radial Eight Arm Maze](#)
    - [Noldus Open Field](#)
    - [Noldus Three Chamber Sociability](#)
    - [IITC Life Science RotaRod](#)
    - [TruScan Activity Monitoring System](#)
    - [Water Maze](#)
  - **Cancer/Cardiovascular Suite**
    - [ECGenie](#)
    - [SomoSuite Mouse Anesthesia System](#)
    - [Storz Rodent Endoscope](#)
    - Vevo 3100 Ultrasound
  - **Chemical Suite**
    - [Abaxis VetScan HM5 Color Hematology System \(CBC\)](#)
    - [Abaxis VetScan VS2 Chemistry Analyzer](#)

- [Abaxis VetScan VSpro](#)
- [OsmoPro Multi-Sample Micro-Osmometer](#)
- [TubeWriter 360](#)
  
- **Histology Suite**
  - Leica Tissue Processor
  - [Leica EG1150 Embedding Station](#)
  - [Leica Rotary Microtome 2165](#)
  
- **Metabolic Suite**
  - [Hatteras Dieresis Metabolic Cage System](#)
  - [Hatteras Mouse Multi-Channel Blood Pressure Analysis System](#)
  - [TSE Phenomaster](#)

# Troubleshooting

## Equipment Failure

- **General Guidelines**
  - If an equipment failure occurs, please do not try to fix the equipment. Instead, please contact either the core director or the core research assistant as soon as possible (ASAP).
  - Contact information is listed below. Usually call/text gets quicker responses than email.
  - The RPPC will respond as quickly as possible to your needs, as facilitating the research of our clients is what is most important to us.
  
- **Reservation Information**
  - If you are unable to complete your experiment due to an equipment failure, you will not be charged for your session.
  - You will be free to make another reservation and complete your experiment at your leisure.
  - The core will contact you and your team whenever the equipment is operational again.

## Core Personnel Contact Information

- **Alexandra Trott, Ph.D.**
  - Associate Director of Rodent Preclinical Phenotyping Core | Texas A&M Institute for Genome Sciences and Society
  - Ph: 940.368.2374 | [atrott@tamu.edu](mailto:atrott@tamu.edu)
  
- **Orion Hicks**
  - Research Assistant | Rodent Preclinical Phenotyping Core | Texas A&M Institute for Genome Sciences and Society
  - Ph: 832.216.3829 | [orionhicks@tamu.edu](mailto:orionhicks@tamu.edu)

# Safety Information

## General Safety Information

- All users of the RPPC are responsible for the safe utilization of instrumentation. Electrical and chemical hazards, as well as hazards associated with the utilization of high-vacuum instruments exist.
- All new users of the facility shall receive site-specific safety training at the beginning of their instrument training. 7 No biohazardous material may be brought into the laboratory unless procedures for their use and disposal has been approved and all members of the MIC are properly informed of potential hazards. A handbook of safety procedures and a Texas A&M University Hazardous Waste Disposal Manual is located at the entrance of the laboratory.
- Users of the laboratory are obligated to use proper safety procedures and are expected to both read and understand the contents of these documents.
- Material Data Safety Sheets are maintained on all chemicals used in the facility.

## Biohazard Safety Information

- No Biosafety Level (BSL)-2, BSL-3, BSL-4 agents/pathogens or radioactive material are allowed in the facility at any time. Reservations will not be approved until the information has been examined.
- All trash/waste within these rooms must be disposed properly. For more information, please see the website for Research Compliance and Biosafety.

# User Acknowledgements

## RPPC Acknowledgement Policy

- Publications describing research that takes place at the RPPC or containing data collected from RPPC equipment shall include the following statement in the acknowledgement section of the paper: “Use of the Texas A&M Rodent Preclinical Phenotyping Core is acknowledged.”
- Expectations for co-authorship for RPPC personnel should be discussed with the associate director of the RPPC when significant intellectual input or special effort is put into the project. Efforts recommending coauthorship include the following:
  - Conception, design of project, critical input, or original ideas
  - Acquisition of data, analysis and interpretation, beyond routine practices
  - Draft the article or revise it critically for intellectual content
  - Write a portion of the paper
  - Approval of the final version of the paper to be published

## User Data Acknowledgement

- Users are responsible for their project data (“Data”) generated from Services. Users should bring a USB drive or external hard drive to promptly transfer and store Data.
- Upon RPPC approval, Data may be stored for up to 1 month and may be deleted without notice to Users. RPPC is not responsible for loss of Data.
- Users will not download or upload programs or files onto RPPC equipment without RPPC approval. Users doing so will have their access restricted. RPPC computers and equipment will not be used for any other purpose than what is in the Project Description.

### User Acknowledgement Form

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Employer (organizational/Provider): \_\_\_\_\_

Unit/Department: \_\_\_\_\_

Principle Investigator: \_\_\_\_\_

I have read the terms & conditions, safety information, and user acknowledgment agreements listed above. I understand the RPPC expectations will faithfully comply to the requirements listed.

I understand that I am responsible for any and all equipment while in my use, and I will treat the RPPC facilities and suites with the utmost care.

I understand that I am not allowed to provide access to the RPPC Hallway in LAAR to anyone who has not been given access to our facilities.

I understand that my card access and reservation ability can be revoked at any time should I fail to comply to the requirements listed above.

Signature of User: \_\_\_\_\_ Date: \_\_\_\_\_

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Completed Forms can be sent to the following locations:

Email: [atrott@tamu.edu](mailto:atrott@tamu.edu)

Delivered: Reynolds Medical Sciences Building

College Station TX 77845 RM #440

If you have any questions, feel free to contact any RPPC team member with your thoughts or concerns.

# RPPC Hallway LAAR Floor Map

LARR Phenotyping Suite  
Emergency Contact: Dr. Alex Trott (940)-368-2375

