

CURRICULUM VITAE

VIDU GARG, MD

PRESENT TITLE AND AFFILIATION

Associate Professor (with tenure)
Department of Pediatrics
The Ohio State University, College of Medicine
Columbus, Ohio

Associate Professor (adjunct)
Department of Molecular Genetics
The Ohio State University, College of Arts and Sciences
Columbus, Ohio

Director
Center for Cardiovascular Research
Research Institute at Nationwide Children's Hospital
Columbus, Ohio

Director of Translational Research
Heart Center
Nationwide Children's Hospital
Columbus, Ohio

Pediatric Cardiologist
Heart Center
Nationwide Children's Hospital
Columbus, Ohio

CITIZENSHIP AND VISA STATUS

U.S. Citizen

OFFICE ADDRESS

The Heart Center & Center for Cardiovascular Research
Nationwide Children's Hospital
700 Children's Drive, WB4221
Columbus, Ohio 43205
Office: (614) 355-5740 Fax: (614) 355-5725
Email: Vidu.Garg@NationwideChildrens.org

EDUCATION

UNDERGRADUATE EDUCATION

6/1988-8/1992 The Pennsylvania State University B.S.
Cooperative Six Year B.S./M.D. Program
University Park, Pennsylvania

GRADUATE EDUCATION

9/1990-6/1994 Sidney Kimmel (Jefferson) Medical College M.D.
Cooperative Six Year B.S./M.D. Program
Thomas Jefferson University
Philadelphia, Pennsylvania

POST-GRADUATE EDUCATION & TRAINING

1994-1997 Nationwide Children's Hospital Internship & Residency in Pediatrics
Columbus, Ohio

1997-2000 Children's Medical Center, Dallas Fellowship in Pediatric Cardiology
UT Southwestern Medical Center
Dallas, Texas

2000-2002 UT Southwestern Medical Center Postdoctoral Research Fellowship in
Dallas, Texas Cardiac Development and
Cardiovascular Genetics

OTHER EDUCATIONAL PROGRAMS

1987 Harvard University Summer Program
Cambridge, Massachusetts

2003 Short Course on Genetic Approaches to Complex Heart, Lung, Blood Diseases
The Jackson Laboratory
Bar Harbor, Maine

2010-2012 Medical Leadership Program
Nationwide Children's Hospital
Columbus, Ohio

ACADEMIC APPOINTMENTS

1994 - 1997	Clinical Instructor Department of Pediatrics The Ohio State University College of Medicine Columbus, Ohio
2000 - 2002	Assistant Instructor Department of Pediatrics, Division of Pediatric Cardiology University of Texas Southwestern Medical Center Dallas, Texas
2002 - 2009	Assistant Professor Department of Pediatrics, Division of Pediatric Cardiology University of Texas Southwestern Medical Center Dallas, Texas
2005 - 2009	Assistant Professor (adjunct) Department of Molecular Biology Graduate School of Biomedical Sciences University of Texas Southwestern Medical Center Dallas, Texas
2005 - 2009	Assistant Professor (adjunct) McDermott Center of Human Growth and Development University of Texas Southwestern Medical Center Dallas, Texas
2005 - 2009	Assistant Professor Integrative Biology Graduate Program University of Texas Southwestern Medical Center Dallas, Texas
2009 - present	Associate Professor (with tenure) Department of Pediatrics The Ohio State University, College of Medicine Columbus, Ohio
2009 – present	Investigator Davis, Heart & Lung Research Institute The Ohio State University, College of Medicine Columbus, Ohio
2010 – present	Associate Professor Molecular, Cellular and Developmental Biology Graduate Program The Ohio State University Columbus, Ohio

2010 – present Associate Professor
Integrated Biomedical Science Graduate Program
The Ohio State University
Columbus, Ohio

2011 – present Associate Professor (adjunct)
Department of Molecular Genetics
The Ohio State University, College of Arts and Sciences
Columbus, Ohio

2014 – present Chair
Scholarship Oversight Committees for Pediatric Cardiology Fellows
Pediatric Cardiology Fellowship Program
Nationwide Children’s Hospital
Columbus, Ohio

2015 – present Advisory Faculty Member
Medical Scientist Training Program (MSTP)
The Ohio State University, College of Medicine
Columbus, Ohio

STATE LICENSURE AND CERTIFICATIONS

LICENSURE

1995 – present State of Ohio Medical License No. 35-06-9464 (active)

1999 – 2010 State of Texas Medical License No. K7020 (inactive)

CERTIFICATIONS

1997 American Board of Pediatrics
Certification, 10/8/1997
Recertification, 11/30/2011 (expires 2016)

2000 Sub-board of Pediatric Cardiology, American Board of Pediatrics
Certification, 8/7/2000
Recertification, 10/9/2007 (expires 2016)

SERVICE

ACADEMIC ADMINISTRATIVE RESPONSIBILITIES

2009 – present Director of Translational Research

	Heart Center, Nationwide Children's Hospital Columbus, Ohio
2009 – present	Chair Research Resource Committee, Heart Center Nationwide Children's Hospital
2009 – present	Member Heart Center Research Steering Committee Nationwide Children's Hospital
2012	Member GME Scholarship Award Review Committee Nationwide Children's Hospital
7/2014 – present	Member Departmental Promotion and Tenure Committee Department of Pediatrics Ohio State University
10/2014 – 09/2015	Interim Director Center for Cardiovascular and Pulmonary Research Nationwide Children's Hospital Columbus, Ohio
10/2015 – present	Director Center for Cardiovascular Research Nationwide Children's Hospital Columbus, Ohio

INSTITUTIONAL/LOCAL ACTIVITIES

2003 – 2004	Member, Department of Pediatrics Fellowship Program Review Committee
2010 - 2013	Member, Institutional Animal Care and Use Committee Research Institute at Nationwide Children's Hospital
2010 - present	Member, Research Conflict of Interest Committee Research Institute at Nationwide Children's Hospital
2010, 2011, 2014	Judge, Davis, Heart & Lung Research Institute Research Day The Ohio State University College of Medicine
2011 - present	Member (alternate), Research Information Technology Advisory Committee

Research Institute at Nationwide Children's Hospital

2011 Member, Bioinformatics Commission
Research Institute at Nationwide Children's Hospital

2011 - 2012 Member, K Award Development Program Committee
Research Institute at Nationwide Children's Hospital

2011 Member, Clinical and Translational Research Conference Committee
Research Institute at Nationwide Children's Hospital

2011 - present Member, Medical Student Research Program - Faculty Advisory Council
The Ohio State University College of Medicine

2012 Member, Review Panel for "Multi-Track Collaborative Center Pilots"
Center for Clinical and Translational Science
The Ohio State University

2012 Member, Search Committee, Vivarium Director
Research Institute at Nationwide Children's Hospital

REGIONAL ACTIVITIES

2007 Member, Clinical Research Advisory Committee
Children's Medical Center Dallas

2008 Member, Grant Award Review Committee
North and Central Texas Clinical and Translational Science Initiative Pilot

2012 – 2013 Member, Program Committee, 22q and You Conference, Nationwide
Children's Hospital

2013 Co-organizer, 2nd Annual Midwest Valve Day, Nationwide Children's
Hospital

2014 Co-organizer, 3rd Annual Midwest Valve Day, Nationwide Children's
Hospital

NATIONAL ACTIVITIES

2003 - 2007 Member, Grant Review Committee
American Heart Association Western States Affiliate

2006 - 2009 Member, Richard D. Rowe Award Selection Committee
Society of Pediatric Research

2008 - 2009	Co-Chair, Grant Review Committee American Heart Association Western States Affiliate
2010	Chair, Grant Review Committee Cardiac Biology-Basic and Clinical Translational (BCT5) American Heart Association
2010	Member, Grant Review Committee Cardiac Biology-Basic and Clinical Translational (BCT4) American Heart Association
2010-2011	Member (ad hoc) NIH – Cardiovascular Differentiation and Development Study Section February 2010, June 2010, and June 2011
2010	Member, NIH Special Emphasis Panel 2011/01 ZHD1 DSR-N (DP) P
2011	Member, NIH Special Emphasis Panel 2011/05 ZHD 1 DSR-Y (50)
2011	Member, NIH Special Emphasis Panel 2011/10 HLBP 1
2011	Member, NIH Special Emphasis Panel 2012/01 ZHL1 CSR-H (F1) 1
2011 - 9/2014	Member, Observational Safety Monitoring Board NHLBI Pediatric Cardiac Genomics Consortium National Institutes of Health (Resigned position to submit application for Consortium membership)
2011 - 2013	Member, Medical Advisory Board Saving tiny Hearts Society Chicago, Illinois
2012	Member, NIH Special Emphasis Panel 2012/05 ZHD1 DSR-Y (53)S
2012 - 2018	Member (permanent) NIH – Cardiovascular Differentiation and Development Study Section
2011 - 2014	Member (Representative of Society of Pediatric Research) Program Committee Pediatric Academic Societies Annual Meeting
2012 - 2015	Member Strategic Planning Meeting Content Subcommittee Society of Pediatric Research
2013	Member, NIH Special Emphasis Panel 2013/05 ZHD1 DSR-Z (LK)

