

Developmental crossroads: intersecting origins of health and disease

The 7th Annual Meeting of the United States DOHaD Society

September 17-19th, 2023

Children's Mercy Research Institute, Kansas City, MO

Trainee Day: Sunday (September 17, 2023)

Children's Mercy Research Institute (23rd Street/Randall O'Donnell Way & Locust / Use Google Maps: 585 E. 23rd St, Kansas City, MO 64108

Complimentary shuttle service will be provided from 8:30-10:30AM from KUMC Campus to CMRI. The pickup location at KUMC is outside the HEB building (2146 West 39th Avenue, Kansas City, KS 66103).

Guests staying at the Sheraton will need to walk or uber to the CMRI for the morning sessions. Please see walking directions at the end of the program.

9:00 - 9:30AM

[Breakfast and Networking \(CMRI Conference Room 1\)](#)

9:30 - 11:00AM

Session 1: Grant Writing & Scientific Pitch Workshop

[\(CMRI Conference Room 1\)](#)

Robert H. Lane, MD, MS (Children's Mercy, Kansas City) and

Kurt H. Albertine, PhD, FAAAS, FAAA (Children's Mercy, Kansas City)

11:00 - 11:15AM

[Coffee Break](#)

11:15 - 12:15PM

Session 2: Supporting Trainees During Career Transitions

[\(CMRI Conference Room 1\)](#)

Sarah Uchytel, PCC (Sarah U Coach, Kansas City)

12:15 - 1:00PM

[Boxed Lunches, Networking, and Group Photo \(The Garden Lobby\)](#)

[Gather for a trainee day attendee group photo.](#)

1:00 - 3:00PM

Session 3: (optional) Individual and small group discussions for feedback on writing products, career development, and mentoring.

[\(CMRI Conference Room 2\)](#)

Robert H. Lane, MD, MS (Children's Mercy, Kansas City),

Kurt H. Albertine, PhD, FAAAS, FAAA (Children's Mercy, Kansas City), and

Sarah Uchytel, PCC (Sarah U Coach, Kansas City)

3:00 - 5:00PM

Break

Complimentary shuttle service will be provided from 3:00-5:00PM from CMRI to KUMC. The pickup location at CMRI is in front of the main entrance at 585 E. 23rd St, Kansas City, MO 64108 (please use Google Maps). The KUMC pick-up and drop-off point is located outside the HEB building (2146 West 39th Avenue, Kansas City, KS 66103).

Complimentary shuttle service will be provided by Children's Mercy from the Sheraton hotel to the CMRI from 4:30-8:30PM. Shuttle will circle approximately every 15 minutes, so please be patient and plan accordingly.

5:00 – 8:00PM

**Opening Reception and Poster Session
(CMRI Big Slick Auditorium and The Garden Lobby)**

5:00 - 6:00PM

Welcome and Introductory Remarks [\(CMRI Big Slick Auditorium\)](#)
Presented by US DOHaD Society Leadership Council Members

- Leadership Council Introductions
- Scientific Program Overview
- NIH Initiatives & Efforts to Support DOHaD Research
 - o **Thad Schug, PhD (NIEHS)**
 - o **Emily Hooker, PhD (NIA)**
- Poster Session Kickoff and Introduction

6:00 - 8:00PM

Reception and Poster Competition & Exhibition (The Garden Lobby)
[\(Heavy Hors d'oeuvres will be served\)](#)

8:00 - 9:00PM

Complimentary shuttle service will be provided from 7:00-9:00PM from CMRI to KUMC. The pickup location at CMRI is in front of the main entrance at 585 E. 23rd St, Kansas City, MO 64108 (please use Google Maps). The KUMC pick-up and drop-off point is located outside the HEB building (2146 West 39th Avenue, Kansas City, KS 66103).

Complimentary shuttle service will be provided by Children's Mercy from the CMRI to the Sheraton hotel until 8:30PM. Shuttle will circle approximately every 15 minutes, so please be patient and plan accordingly.

Program Day 1: Monday (September 18th, 2023)

Children's Mercy Research Institute (23rd Street/Randall O'Donnell Way & Locust / Use Google Maps: 585 E. 23rd St, Kansas City, MO 64108)

Complimentary shuttle service will be provided by KUMC Parking Services from 7:00-9:00AM from KUMC Campus to CMRI. The pickup location at KUMC is outside the HEB building (2146 West 39th Avenue, Kansas City, KS 66103).

