

Heart Institute

Division Details

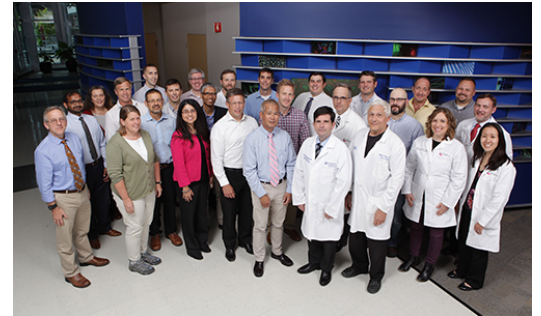
RESEARCH AND TRAINING DETAILS

Faculty	57
Joint Appointment Faculty	2
Research Fellows and Post Docs	24
Research Graduate Students	14
Total Annual Grant Award Dollars	\$13,678,649
Total Annual Industry Award Dollars	\$814,094

CLINICAL ACTIVITIES AND TRAINING

Staff Physicians	2
Clinical Fellows	24
Inpatient Encounters	21,633
Outpatient Encounters	1,611

[🏠 Visit the Heart Institute](#)



Row 1: K Yutzey, J Cnota, H Heydarian, B Blaxall, C Chin, A Redington, J Robbins

Row 2: T Kimball, I Iliopoulos, G Veldtman, D Millay, M Taylor, J Waxman, N Brown, E Hahn

Row 3: R Siegel, F Zafar, S Kirk, J Tretter, D Cooper, R Czosek, G Hill, C Statile, S Hanke, J Molkentin, J Karch, J Jefferies

Publications

1. Kaddourah A; Basu RK; Bagshaw SM; Goldstein SL; Investigators AWARE. **Epidemiology of Acute Kidney Injury in Critically Ill Children and Young Adults.** *The New England journal of medicine.* 2017; 376:11-20.
2. Luongo TS; Lambert JP; Gross P; Nwokedi M; Lombardi AA; Shanmughapriya S; Carpenter AC; Kolmetzky D; Gao E; van Berlo JH. **The mitochondrial Na⁺/Ca²⁺ exchanger is essential for Ca²⁺ homeostasis and viability.** *Nature.* 2017; 545:93-97.
3. Urbina EM; de Ferranti SD. **Lipid Screening in Children and Adolescents.** *Journal of the American Medical Association.* 2016; 316:589-591.
4. Chowdhury D; Gurvitz M; Marelli A; Anderson J; Baker-Smith C; Diab KA; Edwards TC; Hougen T; Jedeikin R; Johnson JN. **Development of Quality Metrics in Ambulatory Pediatric Cardiology.** *Journal of the American College of Cardiology.* 2017; 69:541-555.
5. Taylor MD; Towbin JA. **The Significant Arrhythmia and Cardiomyopathy Burden of Lamin A/C Mutations.** *Journal of the American College of Cardiology.* 2016; 68:2308-2310.