2014	Scientist Reviewer, Peer Reviewed Medical Research Program, Department of Defense
2014-2015	Member, Representative for Society of Pediatric Research Program Chair Nominating Committee Pediatric Academic Societies
2015	Member, Collaborative Science Peer Review Committee American Heart Association
2015-2018	Member (Cardiology representative) Society of Pediatric Research Council
2018-present	Member, Advocacy Committee Society of Pediatric Research

INTERNATIONAL ACTIVITIES

2003	Invited grant reviewer Child Health Research Foundation – New Zealand
2008	Invited grant reviewer Ministero della Salute (Italian Research Foundation)
2012	Invited grant reviewer I-MOVE Fellowship Programme, European COFUND
2014 – present	Member International Weinstein Committee
2017	Co-organizer for meeting in Columbus, Ohio (scheduled) Weinstein Cardiovascular Development Conference

OTHER APPOINTMENTS/RESPONSIBILITIES

2000 – 2009	Pediatric Cardiologist Inpatient Cardiology Ward, Cardiology Consult Service and Outpatient Cardiology Clinic Children’s Medical Center Dallas, Texas
2001 – 2005	Co-Director 22q11 Deletion Syndrome Clinic Children’s Medical Center Dallas, Texas

- 2009 – present Pediatric Cardiologist
 Outpatient Cardiology Clinic
 Inpatient Cardiology Service
 The Heart Center
 Nationwide Children’s Hospital
 Columbus, Ohio
- 2011 – present Pediatric Cardiologist
 22q Center
 Nationwide Children’s Hospital
 Columbus, Ohio
- 2013 – 2014 Faculty Participant
 Career Exploration Week, First Year Medical Students
 Department of Pediatrics, Ohio State University

HONORS AND AWARDS

- 1990 American Heart Association Summer Science Research Fellowship (Portland, Oregon)
- 1992 Hobart Amory Hare Honor Society (Medical School Honor Society)
- 2000 Howard Hughes Medical Institute (HHMI), Postdoctoral Research Fellowship for Physicians (declined)
- 2003 Overall Winner, Young Investigator Molecular Cardiovascular Forum, UT Southwestern
- 2004 Basil O’Connor Starter Scholar Research Award (March of Dimes)
- 2004 Honorable Mention, SPR Richard D. Rowe Award in Perinatal Cardiology
- 2004 APS/SPR Young Investigators Travel Award
- 2005 Society of Pediatric Research (selected)
- 2005 Finalist, Young Investigator Award, American College of Cardiology
- 2005 Richard D. Rowe Award in Perinatal Cardiology, Society of Pediatric Research
- 2005 Reynolds Associate, Donald W. Reynolds Cardiovascular Clinical Research Center
- 2006 Dallas Heart Ball Pediatric Cardiology Clinical Research Award

RESEARCH SUPPORT

ONGOING RESEARCH

1. 1R01HL121797-01 Garg (PI) 4/1/15-3/31/19
NIH/NHLBI
Molecular Mechanisms of Aortic Valve Formation
Total Funding: \$1,495,000
2. 1R01HL109758-01A1 Garg (PI, multi-PI) 9/24/12-7/31/16
NIH/NHLBI
Exome Sequencing and Functional Studies in Familial Congenital Heart Defects
Total Funding: \$2,735,415
3. 1R01HL108173-02 (site, co-I) 6/20/11-3/31/16
NIH/NHLBI (PI, Kannankeril, Vanderbilt University)
Flecainide for Catecholaminergic Polymorphic Ventricular Tachycardia
4. N/A Garg (PI) 1/1/14-12/31/15
Saving tiny Hearts Society
Notch signaling and ascending aortic aneurysm
Total Funding: \$50,000
5. TL1TR001069 Garg (Mentor), Koenig (PI) 5/1/14-4/30/16
NIH/NCATS Ohio State CCTS TL1 Training Award
Role for Notch1 Signaling in Ascending Aortic Aneurysms
Total Funding: \$56,064
6. 15POST25510006 Garg(Mentor), Basu (PI) 7/1/15-6/30/17
American Heart Association – Great Rivers Affiliate
Epigenetic mechanisms underlying maternal diabetes associated cardiac malformations
Total Funding: \$93,000
7. T32HL098039-06A1 Garg(PI), Mohler (PI) 9/1/2015-8/31/2020
Training in Congenital and Acquired Heart Disease
Total Funding: \$1,610,506

COMPLETED RESEARCH

1. K08-HD01382 Garg (PI) 2000-2005
NIH/NICHD
Role of UFD1 and CDC45 in Neural Crest Development
Total Funding: \$540,000
2. NIH/ Pediatric Loan Repayment Program Garg (PI) 2002-2006

3. 5-FY03-157 Garg (PI) 2004-2006
March of Dimes Birth Defects Foundation
Molecular Mechanisms of Cardiac Septation
Total Funding: \$150,000
4. Reynolds Associate Garg (PI) 2005-2006
Donald W. Reynolds Cardiovascular Clinical Research Center
Total Funding: \$38,664
5. 665043Y Garg (PI) 2006-2008
American Heart Association-Texas Affiliate
Molecular Pathways for Cardiac Septa Formation
Total Funding: \$130,000
6. N/A Garg (PI) 2006-2009
Genetic Basis of Congenital Heart Defects
Children's Medical Center Dallas Foundation
Total Funding: \$78,300
7. 01-FY06-381 Garg (PI) 2006-2009
March of Dimes Birth Defects Foundation
Role of GATA4 in Congenital Heart Disease
Total Funding: \$216,720
8. 0725032Y Garg (Mentor), Acharya (PI) 2007-2009
AHA-Texas Affiliate (Postdoctoral Fellowship)
Total Funding: \$88,000
9. N/A Garg (PI) 2008-2010
Children's Heart Foundation
Genetics of Hypoplastic Left Heart Syndrome
Total Funding: \$140,000
10. 1R01HL088965 Garg (PI) 2007-2013
NIH/NHLBI
Genetic Regulation of Cardiac Septation
Total Funding: \$1,897,500
11. American Heart Association Garg(Mentor), Rowland (PI) 2013
Summer Undergraduate Research Fellowship
Total Funding: \$4,000
12. American Heart Association Garg(Mentor), Beeson (PI) 2015
Summer Undergraduate Research Fellowship
Total Funding: \$4,000

PENDING RESEARCH SUPPORT

1. R01 Garg (PI, multi-PI with Drs. Lincoln and Lilly) 4/1/16 – 3/31/21
The Role of Notch in Calcific Aortic Valve Disease
Total Funding: \$3,507,757
2. K23 Backes (PI), Garg (Mentor)
A prospective, randomized controlled trial of closure versus non-closure of a persistent patent ductus arteriosus (PDA)."

PATENTS AND TECHNOLOGY LICENSES

ISSUED PATENTS

1. *NOTCH1* Variants Associated with Cardiovascular Disease. Garg, V. and Srivastava, D. Filed December 20, 2004; WIPO Publication number: WO/2006/078404. Publication Date: 7/27/2006. U.S. Patent Number: US07629121. Published Dec. 8, 2009 Official Gazette of the United States Patent and Trademark Office Patents.

FILED PATENTS

1. Products and Methods for Treating Patients with an Aortic Abdominal Aneurysm. Hans, CP and Garg V. WIPO Publication number: WO/2013/059302. Publication Date: 4/26/2013.
2. Anti-LYST therapeutic immunomodulation. Inventors: Hibino N, Garg V., Breuer CK. Provisional U.S. Serial 61/987,910. Filed May 2, 2014.

PUBLICATIONS

ARTICLES IN PEER REVIEWED JOURNALS

#, corresponding author

1. *Yamagishi H, *Garg V., Matsuoka R, Thomas T, Srivastava D. "A molecular pathway revealing a genetic basis for human cardiac and craniofacial defects." *Science* 283:1158-1161 (1999). *co-first authors
* > 200 citations
2. Garg V., Yamagishi, C, Hu, T, Kathiriya, IS, Yamagishi H, Srivastava D. "*Tbx1*, a DiGeorge syndrome candidate gene, is regulated by Sonic Hedgehog during pharyngeal arch development." *Dev Biol* 235:62-73 (2001).
* > 100 citations