Complimentary shuttle service will be provided by Children's Mercy from the Sheraton hotel from 7:15-8:15AM. Shuttle will circle approximately every 15 minutes, so please be patient and plan accordingly. If you plan to park onsite, there will be reserved parking cones out front of CMRI located at (23rd Street/Randall O'Donnell Way & Locust / Use Google Maps: 585 E. 23rd St, Kansas City, MO 64108).

- 7:30-8:00AM** **Grab-and-go breakfast (CMRI Big Slick Auditorium Lobby)**
Meeting registration table will be open for badge and program pick-up.
- 8:00 - 8:15AM** Welcome and Introduction (CMRI Big Slick Auditorium)
- Robert H. Lane, MD, MS (Children's Mercy Kansas City)**
Tom Curran, PhD, FRS (Children's Mercy Kansas City)
Phu Tran, PhD (University of Minnesota)
- 8:15 - 9:45AM** **Theme 1: The intersection of prenatal nutrition and child health**
(CMRI Big Slick Auditorium)
- Session Chairs: **Susan Carlson, PhD (University of Kansas Medical Center) and Phu Tran, PhD (University of Minnesota)**
- Keynote:
8:15-8:45AM **Emily Oken, MD, MPH (Professor, Harvard Medical School)**
"Challenges and opportunities in longitudinal DOHaD research"
- Invited Platform:
8:45-9:00AM **Michele Monroy-Valle, PhD (LA DOHaD Guatemala Delegate)**
Breaking the cycle: Unveiling the association of maternal food insecurity on children's bone health"
- Platform:
9:00-9:15AM **Arin Oestreich, PhD (Washington University St. Louis)**
"Maternal conversion of omega-6 to omega-3 fatty acids enhances fetal growth and mitigates osteoarthritis related pain behaviors in adult offspring"
- Keynote:
9:15-9:45AM **Danielle Christifano, PhD (Assistant Professor, University of Kansas Medical Center)**
"Docosahexaenoic acid supplementation during pregnancy: timing, dose, and birth outcomes"
- 9:45 - 10:00AM** **Group Photo** [Gather for a conference attendee photo on the CMRI front steps.](#)

10:00 - 11:30AM	Keynote: 10:00-10:30AM	Laura Brown, MD (Professor, University of Colorado) "Muscle matters: Fetal influences on body composition in children and adults"
	Invited Platform: 10:30-10:45AM	Holly Hull, PhD (Professor, University of Kansas Medical Center) "Maternal added sugars intake and offspring central adipose tissue accrual in a high-risk population"
	Platform: 10:45-11:00AM	Megan Knuth, PhD (University of North Carolina Chapel Hill) "Early life exposure to vitamin D deficiency programs adult liver pathways regulating energy metabolism, growth & development, and inflammation"
	ECHO Speaker: 11:00-11:30AM	Max Aung, PhD, MPH (Assistant Professor, University of Southern California) "Exploring maternal bioactive lipids as a mechanistic link between prenatal environmental exposures and infant neurodevelopment"
11:30 – 12:30PM	Working Lunch *Boxed lunches provided. US DOHaD Member Business Meeting (CMRI Big Slick Auditorium)	
12:30 - 3:30PM	Theme 2: The intersection of maternal health and developmental origins (CMRI Big Slick Auditorium)	
	Session Chairs:	Courtney Marsh, MD (University of Kansas Medical Center) and Brigid Gregg, MD (University of Michigan)
	Keynote: 12:30-1:00PM	Ellen Demerath, PhD (Professor, University of Minnesota) "Inflammation and the mother-milk-infant triad"
	Invited Platform: 1:00-1:15PM	Michael Ross, MD, MPH (Investigator, The Lundquist Institute) "Does high calorie milk of overweight mothers contribute to childhood obesity?"
	Keynote: 1:15-1:45PM	Todd Bradley, PhD (Director, Immunogenomics, Children's Mercy Kansas City) "The cellular and immunological dynamics of early and transitional human milk"
1:45 – 2:00PM	Coffee Break CMRI Big Slick Auditorium Lobby	
	Keynote: 2:00-2:30PM	Mark Santillan, MD, PhD (Associate Professor, University of Iowa) "Preeclampsia and the brain: Crossroads and opportunities for new highways"

Platform: **Brittany Hufft-Martinez, PhD (University of Kansas Medical Center)**
2:30-2:45PM "Manipulating the maternal environment to prevent cleft palate"