6. Leisner MZ; Madsen NL; Ostergaard JR; Woo JG; Marino BS; Olsen MS. **Congenital Heart Defects and Risk of Epilepsy A Population-Based Cohort Study.** *Circulation*. 2016; 134:1689-1691.
7. Steinberger J; Daniels SR; Hagberg N; Isasi CR; Kelly AS; Lloyd-Jones D; Pate RR; Pratt C; Shay CM; Towbin JA. **Cardiovascular Health Promotion in Children: Challenges and Opportunities for 2020 and Beyond A Scientific Statement From the American Heart Association.** *Circulation*. 2016; 134:e236-e255.
8. Wu B; Wang Y; Xiao F; Butcher JT; Yutzey KE; Zhou B. **Developmental Mechanisms of Aortic Valve Malformation and Disease.** *Annual Review of Physiology*. 2017; 79:21-41.
9. Wang Y; Wu B; Farrar E; Lui W; Lu P; Zhang D; Alfieri CM; Mao K; Chu M; Yang D. **Notch-Tnf signalling is required for development and homeostasis of arterial valves.** *European Heart Journal (Elsevier)*. 2017; 38:ehv520.
10. Mukherjee R; Mareninova OA; Odinkova IV; Huang W; Murphy J; Chvanov M; Javed MA; Wen L; Booth DM; Cane MC. **Mechanism of mitochondrial permeability transition pore induction and damage in the pancreas: inhibition prevents acute pancreatitis by protecting production of ATP.** *Gut*. 2016; 65:1333-1346.
11. Burchill LJ; Huang J; Tretter JT; Khan AM; Crean AM; Veldtman GR; Kaul S; Broberg CS. **Noninvasive Imaging in Adult Congenital Heart Disease.** *Circulation Research*. 2017; 120:995-1014.
12. Cai CL; Molkenkin JD. **The Elusive Progenitor Cell in Cardiac Regeneration Slip Slidin' Away.** *Circulation Research*. 2017; 120:400-406.
13. Liu R; van Berlo JH; York AJ; Vagnozzi RJ; Maillet M; Molkenkin JD. **DUSP8 Regulates Cardiac Ventricular Remodeling by Altering ERK1/2 Signaling.** *Circulation Research*. 2016; 119:249-260.
14. Wallner M; Duran JM; Mohsin S; Troupes CD; Vanhoutte D; Borghetti G; Vagnozzi RJ; Gross P; Yu D; Trapanese DM. **Acute Catecholamine Exposure Causes Reversible Myocyte Injury Without Cardiac Regeneration.** *Circulation Research*. 2016; 119:865-879.
15. Yutzey KE. **Cardiomyocyte Proliferation Teaching an Old Dogma New Tricks.** *Circulation Research*. 2017; 120:627-629.
16. Zhang H; Zhang T; Li S; Guo Y; Shen W; Fernandez C; Harville E; Bazzano LA; Urbina EM; He J. **Long-Term Excessive Body Weight and Adult Left Ventricular Hypertrophy Are Linked Through Later-Life Body Size and Blood Pressure The Bogalusa Heart Study.** *Circulation Research*. 2017; 120:1614-1621.
17. Kanisicak O; Khalil H; Ivey MJ; Karch J; Maliken BD; Correll RN; Brody MJ; Lin SCJ; Aronow BJ; Tallquist MD. **Genetic lineage tracing defines myofibroblast origin and function in the injured heart.** *Nature Communications*. 2016; 7:12260.
18. Quinn ME; Goh Q; Kurosaka M; Gamage DG; Petrany MJ; Prasad V; Millay DP. **Myomerger induces fusion of non-fusogenic cells and is required for skeletal muscle development.** *Nature Communications*. 2017; 8:15665.
19. Kwiatkowski DM; Goldstein SL; Cooper DS; Nelson DP; Morales DLS; Krawczeski CD. **Peritoneal Dialysis vs Furosemide for Prevention of Fluid Overload in Infants After Cardiac Surgery A Randomized Clinical Trial.** *JAMA Pediatrics*. 2017; 171:357-364.
20. Bakeer N; James J; Roy S; Wansapura J; Shanmukhappa SK; Lorenz JN; Osinska H; Backer K; Huby AC; Shrestha A. **Sickle cell anemia mice develop a unique cardiomyopathy with restrictive physiology.** *Proceedings of the National Academy of Sciences of the United States of America*. 2016; 113:E5182-E5191.
21. Gupta MK; Robbins J. **Making the connections: Autophagy and post-translational modifications in cardiomyocytes.** *Autophagy*. 2016; 12:2252-2253.
22. Rydeen AB; Waxman JS. **Cyp26 Enzymes Facilitate Second Heart Field Progenitor Addition and Maintenance of Ventricular Integrity.** *PLoS biology*. 2016; 14:e2000504.

23. Kamal FA; Travers JG; Schafer AE; Ma Q; Devarajan P; Blaxall BC. **G Protein-Coupled Receptor-G-Protein beta gamma-Subunit Signaling Mediates Renal Dysfunction and Fibrosis in Heart Failure.** *Journal of the American Society of Nephrology : JASN.* 2017; 28:197-208.
 24. Goh Q; Millay DP. **Requirement of myomaker-mediated stem cell fusion for skeletal muscle hypertrophy.** *eLife.* 2017; 6:e20007.
 25. Vanhoutte D; Schips TG; Kwong JQ; Davis J; Tjondrokoesoemo A; Brody MJ; Sargent MA; Kanisicak O; Yi H; Gao QQ. **Thrombospondin expression in myofibers stabilizes muscle membranes.** *eLife.* 2016; 5:e17589.
-