3. Kunte A, Ivey K, Yamagishi C, Garg V, Yamagishi H, Srivastava D. “A common cis-acting sequence in the DiGeorge critical region regulates bi-directional transcription of *UFD1L* and *CDC45L*.” *Mech Dev* 108:81-92 (2001).
4. #Garg V, Kathiriya IS, Barnes R, Schluterman MK, King IN, Butler CA, Rothrock CR, Eapen RS, Hirayama-Yamada K, Joo K, Matsuoka R, Cohen JC, Srivastava D. “GATA4 mutations cause human congenital heart defects and reveal an interaction with TBX5”. *Nature* 424(6947):443-447 (2003).
* > 500 citations
5. #Garg V, Muth AN, Ransom JF, Schluterman MK, Barnes R, King IN, Grossfeld PD, Srivastava D. “Mutations in *NOTCH1* Cause Aortic Valve Disease”. *Nature* 437(7056):270-274 (2005).
* > 500 citations, ** Highly Cited Thomson Reuters Web of Science (Top 1% within its academic field)
6. Garg V. “Insights into the Genetic Basis of Congenital Heart Disease”. *Cell Mol Life Sci*. 63(10):1141-1148 (2006).
7. Schluterman MK, Krysiak AE, Kathiriya IS, Abate N, Chandalia M, Srivastava D, and #Garg V. “Screening and Biochemical Analysis of *GATA4* Sequence Variations in Patients with Congenital Heart Disease”. *Am J Med Genet A* 143(8):817-823 (2007).
8. Rajagopal SK, Ma Q, Obler D, Shen J, Manichaikul A, Tomita-Mitchell A, Boardman K, Briggs C, Garg V, Srivastava D, Goldmuntz E, Broman KW, Benson DW, Smoot L, and Pu WT. “Spectrum of Heart Disease Associated with Murine and Human *GATA4* Mutation”. *J Mol Cell Cardiol* 43(6):677-85 (2007).
* > 100 citations
9. Tomita-Mitchell A, Maslen CL, Morris CD, Garg V, Goldmuntz E. “*GATA4* Sequence Variants in Patients with Congenital Heart Disease” *J Med Genet* 44(12): 779-783 (2007).
10. Richards A, Jaeckle L, Nichols H, Crider B, Elder F, Hauser N, Zinn AR, #Garg, V. Cryptic chromosomal abnormalities identified in children with congenital heart disease and additional birth anomalies. *Pediatr Res* 64(4):358-363 (2008).
11. Ransom JF, King IN, Garg V, and Srivastava, D. “A Rare Human Sequence Variation Reveals Myocardin Autoinhibition” *J Biol Chem*, 283(51):35845-52 (2008).
12. Maitra M, Schluterman MK, Nichols HA, Richardson JA, Lo C, Srivastava D, #Garg, V. “Interaction of Gata4 and Tbx5 is critical for normal cardiac development” *Dev Biol*, 326(2):368-77 (2009).

13. Pan H, Richards AA, Xhu X, Joglar JA, Yin HL, #Garg, V. “A novel mutation in LAMIN A/C is associated with isolated early-onset atrial fibrillation and progressive atrioventricular block followed by cardiomyopathy and sudden cardiac death” *Heart Rhythm*, 6(5):707-710 (2009).
14. Maitra M, Koenig SN, Srivastava D, #Garg, V. “GATA6 Sequence Variations in Human Congenital Heart Disease” *Pediatr Res* 68(4):281-85 (2010).
15. Yu S, Poe B, Schwarz M, Elliot S, Albertine KH, Fenton S, Garg V, Moon AM “Fetal and post-natal lung defects reveal a novel and required role for Fgf8 in lung development” *Dev Biol*, 347(1): 92-108 (2010).
16. McBride KL and #Garg V. Impact of Mendelian Genetics in Cardiovascular Disease. *Ann N Y Acad Sci*, 1214(1):122-37 (2010).
17. Acharya A, Hans CP, Koenig SN, Nichols HA, Galindo C, Garner HR, Merrill WH, Hinton RB, #Garg, V. “Inhibitory role of Notch1 in calcific aortic valve disease is mediated by Sox9.” *PLoS One* 6(11):e27743 (2011).
18. Bhoj EJ, Ramos P, Baker LA, Garg V, Cost N, Nordenskjöld A, Elder FF, Bleyl SB, Bowles NE, Arrington CB, Delhomme B, Vanhoutteghem A, Djian P, Zinn AR. “Human balanced translocation and mouse gene inactivation implicate Basonuclin 2 in distal urethral development.” *Eur J Hum Genet* 19(5):540-6 (2011) and 20(2);249 (2012).
19. Roach JC, Glusman G, Hubley R, Montsaroff SZ, Holloway AK, Mauldin DE, Srivastava D, Garg V, Pollard KS, Galas DJ, Hood L, Smit AF. “Chromosomal haplotypes by genetic phasing of human families” *Am J Hum Genet* 89(3):382-397 (2011).
20. Payne AR, Chang S, Koenig SN, Zinn AR, #Garg V. “Submicroscopic Chromosomal Copy Number Variations Identified in Children with Hypoplastic Left Heart Syndrome.” *Ped Cardiol* 33(5):757-63 (2012).
21. Misra C, Sachan N, McNally CR, Koenig SN, Nichols HA, Guggilam A, Lucchesi PA, Pu WT, Srivastava D, #Garg V. “Congenital heart disease-causing Gata4 mutation displays functional deficits in vivo.” *PLoS Genet*, 8(5):e1002690 (2012).
22. Hans CP, Koenig SN, Huang N, Cheng J, Beceiro S, Guggilam A, Kuivaniemi H, Partida-Sanchez S, and #Garg V. Inhibition of Notch1 Signaling Reduces Abdominal Aortic Aneurysm in Mice by Attenuating Macrophage-Mediated Inflammation. *Arterioscler Thromb Vasc Biol*, 32:3012-3023 (2012).
23. Pediatric Cardiac Genomics Consortium, et al (Garg, V. listed as a co-author). The Congenital Heart Disease Genetic Network Study: rationale, design, and early results. *Circ Res* 112(4):698-706 (2013).
24. Bosse K, Hans CP, Zhao N, Koenig SN, Huang N, Guggilam A, LaHaye S, Tao G,

- Lucchesi PA, Lincoln J, Lilly B, #Garg V. Endothelial nitric oxide signaling regulates Notch1 in aortic valve calcification. *J Mol Cell Cardiol* 60:27-35 (2013).
25. Chang SW, Mislankar M, Misra C, Huang N, DaJusta DG, Harrison SM, McBride KL, Baker LA, #Garg V. Genetic abnormalities in *FOXP1* are associated with congenital heart defects. *Hum Mutat* 34(9):1226-30 (2013).
 26. Bonachea, EM, Chang SW, Zender G, LaHaye S, Fitzgerald-Butt S, McBride KL, #Garg V. GATA5 Sequence Variants Identified in Individuals with Bicuspid Aortic Valve. *Pediatr Res* 76(2):211-216 (2014).
 27. Hu H, Roach JC, Coon H, Guthery SL, Tavgigian S, Shankaracharya, Wu W, Xing J, Glusman G, Hubley R, Li H, Garg V, Moore B, Holloway A, Hood L, Pollard KS, Galas DJ, Srivastava D, Reese MG, Jorde LB, Yandell M, Huff CD. A Unified Test for Linkage Analysis and Rare-Variant Association. *Nat Biotechnol* 32(7):663-669 (2014).
 28. Bonachea EM, Zender G, White P, Corsmeier D, Newsom D, Fitzgerald-Butt S, Garg V, McBride KL. Use of a Targeted, Combinatorial Next-Generation Sequencing Approach for the Study of Bicuspid Aortic Valve. *BMC Medical Genomics*, 7(56) (2014).
 29. Lincoln J and #Garg V. Etiology of Heart Valve Disease: Genetic and Developmental Origins. *Circ J*. 78(8):1801-1807 (2014).
 30. Cheng J, Koenig SN, Kuivaniemi H, Garg V, Hans CP. Notch Inhibition Stabilizes the Progression of Small Abdominal Aortic Aneurysm in a Mouse Model. *J Am Heart Assoc*, 3(6):e001064 (2014).
 31. Misra C, Chang SW, Basu M, Huang N, #Garg V. Disruption of myocardial Gata4 and Tbx5 results in defects in cardiomyocyte proliferation and atrioventricular septation. *Hum Mol Genet*, 23(19):5025-35 (2014).
 32. Zhao N, Koenig SN, Trask AJ, Lin CH, Hans CP, Lucchesi PA, Garg V, Lilly B. miR-145 regulates TGFBR2 expression and matrix synthesis in vascular smooth muscle cells. *Circ Res*, 116(1):23-34 (2015).
 33. Fry KM, Gerhardt CA, Ash J, Zaidi AN, Garg V, McBride KL, Fitzgerald Butt S. Rates of Sexual Debut and Contraception Use among Adolescents and Young Adults with Congenital Heart Disease. *J Adolesc Health*, 56(4):396-401 (2015).
 34. Koenig SN, Bosse K, Nadorlik HA, Lilly B, #Garg V. Mouse model for bicuspid aortic valve-associated ascending aortic aneurysms. *J Cardiovasc Development Dis*. 2: 17-30 (2015).
 35. Hinton RB, McBride KL, Bleyl SB, Bowles NE, Border WL, Garg V, Smolarek TA, Lalani SR, Ware SM. Rationale for the Cytogenetic of Cardiovascular Malformations

- Consortium: a Phenotype Intensive Registry Based Approach. *J Cardiovasc Development Dis.* 2(2):76-92 (2015).
36. Horne TE, VandeKopple M, Sauls K, Koenig SN, Anstine LJ, Garg V, Norris RA, Lincoln J. “Dynamic heterogeneity of the heart valve interstitial cell population in health and disease.” *J Cardiovasc Development Dis.* 2(3):214-232 (2015).
 37. Fitzgerald-Butt S, Bodine A, Klima J, Fry KM, Ash J, Zaidi AN, Garg V, Gerhardt CA, McBride KL. Measuring Genetic Knowledge: Validation of a Brief Survey Instrument for Adolescents and Adults. *Clin Genet.* *Accepted.*
 38. Backes CH, Huang H, Cua C, Garg V, Galantowicz M, Bauer JA, Hoffman TH. Umbilical Cord Clamping in Infants with Congenital Heart Disease. *J Perinatology*, 35(10):826-831 (2015).