Platform: **Emily Nagel, PhD (University of Minnesota)**
2:45-3:00PM "Toward reducing disease risk: Rapid infant weight gain is associated with increased infant total adiposity and regional adiposity at 6 months of age"

ECHO Speaker: **Sarah Geiger, PhD (Assistant Professor, University of Illinois)**
3:00-3:30PM "Associations between chemical and non-chemical exposures during pregnancy and child sleep quality"

3:30 - 3:45PM [Coffee Break](#) [CMRI Big Slick Auditorium Lobby](#)

3:45 – 5:00PM **Theme 3: The intersection of model organisms and DOHaD research** ([CMRI Big Slick Auditorium](#))

Session Chairs: **Julie Christianson, PhD (University of Kansas Medical Center)**
and **Irfan Saadi, PhD (University of Kansas Medical Center)**

Keynote: **Bérénice Benayoun, PhD (Assistant Professor, University of Southern California)**
3:45PM-4:15PM "The African turquoise killifish as a vertebrate model to study reproductive aging"

Platform: **Mikaela Simon (Graduate Student, University of Kansas Medical Center)**
4:15-4:30PM "Follistatin like 3 involvement in invasive trophoblast cell development and hemochorial placentation"

Platform: **Briana Clifton (Medical Student, University of Minnesota)**
4:30-4:45PM "Impacts of placental mTOR signaling deficiency on glycogen cell count and localization during mid and late gestation in a murine model"

Invited Platform: **Brigid Gregg, MD (Assistant Professor, University of Michigan)**
4:45-5:00PM "Lactational programming: modeling neonatal exposures"

Complimentary shuttle service will be provided from 5:00-7:00PM from CMRI to KUMC. The pickup location at CMRI is in front of the main entrance at 23rd Street/Randall O'Donnell Way & Locust / Use Google Maps: 585 E. 23rd St, Kansas City, MO 64108. The KUMC pick-up and drop-off point is located outside the HEB building (2146 West 39th Avenue, Kansas City, KS 66103).

5:30PM - 10:30PM Shuttle service will be provided by Overland Chauffeured Services between the CMRI and the Sheraton Hotel to Amigoni Urban Winery. Shuttle service will run continuously from 5:30PM-10:30PM.

6:00 - 10:00PM **Reception Dinner and Awards Ceremony**
[Amigoni Urban Winery \(1505 Genessee Suite 100, Kansas City, MO, 64102\)](#)

Shuttle service will be provided by Overland Chauffeured Services from Amigoni Urban Winery to the CMRI and the Sheraton hotel. Shuttle service will conclude by 10:30PM.

Complimentary shuttle service will be provided from 10:00PM-midnight from CMRI to KUMC. The pickup location at CMRI is in front of the main entrance at 23^d Street/Randall O'Donnell Way & Locust / Use Google Maps: 585 E. 23rd St, Kansas City, MO 64108. The KUMC pick-up and drop-off point is located outside the HEB building (2146 West 39th Avenue, Kansas City, KS 66103).

Program Day 2: Tuesday (September 19th, 2023)

Complimentary shuttle service will be provided from 7:00-9:00AM from KUMC Campus to CMRI. The pickup location at KUMC is outside the HEB building (2146 West 39th Avenue, Kansas City, KS 66103).

Complimentary shuttle service will be provided by Children's Mercy from the Sheraton hotel from 7:15-8:15AM. Shuttle will circle approximately every 15 minutes, so please be patient and plan accordingly. If you plan to park onsite, there will be reserved parking cones out front of CMRI located at (23rd Street/Randall O'Donnell Way & Locust / Use Google Maps: 585 E. 23rd St, Kansas City, MO 64108).

7:30 - 8:00AM Grab-and-go breakfast ([CMRI Big Slick Auditorium Lobby](#))
Meeting registration table will be open for badge and program pick-up.

8:00 – 9:45AM **Theme 4: The intersection of pre- and perinatal exposures and health outcomes** ([CMRI Big Slick Auditorium](#))

Session Chairs: **Suzanne Fenton, PhD (NIEHS) and Thad Schug, PhD (NIEHS)**

Keynote:
8:00-8:30AM **Susan Smith, PhD (Professor, University of North Carolina)**
"How do nutritional and genetic determinants influence outcomes in prenatal alcohol exposure, a model gestational stressor?"

