Pediatric Core Services

Offering the equipment, tools, and skilled professionals to make your research faster and more impactful. From imaging and data analysis to clinical trial support, our pediatric cores provide key resources and expert support to help researchers at every step.

Animal Models

- Animal Physiology Core: offers services & equipment for complex technical & surgical procedures in animals. Provides access to Sysmex XN-1000V (a fully automated 5-part differential veterinary hematology analyzer) and metabolic cages for simultaneous measurement of key metabolic parameters in mice.
- CF Animal Models Core: provides murine models relevant to cystic fibrosis researchers.

Biorepositories & Clinical Research

- Children's Clinical and Translational Discovery Core: supports investigators with specimen processing, storage, and other services important to conducting clinical trials.
- CF Discovery Core and CF Biospecimen Repository (CF-BR): utilizes the CF-BR, a storage bank of several thousand biofluids collected from patients with cystic fibrosis at varying disease states.
- Laboratory and Pathology Clinical Research Core: provides clinical laboratory testing, specimen processing, histology services, and de-identified tumor bank specimens to investigators.
- Ian's Friends Foundation Brain Tumor Biorepository: collects, cultures, and distributes pediatric brain tumor biospecimen for research studies with Children's IRB approval and patient consent.

Biostatistics

- Pediatric Biostatistics Core: provides comprehensive expertise in statistical methodology and advanced data analysis to support the design, execution, and dissemination of studies, including grant proposals and manuscripts.

Clinical & Data Registry

- Pediatric Heart Diseases Data Registry Core: offers access to rich registry data from surgical, catheter-based and electrophysiologic studies and interventions for multiple pediatric heart diseases.
- Children's Health Informatics Core (CHIC): provides informatics expertise to access and leverage electronic health record data for funded research, multicenter collaboration, and interventions.

General Equipment

- General Equipment Core: offers access to select laboratory equipment to support pediatric research.

Imaging

- Animal Physiology Core: provides advanced ultrasound as part of its services related to animal models.
- Cardiovascular Imaging Research Core (CIRC): offers non-invasive cardiovascular imaging support for investigators involved in clinical research.
- Integrated Cellular Imaging Core: provides access to cutting-edge cellular imaging technologies and technical expertise to support pediatric research.
- Medical Imaging Resources: cross-disciplinary scientific, administrative, and educational home for imaging science through Emory Center for Systems Imaging (CSI) and Children's Pediatric Imaging Research Core (PIRC).

Research Grant Development

- Pediatric Research Development Core: offers three arms of support services to optimize researcher careers: General Resources and Services, Education and Training, and Proposal Development.

Sample Interrogation

- Biomarkers Core: offers state of the art equipment and up-to-date technology to provide high quality analysis of biological samples to support pediatric research.
- Pediatric/Winship Flow Cytometry Core: provides cytometry services for the analysis and sorting of cells, and expert consultation for experimental design and planning.
- ADJUST Laboratory: CLIA-certified, CAP-accredited lab for validating, implementing, and helping to develop new diagnostic technologies to be used from clinical laboratory to home, with focus on accessible, reliable, and affordable diagnostics for members of all communities and economic backgrounds.

Questions?

For more information about our cores and usage subsidies, please scan the QR code to visit our website at https://pedsresearch.org/cores, or contact Stacy Heilman, PhD, Vice Chair for Research Operations, at stacy.heilman@emory.edu. Links to other cores also available to pediatric researchers can be found on our website.