MANUSCRIPTS SUBMITTED OR IN PREPARATION FOR PUBLICATION

1. LaHaye S, Corsemeier D, Basu M, Bowman JL, Fitzgerald-Butt S, Zender G, Bosse K, McBride KL, White P and Garg V. Utilization of Whole-Exome Sequencing to Identify Causative Mutations in Familial Congenital Heart Disease. *Submitted to Circulation.*
2. Bosse K, Koenig SN, Bonachea EM, Radtke F, Garg V. Endothelial Notch1 is required for proper remodeling of the aortic valve. *In preparation.*
3. Cordes-Metzler KR, Zhou P, Bui Y, Garg V, Srivastava D. Modeling Smooth Muscle Vascular Disease by Direct Reprogramming of Patient-specific Dermal Fibroblasts. *In preparation.*
4. Mital S, Musunuru K, Ackerman MJ, Ashley E, Fox C, Garg V, Gupta R, Hickey K, Lanfear D, Perez M, Roden D, Russell M, Ware S, Woo D. “Cardiovascular Genetics Education: A Scientific Statement from the American Heart Association”. *In preparation.*
5. Backes CH, Cheatham SL, Deyo GM, Leopold S, Ball MK, Yin H, Garg V, Holzer RH, Cheatham JP, Berman DP. “Percutaneous Patent Ductus Arteriosus Closure in Low Weight Infants”. *In preparation.*

INVITED ARTICLES

1. Srivastava D and Garg V. “Potential for fetal gene therapy in congenital heart disease.” *Frontiers in Fetal Health* 3(7):211-212 (2001).

2. Garg V. “Molecular Genetics of Aortic Valve Disease”. *Curr Opin Cardiol* 21(3): 180-184 (2006).
3. Richards AA and #Garg V. Genetics of Congenital Heart Disease. *Curr Cardiol Rev*, 6(2):91-97 (2010).
4. LaHaye S, Lincoln J, #Garg V. Genetics of Valvular Heart Disease. *Curr Card Rep* 16(6):487 (2014).

EDITORIALS

1. McBride KL and #Garg V. Heredity of Bicuspid Aortic Valve: Is Family Screening Indicated? *Heart*, 97(15):1193-1195 (2011).
2. Misra C and #Garg V. Compacting the heart with Notch. *Nat Med*, 19(2):133-134 (2013).
3. #Garg V., Basu M. Beyond genetics: focusing on maternal environment for congenital heart disease prevention. *Evid Based Med* 19(2):e8 (2014).

PUBLISHED ABSTRACTS

1. Garg V., Yamagishi H, Thomas T, and Srivastava, D. “*COT-22 (Cardiac Outflow Tract Gene on Chromosome 22)*, a candidate gene for the CATCH-22 syndrome.” *Circulation supp.* 1998;98(17):I-757.
2. Garg V., Tyson B, Mjaatvedt C, and Srivastava, D. “dHAND and versican(hdf) function in a common pathway regulating right ventricle development.” *Circulation supp.* 1999;100(18):130.
3. Garg V., Kathiriyia IS, Barnes R, Schluterman MK, Butler CA, King IN, Rothrock CR, Eapen, RS, Hobbs HH, Cohen JC, and Srivastava, D. “A Mutation in the Cardiac Transcription Factor, *GATA4*, Results in Decreased DNA Binding Affinity in Patients with Non-Syndromic Cardiac Septal Defects”. *Pediatric Research* 2003; 53(4): 33A.
4. Garg V., Kathiriyia IS, Barnes R, Schluterman MK, King IN, Butler CA, Rothrock CR, Eapen, RS, Hirayama-Yamada K, Joo K, Matsuoka R, Cohen JC, and Srivastava D. “GATA4 Mutations Cause Human Congenital Heart Defects and Reveal an Interaction with *TBX5*”. *Circulation supp.* 2003; 108(17): IV-141-142.

5. Garg V, Schluterman MK, Kathiriya IS, Butler CA, Matsuoka R, Bruneau B, Olson EN, Cohen JC, and Srivastava, D. “The Role of *GATA4* in Congenital Heart Disease”. *Pediatric Research* 2004; 55(4):47A.
6. Garg V, Schluterman MK, Bruneau B, Olson EN, Srivastava D. “Interaction of Gata4 and Gata6 with Tbx5 is critical for normal cardiac development”. *Circulation supp.* 2004;110(17):60.
7. Ivey KN, Garg V, Garcia J, Zhao F, Gelb BD, Srivastava D. “Hif2 alpha, Ap-2 beta, and Et-1 cooperatively regulate development of the ductus arteriosus”. *Circulation supp* 2004;110(17):59.
8. Garg V, Muth AN, Schluterman MK, Barnes R, King IN, Chan KL, Bulman DE, Grossfeld, PD, and Srivastava D. “Mutations in *NOTCH1* Cause Congenital Cardiac Malformations”. *J of Am Coll Card supp* 2005; 45(3): 444A.
9. Garg V, Heistein L C, Eapen RS, Muth AN, Schluterman MK, Barnes R, King IN, Chan KL, Bulman DE, Peshock R, Grossfeld PD, and Srivastava D. “Mutations in *NOTCH1* Cause Congenital and Adult Cardiac Disease”. *Pediatric Research* 2005.
10. Garg V, Eapen RS, Muth AN, Heistein LC, Ransom JF, Schluterman MK, Barnes R, King IN, Ahmad N, Chan KL, Bulman DE, Peshock R, Grossfeld PD, and Srivastava D. “Mutations in *NOTCH1* Cause Congenital and Adult Cardiac Disease”. *Circulation supp.* 2005;112(17): U576.
11. Crittendon I, Eapen RS, Ahmad N, Chan KL, Bulman DE, Srivastava D and Garg V. “*NOTCH1* Mutations and Cardiovascular Disease”. *Pediatric Research* 2006.
12. McKellar SH, Yagubyan M, Majumdar R, Tester DJ, de Andrade, M, Garg V, Ackerman MJ, and Sundt TM. Identification of a Novel Susceptibility Locus at 9q21 for Familial Bicuspid Aortic Valve Disease. *Circulation supp* 2007; 116(16):368.
13. Richards A, Jaeckle L, Nichols H, Crider B, Elder F, Hauser N, Zinn AR, and Garg V. Cryptic chromosomal abnormalities identified in children with congenital heart disease and additional birth anomalies. *J of Am Coll Card supp.* 2008.
14. Sachan N, McNally CR, Pu WT, Srivastava D, and Garg V. The Human *GATA4* G296S mutation disrupts mouse cardiac morphogenesis. *Circulation supp* 2008; 118(18):S419.
15. Cosy NG, Keohane E, Maitra M, Zhang SH, Garg V, Zinn AR, Baker LA. Expression Patterns of Basonuclin 2 in Penile Tissue. *Journal of Urology* 2009; 181(4): 253.
16. Sahu A, Garg V, Boettner B, and Cook SC. Absence of abdominal aneurysm in adults with coarctation and/or bicuspid aortic valve – is this really an aortopathy? *J of Am Coll Card supp.* 2010; 55(10A): A40.E382.

17. Hans CP, Koenig SN, Garg V. Inhibition of Notch Reduces Incidence of Aortic Abdominal Aneurysm by Preventing Macrophage-Mediated Inflammation. *Circulation supp* 2011; 124(21):A12934. ** AHA ATVB Council Travel Award
18. Hans CP, Koenig SN, Huang N, Garg V. Notch Inhibition Prevents the Progression of Small Abdominal Aortic Aneurysms in AngII-Induced Mouse Model. *Circ Res supp* 2012; 111(12):E387.
19. Metzler, KRC, Zhou P, Bui Y, Garg V, Srivastava D. Modeling Smooth Muscle Vascular Disease by Direct Reprogramming of Patient-Specific Dermal Fibroblasts. *Circulation supp* 2013; 128(22):13179.
20. Chang SW, Misra C, Huang H, Pu WT, Garg V. Disruption of the Myocardial Gata4 and Tbx5 Interaction Results in Defects in Cardiomyocyte Proliferation and Atrioventricular Septation. *Circulation supp* 2013; 128(22):14621.
21. Bosse KM, Koenig SN, Huang H, Garg V. Examination of a Highly Penetrant Mouse Model of Bicuspid Aortic Valve Demonstrates that Endothelial Notch1 is Required for Proper Morphogenesis of the Aortic Valve. *Circulation supp* 2013; 128(22):18574.
22. Koenig SN, Bosse K, Huang H, Garg V. A mouse model for bicuspid aortic valve-associated ascending aneurysm. *Angiogenesis* 2014; 17(1):318.
23. Metzler, KRC, Zhou P, Bui Y, Garg V, Srivastava D. Modeling Smooth Muscle Vascular Disease by Direct Reprogramming of Patient-Specific Dermal Fibroblasts. *Angiogenesis* 2014; 17(1):320.
24. Basu M, Bosse K, Garg V. Notch1 Haploinsufficiency Increases Risk of Congenital Heart Defects in the Setting of Maternal Diabetes by an Epigenetic Mechanism. *Circulation supp* 2014; 130:A19285
25. LaHaye S, Corsemeier D, Bowman JL, Fitzgerald-Butt S, Zender G, Bosse K, McBride KL, White P and Garg V. Utilization of Whole-Exome Sequencing to Identify Causative Mutations in Familial Congenital Heart Disease. *Circulation supp* 2015. ** AHA FGTVB Council Travel Award
26. Bosse K, Koenig SN, Bonachea EM, Radtke F, Garg V. Endothelial Notch1 is required for proper remodeling of the aortic valve. *Circulation supp* 2015. ** AHA ATVB Council Travel Award

BOOK CHAPTERS

1. #Garg V and Srivastava D. “Cardiac development and congenital heart disease.” *American College of Cardiology Self Assessment Program V* (2002).

