



Pediatric Animal Physiology (AP) Core

January 2025



Animal Physiology (AP) Core Overview

The AP Core is a centralized resource specializing in procedural, surgical, and imaging services for rats and mice, and assistance with procedures in other species.

Core Services:

- Surgery
- High-frequency ultrasound imaging
- Technical procedures
- Training
- Model generation
- Protocol development
- Metabolic data collection - NEW
- Hematological analysis - NEW

SCAN ME



Contact us at ap_core@emory.edu or scan the QR code to go to our inquiry form.

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Surgery

A skilled and experienced surgeon performs your survival and/or acute procedures

Benefits:

- Save time, save money
- Create consistent and reproducible models

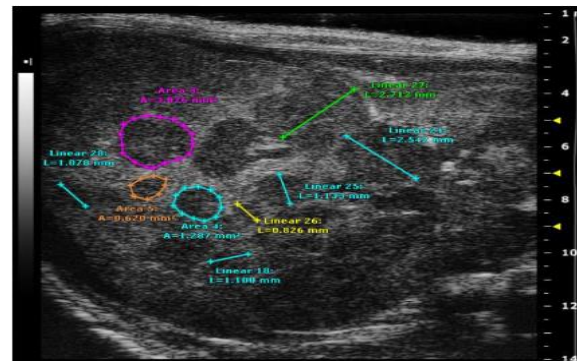
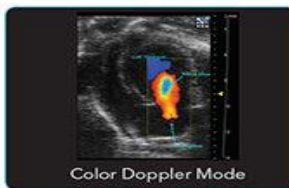
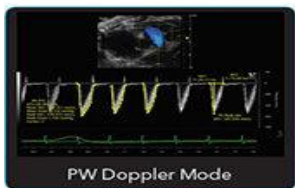
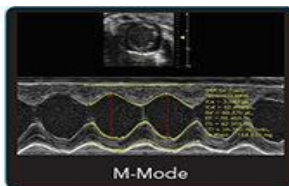


Scan QR code for surgery list –
any new request considered!

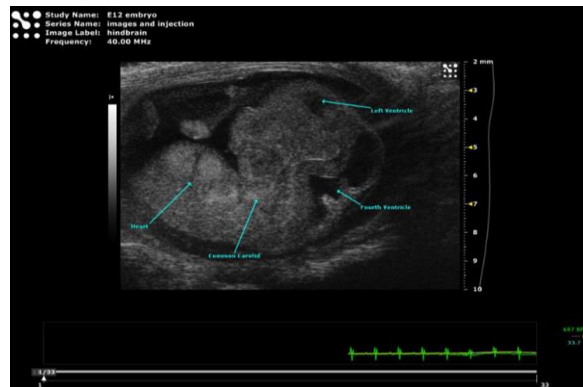
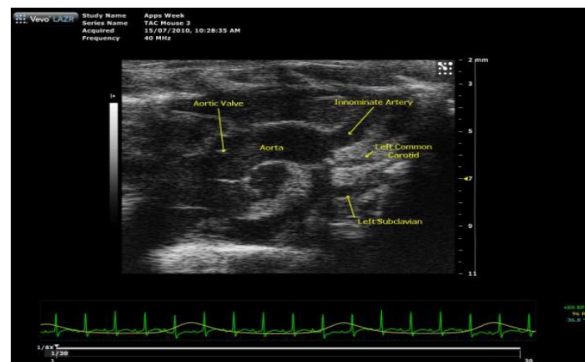
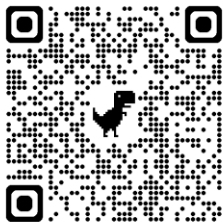


Ultrasound Imaging

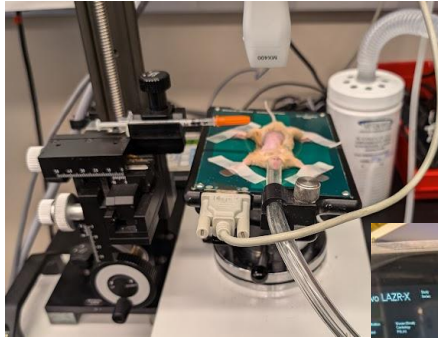
Vevo 3100 High-Frequency Ultrasound and Vevo LAB Analysis Software



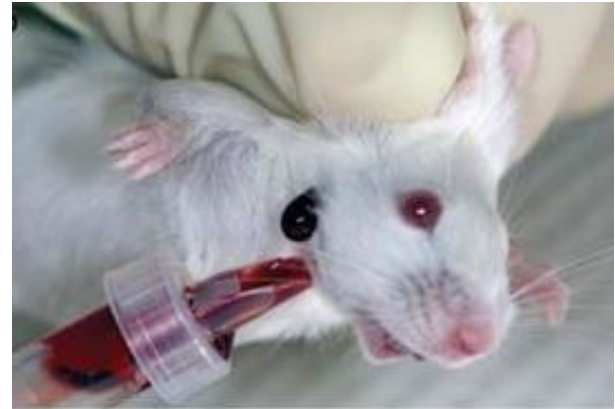
Scan QR code for features and software tools



Technical Procedures



- Ultrasound-guided injection
- Substance administration
- Blood collection



Training

Training services available for nearly any procedure we perform

Benefits:

- Save time
- Minimize drift



Model Generation and Protocol Development

- Assistance in the development of new surgical and technical models in animals
- Protocol and procedural writing



Metabolic Data Collection - NEW

Columbus Instruments OxyMax CLAMS-HC



Indirect calorimetry
Scan QR code for more info

Hatteras Instruments MMC100



Renal metabolism
Scan QR code for more info

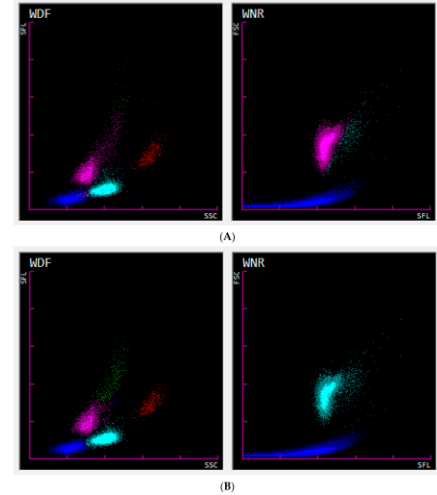
Hematological Analysis - NEW

Sysmex XN-1000V

- Comprehensive CBC and differential
 - Includes reticulocytes and platelets
 - Utilizes flow cytometry processes
- Whole blood sample aspiration volume as low as 50uL
- Body fluid samples (CSF, pleural fluid)



Scan QR code for more info



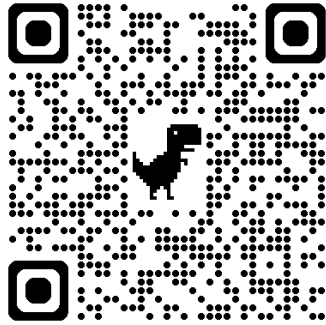
Future Endeavors

- Fujifilm Vevo F2 with LAZR-X photoacoustic imaging
- Surgical and imaging workshops



Scan QR code for more info

Thank you from the Pediatric Research Cores!



<https://pedsresearch.org/cores>

- Questions or comments

