

## 2023 RESEARCH GRANTS

<b>Ann &amp; Robert H Lurie Children's Hospital of Chicago (Rajesh Kumar, MD)</b> <b>Chicago, IL</b> The Bidirectional Effects of the Microbiome and Soy Isoflavones in Infancy in the Context of Progression to Asthma Endotypes and Phenotypes	<b>\$350,000</b>
<b>Boston Children's Hospital (Jessica Ruiz, MD)</b> <b>Boston, MA</b> Leveraging Continuous Glucose Monitoring to Define Abnormal Glucose Trends in Infants Receiving Parenteral Nutrition	<b>\$27,692</b>
<b>Boston Medical Center (Elisha Wachman, MD)</b> <b>Boston, MA</b> Neonatal Withdrawal Assessment Tool: Validation of a Novel Tool for Neonatal Sedation and Withdrawal Management	<b>\$348,747</b>
<b>Children's Hospital Medical Center (Cincinnati) (Zachary Taylor, Ph.D.)</b> <b>Cincinnati, OH</b> Understanding Methotrexate Exposure in Infants with Leukemia To Optimize Therapeutic Dosing and Limit Toxicity	<b>\$275,121</b>
<b>Children's Hospital Medical Center (Cincinnati) (Chelsea Blankenship, Au.D., Ph.D.)</b> <b>Cincinnati, OH</b> Optimized Detection and Classification of Neurologic Impairment and Hearing Loss in Fullterm and High-Risk Preterm Infants	<b>\$349,430</b>
<b>Children's Mercy Hospitals &amp; Clinics (Lori Erickson, Ph.D)</b> <b>Kansas City, KS</b> Leveraging mHealth care model for pediatric enteral feeding tube weaning: CHAMP For the Feeder	<b>\$328,876</b>
<b>Children's National Hospital (Katherine Ottolini, MD)</b> <b>Washington DC</b> Optimizing Growth and Neurodevelopment in Preterm Infants through Individualized Nutrition	<b>\$350,000</b>
<b>Helen DeVos Childrens Hospital (Benedict Doctor, MD)</b> <b>Grand Rapids, MI</b> Secretion Transcriptomics in Preemies with BronchoPulmonary Dysplasia (SToP BPD): stepping toward precision medicine	<b>\$179,544</b>
<b>Johns Hopkins All Children's Hospital (Michelle Hojnack, DO)</b> <b>Petersburg, FL</b> Mesenteric near-infrared spectroscopy: a non-invasive means of identifying gastrointestinal stress during nutrition introduction and advancement among neonates with critical congenital heart disease	<b>\$30,000</b>
<b>Lurie Children's Hospital (Nabgha Farhat, DO)</b> <b>Chicago, IL</b> Genomic Characterization of Invasive and Colonizing ESBL-Producing Enterobacterales in Young Infants	<b>\$33,765</b>
<b>Monroe Carell Jr Children's Hospital at Vanderbilt (Meaghan Ransom, MD)</b> <b>Nashville, TN</b> The PRONE (Promoting Respiratory Outcomes in NEonates) Pilot Study	<b>\$30,000</b>
<b>Purdue University (Ephrem Abebe, Ph.D)</b> <b>West Lafayette, IN</b> Participatory Design of a Family Centered Tool to Promote Safety of Medication and Feeding Co-Management Among Infants and Young Children	<b>\$248,533</b>
<b>The University of Chicago (Sarah Sobotka, MD)</b> <b>Chicago, IL</b> An interdisciplinary intervention to promote oral feeding in young children with feeding tubes and tracheostomies	<b>\$350,000</b>
<b>University of Colorado Denver (Matthew Leroue, MD)</b> <b>Denver, CO</b> Tryptophan metabolism, the intestinal microbiome, and enteral nutrition in infants undergoing cardio-pulmonary bypass	<b>\$30,000</b>
<b>University of Florida (Leslie Parker, Ph.D.)</b> <b>Gainesville, FL</b> Frequent Standardized Oral Care Using Human Milk to Reduce Oral Dysbiosis and Improve Health Outcomes in Preterm Very Low Birth Weight Infants	<b>\$349,949</b>
<b>University of Massachusetts - Worcester (Courtney Birchall, MD)</b> <b>Worcester, MA</b> Impact of preeclampsia on the neonatal initial microbiome	<b>\$30,000</b>
<b>University of Michigan Medical School (Daniel Ehrmann, MD)</b> <b>Ann Arbor, MI</b> A Tropical Geometry-Based Fuzzy Neural Network Approach to Diuretic Management after Congenital Cardiac Surgery	<b>\$350,000</b>
<b>University of Rochester (Igor Khodak, MD)</b> <b>Rochester, MN</b> Precision Growth Trajectories in Extremely Low Gestational Age Newborns	<b>\$30,000</b>
<b>University of Utah (Daniel York, MD)</b> <b>Salt Lake City, UT</b> Peripheral Microvascular Density as a Perinatal Proxy to Predict Retinopathy of Prematurity	<b>\$30,000</b>
<b>UT Health Science Center (Maria del Mar Romero Lopez, MD)</b> <b>Austin, TX</b> Randomized Trial of Enteral Vitamin D Supplementation in Infants < 28 Weeks Gestational Age or <1000 Grams Birth Weight	<b>\$349,809</b>

**TOTAL NATIONAL GRANTS AWARDED: \$4,071,466**