2. Garg, V and Srivastava, D. “Genetic Underpinnings of Cardiogenesis and Congenital Heart Disease”. Eds. C. Patterson and M. Runge in *Principles of Molecular Cardiology*. Springer-Verlag, New York (2005).
3. Garg, V. “Growth of the Normal Human Heart” Ed. Victor R. Preedy. *Handbook of Growth and Growth Monitoring in Health and Disease*. Springer, New York, (2011).
4. Garg, V. “The molecular basis of cardiac development and congenital heart disease” Eds. C. Patterson and M.S. Willis in *Molecular and Translational Cardiology*. Springer - Humana Press, New York (2012).
5. Bonachea EM, Vaughn CE and Garg V. “Genetics of Congenital Heart Disease”. *Cardiovascular Genetics and Genomics in Clinical Practice*. Eds. Donna K. Arnett and Sanjiv J. Shah. Demos Medical Publishing (2014).
6. Garg, V. “Notch signaling in aortic valve development and disease”. *Etiology and Morphogenesis of Congenital Heart Disease*. Eds. Srivastava D, Baldwin HS, Keller BB, Markwald R, Yamagishi H, Nakanishi T. *In Press*.

OTHER

1. #Garg V and Srivastava D. “22q11 deletion syndrome.” *Pediatric Society of Greater Dallas Newsletter* (2001).

EDITORIALS AND REVIEW ACTIVITIES

EDITOR/SERVICE ON EDITORIAL BOARD(S)

2012-present Member of Advisory Editorial Board
Pediatric Cardiology

2014-present Section Editor, Clinical and Translational Cardiovascular Medicine
Clinical and Translational Medicine

2015-present Member of Editorial Board (Cardiology)
Pediatric Research

JOURNAL REVIEWER (*Ad hoc*)

* High impact journals are underlined.

2003 Molecular Genetics and Metabolism

- 2004 Journal of Medical Genetics, Physiological Genomics
- 2005 Future Cardiology, Proceedings of National Academy of Sciences
- 2006 American Heart Journal, BMC Medical Genetics, Congenital Heart Disease, Circulation, Proceedings of National Academy of Sciences
- 2007 Clinical Genetics, Congenital Heart Disease, European Journal of Human Genetics, Proceedings of National Academy of Sciences, Journal of American College of Cardiology, Journal of Cellular and Molecular Medicine, Pediatric Cardiology, Pediatric Research, QJM International Journal of Medicine,
- 2008 Journal of Medical Genetics, Physiological Genomics, Archives of Medical Research, Congenital Heart Disease, Journal of American College of Cardiology, Journal of Medical Genetics, Pediatric Cardiology, Physiological Genomics
- 2009 American Journal of Cardiology, American Journal of Human Genetics, American Journal of Medical Genetics, Circulation (4), Current Molecular Medicine, Human Molecular Genetics (4), Heart Rhythm (2), Journal of Molecular Medicine, Journal of Pediatrics, Pediatric Cardiology (2)
- 2010 American Journal of Medical Genetics (5), Cardiology in the Young (2), Circulation Cardiovascular Genetics (3), Circulation (3), Disease Markers, Heart Rhythm (2), Journal of American Medical Association (JAMA), Journal of Pediatrics, Life Sciences, Cell Biochemistry and Biophysics, Pediatrics, Pediatric Cardiology, Pediatric Research
- 2011 Human Mutation (2), American Journal of Medical Genetics, Circulation (4), Circulation Cardiovascular Genetics, Clinical Genetics, Heart, Journal of Molecular and Cellular Cardiology (4), Journal of Pediatrics, Pediatric Cardiology, Pediatrics (3)
- 2012 American Journal of Cardiology, American Journal of Medical Genetics (3), Birth Defects Research Part A: Clinical and Molecular Teratology, Circulation Cardiovascular Genetics (3), Circulation, Congenital Heart Disease, Human Molecular Genetics, Journal of American Medical Association (JAMA), Nature Medicine, Pediatric Cardiology, Pediatrics, PLoS Genetics (2), PLoS One (2), Translational Research
- 2013 American Journal of Cardiology, American Journal of Human Genetics, American Journal of Medical Genetics (2), Arteriosclerosis, Thrombosis, and Vascular Biology (2), Journal of Cardiovascular Translational Research, Circulation Cardiovascular Imaging (3), Circulation Research, Cellular Molecular Life Sciences, Congenital Heart Disease, Experimental Cell Research, Genesis, Human Molecular Genetics, Human Genetics, Journal of Molecular Cellular Cardiology, Nature Genetics (2), Nature Medicine (2), Pediatric Cardiology (2), Pediatrics, Pediatric Research, PLoS Genetics, PLoS One, Proceedings of National Academy of Sciences (2)

- 2014 American Journal of Cardiology, American Journal of Medical Genetics (4), Birth Defects Research Part A: Clinical and Molecular Teratology, Circulation (2), Circulation Cardiovascular Genetics (2), Circulation Research (2), FASEB (2), Journal of American College of Cardiology (2), Journal of Cardiac Failure, Journal of Pediatrics, Nature, Pediatric Cardiology (4), Scientific Reports
- 2015 Nature, JAMA Pediatrics, Pediatric Cardiology, PLoS One(2), Journal of American Heart Association, Pediatric Research, American Journal of Medical Genetics(2), Gene, Human Mutation (2), Journal of Cardiovascular Development and Disease, Genetics in Medicine, American Journal of Human Genetics

- # of manuscripts reviewed that year are indicated in parentheses if greater than one.

BOOK CHAPTER AND THESIS REVIEWER

- 2007 Reviewer (book chapter), Congenital Heart Defects: From Origin to Treatment (Oxford University Press)
- 2012 Thesis Examiner (Mahdi Moradi Marjaneh), University of New South Wales Graduate Research School, Australia

ABSTRACT REVIEWER

- 2004-2006, 2008, 2010-2012 Reviewer
American Heart Association Scientific Sessions
- 2007, 2011-14 Reviewer
Pediatric Academic Society & Asian Society for Pediatric Research Meeting

TEACHING

COURSES TAUGHT

- 2000-2005 Lecturer
Cardiovascular ICU Nursing Core Lecture Series
Children's Medical Center Dallas
- 2002 Lecturer
Acute Care Pediatric Nurse Practitioner Program
University of Texas at Arlington
- 2004-2009 Lecturer
Medical Embryology Course

UT Southwestern Medical School

2005 Discussion Leader
Medical Genetics Course
UT Southwestern Medical School

2006-2009 Lecturer
Neonatology Fellows Physiology/Pathophysiology course
Division of Neonatology, Department of Pediatrics
UT Southwestern Medical School

2006-2009 Discussion Leader
Pediatrics in Review
UT Southwestern Pediatrics Residency Program

2007-2009 EKG teaching
UT Southwestern Medical School/Pediatrics Residency Program

2008-2009 Discussion Leader
Fellows Core Course
UT Southwestern Department of Pediatrics

2005 Reader
Core Course – Research Paper
UT Southwestern Graduate School of Biomedical Sciences

2005-2009 Lecturer and Discussion Leader
Advanced Human Genetics Course
UT Southwestern Graduate School of Biomedical Sciences

2006-2009 Lecturer and Discussion Leader
Gene Transcription Course
UT Southwestern Graduate School of Biomedical Sciences

2007-2009 Discussion Leader
Integrative Biology Journal Club (Human Genetics and Diseases)
UT Southwestern Graduate School of Biomedical Sciences

2008-2009 Lecturer
Human Biology and Disease
UT Southwestern Graduate School of Biomedical Sciences

2011 Lecturer
NIH/NHLBI T32 Cardiovascular Seminar Series
“Development of the Heart” (1/6/2011)
“Congenital Heart Defects” (5/5/2011)

