

# Your Monthly PeRCH

The Pediatric Research Cores Highlight is a feature showcasing specialized services that support child health researchers at Emory University, Children's Healthcare of Atlanta, and their partner institutions.

Vice Chair for  
Research Operations  
Stacy Heilman, PhD

**Pediatric Research  
Cores News**

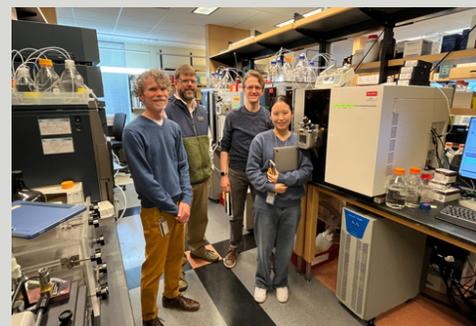
Pediatric Cores  
Administrator  
Kevin Loop-Tapp

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## Announcements & Updates

### Pediatric Metabolomics & Biomarkers Core (PMBC): Thermo Stellar Mass Spectrometer

The [Pediatric Metabolomics and Biomarkers Core \(PMBC\)](#) is evaluating the Thermo Stellar Mass Spectrometer with a goal to augment the core's existing polytargeted metabolomics assays. This highly sensitive linear ion trap incorporates Thermo's "Adaptive RT" AI to dynamically monitor assay performance and enable more metabolites to be monitored in a single assay. The PMBC is implementing the core's existing metabolite library (over 600 metabolites) on the Stellar, and aims to keep expanding the library until the method can assess more than 1000 rigorously annotated metabolites in a single run. Polytargeted metabolomics on the Stellar is slated to increase efficiency, maximize assay sensitivity, and decrease sample consumption. **For more information about polytargeted metabolomics and other services offered by the PMBC, please contact Joshua Chandler ([joshua.chandler@emory.edu](mailto:joshua.chandler@emory.edu)).**



Technical Director Frank Harris, Associate Scientist James Lyles, Scientific Director Joshua Chandler, and Graduate Student Su Yeon Oh evaluating the first experiments on the PMBC's Thermo Stellar.

### Request for Feedback from the Integrated Cellular Imaging (ICI) Core at Emory

Might you have a use for a [Cardiac Cell Kinetic Image Cytometer \(IC200-KIC + SIM\)](#) in your research? This technology merges fast videography with high-throughput analytics, analyzing thousands of individual cells simultaneously to detect even the subtlest therapeutic effects. KIC<sup>®</sup> extracts hundreds of functional activities and morphological measurements per cell, revealing cellular heterogeneity often masked in traditional whole-field imaging. We would love your feedback on the potential utility of this technology for your work. **Please take a minute to read more about this technology and fill out the survey [linked here](#).** To learn more about the ICI Core, please click [here](#). We appreciate your valuable input!

### Children's Clinical and Translational Discovery Core (CTDC)

Note for users of the [Children's Clinical and Translational Discovery Core \(CTDC\)](#) who request fresh whole blood: Our phlebotomist, Marissa Gonzalez, will be out of office from March 30 until April 3. Please plan experiments accordingly.

The Pediatrics Cores are generously supported by Children's Healthcare of Atlanta and Emory University. When presenting or publishing work completed using a Pediatrics Core, please include core-specific acknowledgement. If you are seeking specific language, you can find it under the "Acknowledgements" tab of the specific core [here](#).

Click [HERE](#) to see all of the research cores that support the Emory + Children's Pediatric Research Ecosystem.

For more information about our research cores, please contact [Dr. Stacy Heilman](#).

