

# Stanley Manne Children's Research Institute™

The mission of **Stanley Manne Children's Research Institute** at **Ann & Robert H. Lurie Children's Hospital of Chicago** is to generate new knowledge and translate advancements in the prevention, diagnosis, and treatment of diseases that affect children's health through adolescence and adulthood. Our multidisciplinary teams are committed to making discoveries that will improve the lives of children and their families.

Manne Research Institute faculty members investigate a range of children's health and diseases across the translational science spectrum. Manne Research Institute studies are led by over 750 researchers, and are organized into four scientific pillars: Basic and Preclinical Science; Clinical and Community Trials; Community, Population Health, and Outcomes; and Quantitative Science.

Researchers include physicians, scientists, postdocs, coordinators, statisticians, data analysts, trainees, and others who share their expertise. Our pediatricians and scientists routinely collaborate with our academic partner, Northwestern University, and other medical centers and academic institutions across the globe, as well as with community partners such as schools and governments.

Manne Research Institute receives more than \$70 million in external funding annually for research, two-thirds of that from the National Institutes of Health and other federal agencies. It is one of the nation's premier institutes for pediatric research, investing more dollars and resources in pediatric research than any other area hospital.

In addition to clinical and population health research facilities, Manne Research Institute has approximately 125,000 square feet of state-of-the-art laboratory space. In 2019, Manne Research Institute wet-lab research moved into the Louis A. Simpson & Kimberly K. Querrey Biomedical Research Building located on the Northwestern University Chicago campus. This new 22-story building includes wet-bench laboratories, animal facilities, and conference, educational, office, and collaborative space. It is adjacent to Northwestern University research resources and is located just one city block from Lurie Children's.



Photo: Northwestern University

 **Ann & Robert H. Lurie  
Children's Hospital of Chicago®**

**M Northwestern Medicine®**  
Feinberg School of Medicine

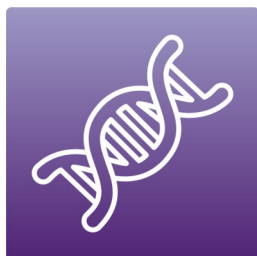
[luriechildrens.org/research](https://luriechildrens.org/research)

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# OUR RESEARCH PILLARS

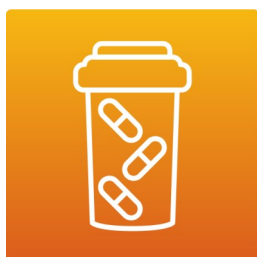


## BASIC AND PRECLINICAL SCIENCE

Basic and preclinical science researchers at Stanley Manne Children's Research Institute conduct laboratory experiments that investigate essential functions of biological processes and the fundamental mechanisms of diseases and disorders affecting children's health. By closing gaps in scientific knowledge, basic and preclinical science researchers provide the foundation to develop next-generation technologies and treatments for pediatric patients.

The Basic and Preclinical Science pillar laboratory-based programs are organized into virtual scientific neighborhoods promoting collaborations between investigators, staff, and trainees. These neighborhoods include:

- Developmental Biology
- Engineered Solutions for Health
- Fertility and Hormone Preservation and Restoration
- Host-Microbial Interactions, Inflammation, and Immunity
- Human Molecular Genetics and Physiology/  
CHILDS Center
- Immune Deviation and Disease
- Injury, Repair, and Regeneration
- Molecular and Translational Cancer Biology
- Neurobiology
- Perinatal Origins of Disease



## CLINICAL AND COMMUNITY TRIALS

Clinical and community trials researchers at Manne Research Institute translate the meaningful discoveries of basic science into promising clinical applications through evaluation of new diagnostic tests and drugs, behavioral treatments, and other interventions to determine their effects on pediatric health. Multidisciplinary teams of researchers collaborate to study complex childhood health issues in areas such as critical care, oncology, transplant medicine, and neonatology. Their research generates innovation in the diagnoses, treatment, and prevention of diseases and disorders in the pediatric population.



## COMMUNITY, POPULATION HEALTH, AND OUTCOMES

Community, population health, and outcomes researchers at Manne Research Institute seek to improve health, health care delivery, and access to care for children and youth from a diverse range of backgrounds and environments. These research leaders advance our knowledge about the natural history, biological, psychological, social, behavioral, and environmental causes and influencers of common and prominent child health problems. Their research informs action for patients, families, communities, health system leaders, and policymakers. Much of their program evaluation work is conducted in partnership with community-based organizations as evidence is translated into clinical and public health interventions.



## QUANTITATIVE SCIENCE

Quantitative science experts collaborate with researchers across Manne Research Institute to provide cutting-edge statistical and analytical support and computational techniques to maximize research impact and improve the health outcomes of pediatric patients. Their expertise in statistics, bioinformatics, database analytics, applied clinical informatics, and predictive analytics enables researchers to test hypotheses, answer research questions, and pursue understanding of behaviors across different populations.