- 2011 - 2013 Lecturer
Heart Center Didactic Conference for Pediatric Cardiology Fellows
“Congenital Heart Defects & Genetics” (3/14/11 & 2/25/13)
“Hypertrophic Cardiomyopathy” (6/11/12)
- 2011 Instructor
MCDB 800 (Fall quarter)
Ohio State University
- 2012 Lecturer
Advanced Cardiac Physiology Seminar Series
“Heart Development” on 1/3/2012, 1/8/16 (scheduled)
Nationwide Children’s Hospital

OTHER EDUCATIONAL PROGRAMS

- 2000 – 2009 Bedside Instruction
Medical students, Pediatric residents and Pediatric Cardiology Fellows
University of Texas Southwestern Medical Center
Children’s Medical Center of Dallas
Dallas, Texas
- 2009 – present Bedside Instruction
Medical students, Pediatric residents and Pediatric Cardiology Fellows
Ohio State University College of Medicine
Nationwide Children’s Hospital
Dallas, Texas

PRESENTATIONS

INTERNATIONAL

1. Invited speaker, “Potential for Fetal Gene Therapy in Congenital Heart Disease”
Advances in Fetal and Perinatal Cardiology Symposium. Toronto, Ontario, Canada
May 26, 2001
2. Invited speaker, “Mouse Mutations in Human Disease”
3rd World Congress of Pediatric Cardiology and Cardiac Surgery. Toronto, Ontario,
Canada
May 28, 2001
3. Invited speaker, “Molecular Insights from Human Congenital Heart Disease”
International Society for Heart Research American Section. Toronto, Ontario, Canada
June 15, 2006

4. Invited speaker, “Genetic Abnormalities in Congenital Heart Disease”
Pediatric Academic Societies Annual Meeting, Vancouver, BC, Canada.
May 2, 2010
5. Invited speaker, “Notch signaling in aortic valve development and disease”
7th TAKAO International Symposium on Etiology and Morphogenesis of Congenital
Heart Disease, Tokyo, Japan.
July 15, 2013
6. Invited Moderator, “Congenital Heart Disease Genetics: where we are, and where we
would like to go”
Pediatric Academic Societies Annual Meeting, Vancouver, BC, Canada
May 2, 2014
7. Invited speaker, “Etiology of Birth Defects: The Importance of Genomics”
OSU-India H3C: Health Sciences Innovation Conference, Mumbai, India.
January 13, 2015
8. Invited speaker, Michael Potter & Family Endowed Cardiovascular Genetics Lectureship
University of Ottawa Heart Institute, Ottawa, ON Canada
January 25, 2016 (scheduled)

NATIONAL

1. Invited Abstract Presenter, Garg, V., Yamagishi, H., Thomas, T., and Srivastava, D.
“*COT-22* (Cardiac Outflow Tract Gene on Chromosome 22), a candidate gene for the
CATCH-22 syndrome.”
American Heart Association 71st Scientific Sessions, Dallas, TX.
November 1998.
2. Invited speaker, “Tbx1, a DiGeorge Syndrome Candidate Gene, is Regulated by Sonic
Hedgehog During Pharyngeal Arch Development”
Weinstein Cardiovascular Development Conference, Dallas, TX
May 8, 2001
3. Invited Abstract Presenter, Garg, V., Kathiriya, I.S., Barnes, R., Schluterman, M.K.,
Butler, C. A., King, I.N., Rothrock, C.R., Eapen, R.S., Hobbs, H.H., Cohen, J.C., and
Srivastava, D. “A Mutation in the Cardiac Transcription Factor, *GATA4*, Results in
Decreased DNA Binding Affinity in Patients with Non-Syndromic Cardiac Septal
Defects”.
Pediatric Academic Societies Annual Meeting. Seattle, WA.
May 2003.

4. Invited speaker, "GATA4 Mutations Cause Human Congenital Heart Defects and Reveal an Interaction with TBX5"
Weinstein Cardiovascular Development Conference, Boston, MA
May 13, 2003
5. Invited Abstract Presenter, Garg, V., Kathiriya, I.S., Barnes, R., Schluterman, M.K., King, I.N., Butler, C. A., Rothrock, C.R., Eapen, R.S., Hirayama-Yamada, K., Joo, K., Matsuoka, R., Cohen, J.C., and Srivastava, D. "GATA4 Mutations Cause Human Congenital Heart Defects and Reveal an Interaction with TBX5".
American Heart Association Scientific Sessions, Orlando, FL.
November 2003.
6. Invited speaker, "The Role of GATA4 in Congenital Heart Disease"
Molecular Biology of Cardiac Disease (X3) and Cardiac Development and Congenital Heart Disease (X4), Keystone Symposium, Keystone, CO
March 9, 2004
7. Invited Abstract Presenter, Garg, V., Schluterman, M.K., Kathiriya, I.S Butler, C. A., Matsuoka, R. Bruneau, B., Olson, E.N., Cohen, J.C., and Srivastava, D. "The Role of *GATA4* in Congenital Heart Disease". (Honorable Mention, SPR Richard D. Rowe Award in Perinatal Cardiology and APS/SPR Young Investigators Travel Award).
Pediatric Academic Societies Annual Meeting. San Francisco, CA.
May 2004.
8. Invited Abstract Presenter, Garg, V., Schluterman, M.K., Bruneau, B, Olson, E.N., Srivastava, D. "Interaction of Gata4 and Gata6 with Tbx5 is critical for normal cardiac development".
American Heart Association Scientific Sessions, New Orleans, LA.
November 2004.
9. Invited Abstract Presenter, Garg, V., Muth, A.N., Schluterman, M.K., Barnes, R., King, I.N., Chan, K.L., Bulman, D.E., Grossfeld, P.D., and Srivastava, D. "Mutations in *NOTCH1* Cause Congenital Cardiac Malformations". (Finalist, Young Investigator Award).
54th Annual Scientific Session, American College of Cardiology. Orlando, FL.
March 2005.
10. Invited Abstract Presenter, Garg, V., Heistein, L. C., Eapen, R. S., Muth, A.N., Schluterman, M.K., Barnes, R., King, I.N., Chan, K.L., Bulman, D.E., Peshock, R., Grossfeld, P.D., and Srivastava, D. "Mutations in *NOTCH1* Cause Congenital and Adult Cardiac Disease". (Winner, Richard D. Rowe Award).
Pediatric Academic Societies Annual Meeting. Washington, D.C.
May 2005.
11. Invited Abstract Presenter, Garg, V., Eapen, R. S., Muth, A.N., Heistein, L. C., Ransom, J.F., Schluterman, M.K., Barnes, R., King, I.N., Ahmad, N., Chan, K.L., Bulman, D.E.,

- Peshock, R., Grossfeld, P.D., and Srivastava, D. "Mutations in *NOTCH1* Cause Congenital and Adult Cardiac Disease".
American Heart Association Scientific Sessions, Dallas, TX.
November 2005.
12. Invited speaker, "Insights from Human Congenital Heart Disease"
Cardiovascular Seminar Series, Children's Hospital, Boston, MA
June 27, 2006
 13. Invited speaker, "How it all begins: Cardiac Development"
American College of Cardiology 57th Annual Scientific Session, Mini-symposium:
"Translational medicine in childhood heart disease" Chicago, IL
March 31, 2008
 14. Invited speaker, "New Approaches for Gene Discovery in Pediatric Disease"
Pediatric Academic Societies Annual Meeting, Mini-symposium: "Emerging
technologies and pediatric disease" Honolulu, Hawaii
May 5, 2008
 15. Invited speaker, "NOTCH1 and Cardiovascular Disease"
Notch Mini-Symposium, Burnham Institute, "San Diego, CA.
July 21, 2008
 15. Invited speaker, "Uncovering Genetic Origins of Congenital Heart Disease"
Department of Pediatrics Seminar, University of California at San Diego, San Diego, CA.
July 22, 2008
 16. Invited Moderator, "Fetal Origins of Cardiac Malformations: Can the Phenotype Be
Reversed?" American Heart Association Scientific Sessions, New Orleans, LA
November 9, 2008
 17. Invited speaker, "Uncovering Genetic Origins of Congenital Heart Disease"
Child Health Research Seminar Series, Research Institute at Nationwide Children's
Hospital, Columbus, OH.
January 22, 2009
 18. Invited speaker, "Clinicians and Basic Science - Can it be Successful?"
Pediatric Cardiology and Congenital Heart Disease Career Session, American College of
Cardiology, Orlando, FL.
March 29, 2009
 19. Invited speaker, "NOTCH Signaling and Aortic Disease"
Aortic Disease Summit, Baltimore, MD.
September 22, 2009
 20. Invited faculty participant

National Marfan Foundation Therapeutic Strategy Meeting, Baltimore, MD
September 23, 2009