Invited Platform:
8:30-8:45AM **Michael Cowley, PhD (Associate Professor, NC State University)**
"The placental response to cadmium and implications for fetal growth"

Platform:
8:45-9:00AM **Cynthia Perez (PhD Candidate, Emory University)**
"Investigating sexual dimorphism of PFAS associations with placental gene expression through weighted gene correlation network analysis"

Platform:
9:00-9:15AM **Liping Feng, MD, MS (Associate Professor, Duke University Medical Center)**
"Neurobehavioral effects of prenatal and perinatal PFAS exposure through drinking water"

ECHO Speaker:
9:15-9:45AM **Michael Petriello, PhD (Assistant Professor, Wayne State University)**
"Maternal PFAS exposures modulate gut microbiota form and function"

9:45 – 10:00AM [Coffee Break](#) [CMRI Big Slick Auditorium Lobby](#)

10:00 - 12:30PM **Theme 5: The intersection of population and personalized medicine** ([CMRI Big Slick Auditorium](#))

Session Chairs: **Kathy Goggin, PhD (Children’s Mercy Kansas City and University of Missouri - Kansas City Schools of Medicine and Pharmacy) and Gene Lee, MD (University of Kansas Medical Center)**

Keynote: **Christine Ladd-Acosta, PhD (Associate Professor, Johns Hopkins)**

10:00-10:30AM “Periconception and prenatal environment influences on neurodevelopment: insights from the epigenome”

Platform: **Kartikeya Makker, M.B.B.S. (Assistant Professor, Johns Hopkins)**

10:30-10:45AM “Relationship of birth insulin to childhood hypertension (HTN): Finding from the Boston birth cohort”

Platform: **Amy Smith, PhD, CCLS, MT-BC (Postdoctoral Fellow, Children’s Mercy Kansas City)**

10:45-11:00AM “Exploring the association between manually coded conversational turns in a lab-based setting and day-long language environment recordings using LENA”

11:00 – 11:15AM

Coffee Break

CMRI Big Slick Auditorium Lobby

Keynote: **Sharla Smith, PhD, MPH (Associate Professor, University of Kansas Medical Center)**

11:15-11:45AM “Birthing while black: The maternal health experiences in Kansas and Missouri”

Invited Platform: **Taneisha Scheuermann, PhD (Associate Professor, University of Kansas Medical Center)**

11:45-12:00PM “Helping moms quit: Support for postpartum smoking abstinence”

ECHO Speaker: **Brittney Snyder, PhD (Research Assistant Professor, Vanderbilt University)**

12:00-12:30PM “The associations of maternal health characteristics, newborn metabolite concentrations, and child BMI among US children in the ECHO Program”

12:30 – 2:00PM

Lunch, 8th Annual Meeting Announcement, and Closing Remarks
***Boxed lunches provided (CMRI Big Slick Auditorium)**

Complimentary shuttle service will be provided from 1:45-3:45PM from CMRI (23rd Street/Randall O’Donnell Way & Locust) to KUMC (2146 West 39th Avenue, Kansas City, KS 66103). Complimentary shuttle service will also be provided by Children’s Mercy from the CMRI to the Sheraton hotel.

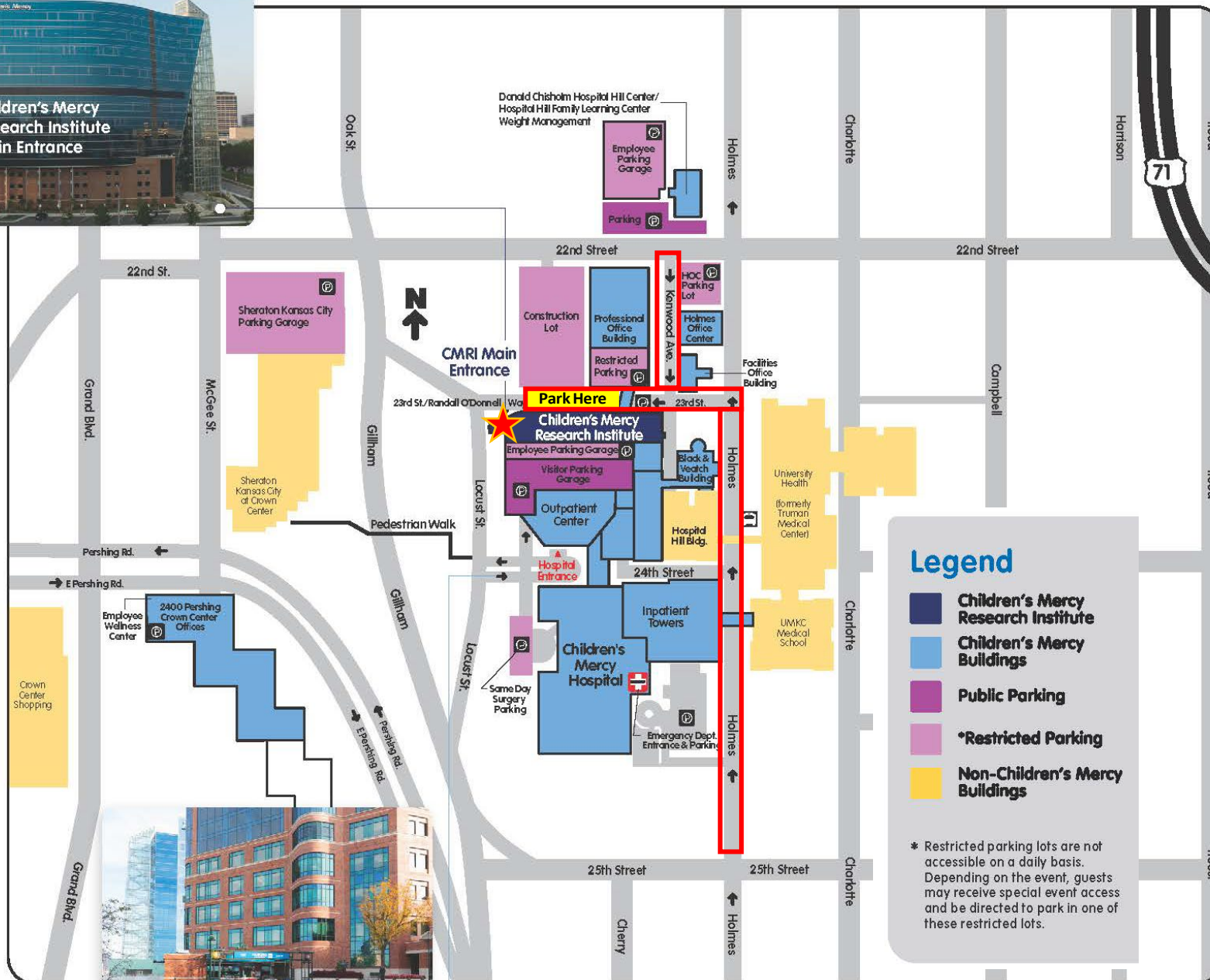
EVENT PARKING DIRECTIONS

Children's Mercy Research Institute (CMRI)

Front Entrance Parking (23rd St./Randall O'Donnell Way)

You must arrive driving **west-bound on 23rd St (Randall O'Donnell Way)** which is one-way.

To search for the Children's Mercy Research Institute on Google Maps, use: **585 E. 23rd St, Kansas City, MO 64108**



From the north:

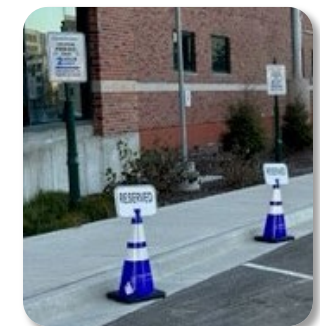
- turn south on Kenwood Ave. which looks a little like an alley
- turn right on 23rd St/ Randall O'Donnell Way
- you will be directed to park on the street in front of CMRI or in the Professional Office Building Restricted Lot

From the south:

- turn north on Holmes
- turn left on 23rd St/ Randall O'Donnell Way
- you will be directed to park on the street in front of CMRI or in the Professional Office Building Restricted Lot