21. Invited speaker, "Copy Number Variation in Human Disease"
American Heart Association Scientific Sessions/International Congress on Genetics and Genomics of Cardiovascular Disease, Orlando, FL.
November 16, 2009
22. Invited speaker, "Genetics of Congenital Heart Defects: Current Knowledge & Future Developments"
Heart Institute, Cincinnati Children's Medical Center, Cincinnati, OH.
December 6, 2010
23. Invited speaker, "Uncovering Genetic Contributors for Congenital Heart Disease"
Cardiovascular Molecular Biology Seminar, Cincinnati Children's Medical Center, Cincinnati, OH.
December 6, 2010
24. Invited speaker, "Endothelial nitric oxide signaling regulates Notch1 in aortic valve development and disease"
Keystone Conference: Cardiovascular Development and Regeneration, Taos, NM.
January 24, 2012
25. Invited speaker, "Role of Notch Signaling in Aortic Disease"
Cardiovascular Developmental Biology Center Symposium, Charleston, SC.
March 15, 2012
26. Invited Moderator, "Cardiac Disease and the Premature Infant"
Pediatric Academic Societies Annual Meeting, Boston, MA
April 28, 2012
27. Invited speaker, "Role of Notch1 Signaling in Aortic Disease"
Weis Center for Research, Geisinger Clinic, Danville, PA.
May 17, 2012
28. Invited speaker, "Building Translational Research Teams"
Weis Center for Research, Geisinger Clinic, Danville, PA.
May 17, 2012
29. Invited speaker, "Role of Notch1 Signaling in Aortic Disease"
Cleveland Clinic Lerner Research Institute, Cleveland, OH.
May 23, 2012
30. Invited Moderator, "Mechanisms of Fetal and Neonatal Cardiac Growth"
Pediatric Academic Societies Annual Meeting, Washington DC
May 4, 2013

31. Invited speaker, “Insights into the etiology of cardiac malformations: From human genetics to mouse models”
Cardiovascular Seminar Series, Albany Medical College, Albany, NY
March 14, 2014
32. Invited speaker, “Insights into the etiology of cardiac malformations: From human genetics to mouse models”
Frontiers in Cardiovascular Science Seminar, University of Michigan Ann Arbor, MI
May 19, 2014
33. Invited speaker, “Insights into the etiology of cardiac malformations: From human genetics to mouse models”
Department of Pediatrics Seminar, Weill-Cornell Medical College, New York, NY
August 19, 2014
34. Invited moderator, “Cardiovascular Genetics Session”
Weinstein Cardiovascular Development Conference, Boston, MA
May 2, 2015
35. Invited speaker, “Role of Notch1 in Bicuspid Aortic Valve and Ascending Aortopathy”
Midwest in the Southeast Valve Meeting, Charleston, SC
September 17, 2015
36. Invited Poster Professor, Abstract Session “Cardiac Development”
American Heart Association Scientific Sessions, Orlando, FL
November 9, 2015 (scheduled)

REGIONAL AND INSTITUTIONAL

1. Invited speaker, “UFD1, A Candidate Gene for the CATCH-22 Syndrome”
Vascular Biology Club, UT Southwestern Medical Center, Dallas, TX.
October 19, 1998
2. Invited speaker, “22q11 Deletion Syndrome”
Cardiology Research Conference, Children’s Medical Center, Dallas, TX.
July 12, 2001
3. Invited speaker, “Understanding the Genetics of Congenital Heart Disease”
McDermott Center for Human Growth and Development Lecture Series. UT
Southwestern Medical Center, Dallas, TX.
April 14, 2003
4. Invited speaker, “Uncovering Genetic Origins of Congenital Heart Disease”
Pediatric Grand Rounds, Children’s Medical Center, Dallas, TX.
March 24, 2004

5. Invited speaker, “Genetic Aspects of Congenital Heart Disease”
Haltalin Seminar - Pediatrics for the Practitioner. Dallas, TX.
April 22, 2005.
6. Invited speaker, “Presentations from 2005 SPR Meeting”
Pediatric Grand Rounds, Children’s Medical Center, Dallas, TX.
July 20, 2005
7. Invited speaker, “Genetic Aspects of Congenital Heart Disease”
Cardiology Grand Rounds, Dept of Internal Medicine, UT Southwestern Medical Center,
Dallas, TX.
November 3, 2005
8. Invited speaker, “Genetics of Non-syndromic Congenital Heart Disease”
Neonatology Research Conference. UT Southwestern Medical Center. Dallas, TX.
February 3, 2006
9. Invited speaker, “Notch signaling and cardiovascular disease”
Department of Molecular Biology Retreat, UT Southwestern Medical Center. Lake
Texoma, TX.
May 20, 2006
10. Invited speaker, “Genetics of Congenital Heart Disease”
MSTP Works-in-Progress, UT Southwestern Medical Center, Dallas, TX.
October 3, 2006
11. Invited speaker, “Pathogenesis of Congenital Heart Disease”
Pediatric Cardiology Fellows Conference. UT Southwestern Medical Center Dallas, TX.
February 9, 2007
12. Invited speaker, “Genetic Studies of Congenital Heart Disease”
Cardiology Research Conference, Department of Internal Medicine, UT Southwestern
Medical Center, Dallas, TX
February 20, 2007
13. Invited speaker, “New Approaches for Gene Discovery in Pediatric Disease”
Neonatology Research Conference. UT Southwestern Medical Center. Dallas, TX.
May 5, 2008
14. Invited speaker, “Investigations into the genetic basis of congenital heart disease”
Heart Center Faculty Retreat, Fawcett Center, The Ohio State University, Columbus, OH
September 11, 2009
15. Invited speaker, “NOTCH Signaling and Aortic Disease”
Seminar Series, Davis Heart Lung Research Institute, Columbus, OH

October 29, 2009

16. Invited speaker, “Genetics of Congenital Heart Defects:” Current Knowledge & Future Developments”
Pediatric Grand Rounds, Nationwide Children’s Hospital, Columbus, OH
April 22, 2010
17. Invited speaker, “Uncovering Genetic Contributors for Congenital Heart Disease”
Department of Molecular Genetics Seminar Series, The Ohio State University,
Columbus, OH
December 12, 2010
18. Invited speaker, “Congenital Heart Disease: Successes, new challenges & unanswered questions”
Heart Center Clinical and Translational Seminar Series, Columbus, OH
September 9, 2011
19. Invited speaker, “Becoming a scientist in academia: what I have learned along the way”
Trainee Seminar, Research Institute at Nationwide Children’s Hospital, Columbus, OH
October 21, 2011
20. Invited speaker, “Bicuspid aortic valve and its associated diseases: Common disease mechanisms?”
BOSS Seminar, Nationwide Children’s Hospital, Columbus, OH
July 3, 2012
21. Invited speaker, “Role of Notch1 Signaling in Aortic Disease”
Heart Center Clinical and Translational Seminar Series, Columbus, OH
February 22, 2012
22. Invited speaker, “Congenital Heart Disease”
Young Scientist Education Series, Research Institute at Nationwide Children’s Hospital,
Columbus, OH
August 2, 2012
23. Invited speaker, “22Q Fast Facts and Update: Cardiology”
A Healthy You and 22q Conference, Nationwide Children’s Hospital, Columbus, OH
September 22, 2012
24. Invited speaker, “22q: Molecular Genetics Update”
A Healthy You and 22q Conference, Nationwide Children’s Hospital, Columbus, OH
September 21, 2013

DIRECT SUPERVISION

POST-DOCTORAL FELLOWS (PhD)

- 2006-2009 Asha Acharya, PhD
Department of Pediatrics, University of Texas Southwestern
Dallas, Texas
Supported by AHA postdoctoral fellowship (2007-2009)
- 2006-2009 Meenakshi Maitra, PhD
Department of Pediatrics, University of Texas Southwestern
Dallas, Texas
- 2006-2008 Caryn Rothrock, PhD
Department of Pediatrics, University of Texas Southwestern
Dallas, Texas
Supported by UTSW T32 training grant (2006-2007)
- 2007-2009 Nita Sachan, PhD
Department of Pediatrics, University of Texas Southwestern
Dallas, Texas
- 2009-2012 Chaitali Misra, PhD
Research Institute at Nationwide Children's Hospital
- 2009-2012 Chetan Hans, PhD
Research Institute at Nationwide Children's Hospital
Supported by AHA Beginning Grant-in-Aid/Scientist Development Grant
- 2010-2014 Kevin Bosse, PhD
Research Institute at Nationwide Children's Hospital
Supported by NCH/OSU T32 training (2011-2013)
- 2013-present Madhumita Basu, PhD
Research Institute at Nationwide Children's Hospital
Partial support by NCH Postdoctoral Idea Award (2014)
AHA Postdoctoral Fellow Award (2015-2017)
- 2015 present Uddalak Majumdar, PhD
Research Institute at Nationwide Children's Hospital

CLINICAL FELLOWS (MD)

- 2006-2007 Ivory Crittenden, MD
Pediatric Resident
Department of Pediatrics, University of Texas Southwestern
Dallas, Texas

2007-2009 Ashleigh Richards, MD
Fellow, Division of Pediatric Cardiology
Department of Pediatrics, University of Texas Southwestern
Dallas, Texas

2011-2013 Elizabeth Bonachea, MD
Fellow, Division of Neonatology
Department of Pediatrics, Ohio State University
Nationwide Children's Hospital

GRADUATE STUDENTS

2010-2014 Sheng-Wei Cheng
Molecular, Cellular and Developmental Biology Graduate Program
PhD
Ohio State University