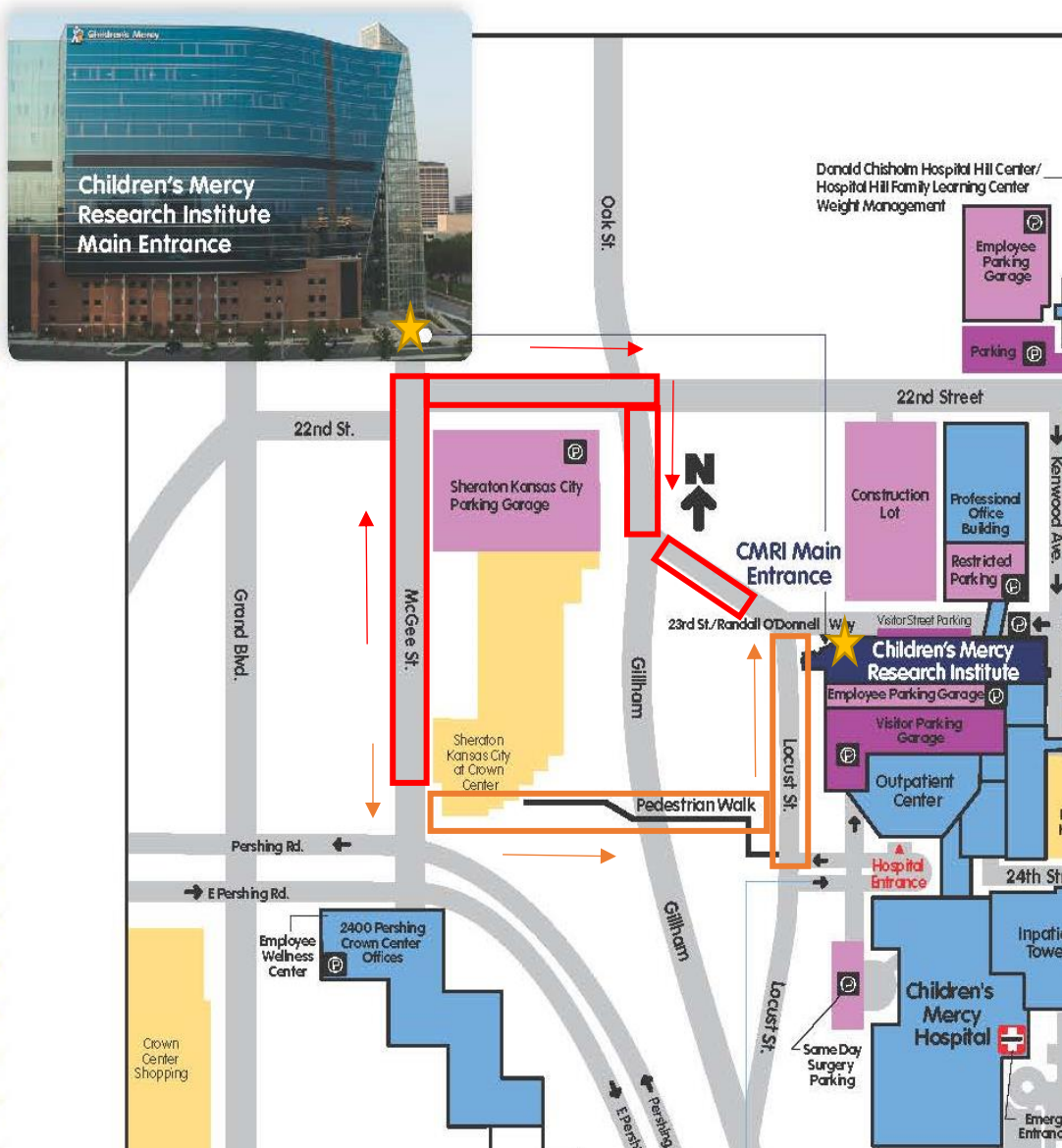
Blue "Reserved" cone:

Park in a spot marked with a blue Reserved Parking cone or any open parking spot.



Children's Mercy Research Institute (CMRI) Walking Directions from the Sheraton Crown Center

2345 McGee St, Kansas City, MO 64108



To search for the Children's Mercy Research Institute only use [Google Maps](#): **585 E. 23rd St, Kansas City, MO 64108**

7 minute walk (path in red)

- Head north on McGee St toward E 23rd St
- Turn right toward E 22nd St
- Turn right onto E 22nd St
- Turn right onto Gillham Rd
- Turn left onto Locust St
- Slight left onto E 23rd St/ Randall O'Donnell Way

Visual of CMRI from walk.

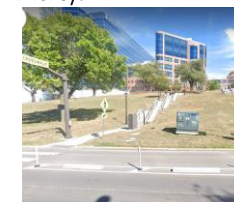


6 minute walk (path in orange)

- Head south on McGee St toward E Pershing Rd
- Turn left onto E Pershing Rd
- Take the stairs to streetlight on Gillham Rd.



- Cross Gillham Rd. and continue upstairs toward Children's Mercy.



- At the top of the stairs turn left down Locust St. toward 23rd St.

Visual of CMRI from walk