2012-present Stephanie LaHaye
Molecular Genetics Graduate Program
PhD (candidate)
Ohio State University

2013-present Sara Koenig
Biomedical Sciences Graduate Program
PhD (candidate)
Ohio State University
Supported by Ohio State CCTS TL1 fellowship award (2014-2016)

ROTATION GRADUATE STUDENTS

2006 Annette Sinetko
Integrative Biology Graduate Program (PhD)
University of Texas Southwestern

2006 Joannie Neumann
Integrative Biology Graduate Program (PhD)
University of Texas Southwestern

2010 Sable Janney
Biomedical Sciences Graduate Program (PhD)
Ohio State University

2015 Adrianna P. Matos
Molecular, Cellular and Developmental Biology Graduate Program (PhD)
PhD
Ohio State University

SUMMER STUDENTS

Medical Students

- 2008 David Sutcliffe
 University of Texas Southwestern Medical
- 2010 Mona Mislanker
 University of Cincinnati School of Medicine
 Supported by APS/SPR medical student research program
- 2010 Parveen Memarzadeh
 Ohio State University School of Medicine
 Supported by Roessler Medical Student Research Scholarship, Ohio State
 University

College Students

- 2007 Jeremy Velasquez
 Macalester College, MN
 Supported by UTSW Summer Undergraduate Research Fellowship (SURF)
 University of Texas Southwestern
- 2008 Lasun Oladeji
 Duke University, NC
 Supported by UTSW Summer Undergraduate Research Fellowship (SURF)
 University of Texas Southwestern
- 2008 Jordan Achtman
 University of Pennsylvania
 Supported by UTSW Summer Undergraduate Research Fellowship (SURF)
 University of Texas Southwestern
- 2010 Wajid Riyaz
 Ohio State University
- 2012 Patrick Rowland
 Ohio State University
 Supported by AHA Summer Undergraduate Research Fellowship
- 2012-2013 Courtney Vaughn
 Ohio State University
- 2014 Charles Kronk

University of Pittsburgh

2015 Olivia Beeson
Vanderbilt University
Supported by AHA Summer Undergraduate Research Fellowship

High School Students

2006 Flor Rojas
Roosevelt High School, Dallas Texas
STARS Program (Science Teacher Access to Resources at Southwestern)
University of Texas Southwestern Medical Center

2008 Candace Turner
Seagoville High School, Seagoville Texas
STARS Program (Science Teacher Access to Resources at Southwestern)
University of Texas Southwestern Medical Center

2010 Victoria Auten
Metro High School, Columbus, Ohio
CCTS Summer Research Experience Program
Ohio State University

2011 Karina Rambeau
Greenhill School, Dallas, Texas

2014 Elliot Fite
Wellington School, Columbus, Ohio

OTHER LAB PERSONNEL

2002-2004 Marie K. Schluterman, B.S. (research technician)

2005-2006 Amanda E. Krysiak, B.S. (research technician)

2006-2009 Haley Nichols, B.S. (research technician)

2007-2009 Hubert Pan, B.S. (clinical research assistant)

2009-2013 Sara Koenig, B.A. (research technician)

2012 Jeeyun Cheng, B.S. (research technician)

2010-2014 Nianyuan Huang, B.S. (research technician)

2015-present Darian Bauer, B.S. (research technician)

ADVISORY COMMITTEES

Graduate Student Committees

- 2006 Member, Qualifying Exam Committee
Jessica Ables, Integrative Biology Graduate Program (PhD)
University of Texas Southwestern
- 2007 Chair, Qualifying Exam Committee
Dung Mac, Integrative Biology Graduate Program (PhD)
University of Texas Southwestern
- 2008 Member, Qualifying Exam Committee
Meredith L. Akins, Integrative Biology Graduate Program (PhD)
University of Texas Southwestern
- 2007-2009 Member, Thesis Committee (PhD)
Christopher Smith, MSTP Graduate Program
University of Texas Southwestern
- 2010-2014 Member, Qualifying Exam and Thesis Committee (PhD)
Sheng-Wei Chang, Molecular, Cellular and Developmental Biology Graduate
Program
Ohio State University
- 2011-2014 Member, Qualifying Exam and Thesis Committee (PhD)
Ning Zhao, Molecular Cellular Developmental Biology Graduate Program
Ohio State University
- 2011-2015 Member, Qualifying Exam and Thesis Committee (PhD)
Cho-Hao Lin, Molecular Cellular Developmental Biology Graduate Program
Ohio State University
- 2012-present Member, Qualifying Exam and Thesis committee (PhD)
Stephanie LaHaye, Department of Molecular Genetics
Ohio State University
- 2012-2015 Member, Qualifying Exam and Thesis committee (PhD)
Matthew Gorr, Biomedical Sciences Graduate Program
Ohio State University
- 2012-present Member, Qualifying Exam and Thesis committee (PhD)
Lindsey Miller, Molecular Cellular Developmental Biology Graduate Program
Ohio State University

- 2013-present Member, Qualifying Exam and Thesis committee (PhD)
Sara Koenig, Biomedical Sciences Graduate Program
Ohio State University
- 2013-present Member, Qualifying Exam and Thesis committee (PhD)
Karley Mahalak, Molecular Cellular Developmental Biology Graduate Program
Ohio State University
- 2013-2015 Member, Qualifying Exam and Thesis committee (PhD)
Jaideep Banerjee, Molecular Cellular Developmental Biology Graduate Program
Ohio State University

Clinical Fellow Committees

- 2005-2007 Member, Fellowship Oversight Committee
Cem Nasohoglu, Cardiology fellow
Department of Pediatrics, University of Texas Southwestern
- 2006-2008 Member, Fellowship Oversight Committee
Laura Murphy, Pediatric ICU fellow
Department of Pediatrics, University of Texas Southwestern
- 2006-2008 Member, Fellowship Oversight Committee
Jason Litten, Hematology & Oncology fellow
Department of Pediatrics, University of Texas Southwestern
- 2009-2012 Member, Scholarship Oversight Committee
Nazire Ozcelik, Cardiology fellow
Nationwide Children's Hospital
- 2009-2013 Member, Scholarship Oversight Committee
William Kay, Cardiology fellow
Nationwide Children's Hospital
- 2010-2013 Chair, Scholarship Oversight Committee
Nazia Husain, Cardiology fellow
Nationwide Children's Hospital
- 2010-2013 Chair, Scholarship Oversight Committee
Janaki Gokhale, Cardiology fellow
Nationwide Children's Hospital
- 2011- 2013 Member, Scholarship Oversight Committee
Elizabeth Bonachea, Neonatology fellow
Nationwide Children's Hospital

- 2013-present Member, Scholarship Oversight Committee
Jeffrey Moore, Cardiology fellow
Nationwide Children's Hospital
- 2013-present Member, Scholarship Oversight Committee
Ryan Roberts, Hematology & Oncology fellow
Nationwide Children's Hospital
- 2014-present Chair
Scholarship Oversight Committees
Pediatric Cardiology Fellows (Carolyn Wilhelm, Jeffrey Moore, Christopher Bugnitz, Joshua Thomas, Elizabeth Mitchell, Kaitlin L'Italien)

LOCAL/REGIONAL DISTINGUISHED ACTIVITIES

1. Selected Co-Chair, Grant Review Committee, American Heart Association Western States Affiliate in 2008 and 2009
2. Selected Chair, Grant Review Committee (Cardiac Biology-Basic and Clinical Translational (BCT5), American Heart Association in 2010
3. Appointed Member, IACUC at Research Institute at Nationwide Children's Hospital from 2010 to 2013
4. Invited Speaker, Cardiovascular Developmental Biology Center Symposium, Charleston, SC in 2012
5. Co-organizer, 2nd and 3rd Annual Midwest Valve Day at Nationwide Children's Hospital in 2013 and 2014

NATIONAL/INTERNATIONAL DISTINGUISHED ACTIVITIES

1. Selected as Member, Observational Safety Monitoring Board for NHLBI Pediatric Cardiac Genomics Consortium, National Institutes of Health from 2011 to 9/2014. **Resigned position to submit NIH application for Consortium membership and avoid conflict of interest.
2. Selected as Member (standing) NIH – Cardiovascular Differentiation and Development Study Section from 2012 to 2018
3. Selected as Member, Medical Advisory Board, Saving tiny Hearts Society, Chicago, Illinois from 2011 to 2013

4. Invited Speaker for 7th TAKAO International Symposium on Etiology and Morphogenesis of Congenital Heart Disease, Tokyo, Japan in July, 2013
5. Selected as Scientist Reviewer, Peer Reviewed Medical Research Program, Department of Defense in 2014
6. Elected as Council Member for Society of Pediatric Research in 2015

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

1994 - present	American Academy of Pediatrics, Fellow
1998 - 2003	American College of Cardiology
1998 - present	American Heart Association, Fellow Councils: Basic Cardiovascular Sciences & Cardiovascular Disease in the Young
2005 - present	Society of Pediatric Research (selected)
2008 - present	American Society of Human Genetics
2015 – present	American Association for Advancement of Science

I have reviewed the curriculum vitae for completeness and accuracy and agree with its content.

Signature _____

Date_____