

## CURRICULUM VITAE

### **Part I: General Information**

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Place of Birth: Concord, MA

#### Education

9/1990-6/1994 B.A. Swarthmore College, Swarthmore, PA  
9/1994-6/1998 M.D. Dartmouth Medical School, Hanover, NH

#### Postdoctoral Training

7/1998-6/1999 Internship in Pediatrics, University of MA Medical Center, Worcester, MA  
7/1999-6/2001 Residency in Pediatrics, University of MA Medical Center, Worcester, MA  
7/2001-6/2004 Residency In Clinical Genetics, Harvard Medical School, Boston, MA

#### Licensure and Certification

1999 National Board of Medical Examiners  
2001 Massachusetts State Medical License  
2002 American Board of Pediatrics  
2005 American Board of Medical Genetics

#### Academic Appointments

7/1998-6/2001 Resident in Pediatrics, University of Massachusetts Medical School, Worcester, MA  
7/2001-6/2004 Clinical Resident in Medicine, Harvard Medical School, Boston, MA  
7/2004-9/2007 Instructor in Pediatrics, Harvard Medical School, Boston, MA  
7/2004-present Clinical Geneticist, Harvard Medical School- Partners HealthCare Center for Genetics and Genomics  
9/2007-present Assistant Professor in Pediatrics, Harvard Medical School, Boston, MA

#### Hospital or Affiliated Institution Appointments

7/2001-6/2004 Clinical Fellow in Medicine, Children's Hospital, Boston, MA  
7/2001-6/2004 Clinical Fellow in Medicine, Brigham and Women's Hospital, Boston, MA  
7/2001-6/2004 Clinical Fellow in Medicine, Massachusetts General Hospital, Boston, MA  
7/2004-present Instructor in Medicine, Children's Hospital Boston, Boston, MA  
7/2004-present Clinical Associate in Pediatrics, Massachusetts General Hospital, Boston, MA  
7/2004-present Associate Physician in Medicine, Brigham and Women's Hospital, Boston, MA  
9/2006-present Clinical Associate in Obstetrics and Gynecology, Beth Israel Deaconess Medical Center, Boston, MA

### Major Administrative Responsibilities

- 9/2006-present Co-Director, Boston Combined Pediatrics and Clinical Genetics Residency Program, Children's Hospital, Boston.
- 9/2007-present Director, Cardiovascular Genetic Research, Department of Cardiology, Children's Hospital, Boston

### Major Committee Assignments

#### Hospital, Medical School, or University

- 9/1996-8/97 Women's Health Vertical Integration Group, Dartmouth Medical School, Student Member. Worked with a committee of faculty members to develop a four year longitudinal women's health curriculum, to examine the current curriculum for deficiencies in women's health, and to make suggestions to each department in ways to include women's health issues in their medical student curriculum.
- 9/1995-6/1998 Student Government, Dartmouth Medical School, Curriculum Committee. Worked on several committees that developed new third and fourth year medical school curriculums implemented June 1997.
- 2/1999, Intern Selection Committee, Department of Pediatrics, University of  
2/2000 Massachusetts Medical Center. Served on a committee of residents and faculty that reviewed the files of interviewing applicants and created a rank list for the NRMP.
- 8/2003-6/04 Children's Hospital, Boston. Working with fellow residents and faculty to develop evaluation materials that are educationally sound and that fulfill the detailed ACGME competency requirements.
- 9/2007-present Scientific Review Committee (SRC) , Department of Cardiology, Children's Hospital, Boston. Committee Member. The SRC meets weekly to review all research protocols prior to submission to the IRB to assess for the soundness of the scientific content and research design.

#### National:

- 4/2002-4/2004 Residency Review Committee for Medical Genetics, Accreditation Council for Graduate Medical Education, Resident Member. Voting member of board that reviews applications for new or continued accreditation of all clinical genetics fellowship training programs in the United States.

### Professional Societies

- |      |                                      |        |
|------|--------------------------------------|--------|
| 1999 | American Academy of Pediatrics       | Fellow |
| 1999 | Massachusetts Medical Society        | Member |
| 2002 | American College of Medical Genetics | Fellow |
| 2004 | American Society of Human Genetics   | Member |

### Community Service Related to Professional Work

- 2002-Present Clinician, The Noonan Syndrome Support Group Annual Meeting
- 2005-Present Member, Medical Advisory Board, CFC International
- 2005-present Clinician, CFC International Annual Meeting
- July, 2008 Member, National Marfan Foundation 2008 Annual Conference Steering Committee, Boston, MA

### Editorial Boards

- |      |                 |                                      |
|------|-----------------|--------------------------------------|
| 2005 | Ad Hoc Reviewer | American Journal of Medical Genetics |
| 2005 | Ad Hoc Reviewer | Birth Defects Research               |
| 2005 | Ad Hoc Reviewer | New England Journal of Medicine      |
| 2006 | Ad Hoc Reviewer | Gene Reviews                         |
| 2006 | Ad Hoc Reviewer | Human Mutation                       |

2007	Ad Hoc Reviewer	Journal of Developmental and Behavioral Pediatrics
2007	Ad Hoc Reviewer	Journal of Medical Genetics
2007	Ad Hoc Reviewer	Pediatric Research

#### Awards and Honors

1992, 1993, & 1994	Dean Grant For Social Science Research, awarded to an undergraduate to work in conjunction with a professor doing social science research. Graduation With Distinction in the discipline of Biology, Swarthmore College, Swarthmore, Pennsylvania.
1993- 1998	Hunter Grubb Foundation Scholarship, awarded annually to students who wish to pursue careers that will “alleviate human suffering.”
1998	The Merck Manual Award, awarded to outstanding students in medical studies for their contribution to the Dartmouth Medical School community.
2001	Resident Teaching Award, awarded by the University of Massachusetts Medical School Class of 2002 for hard work, dedication, and excellence in teaching.
2003-2004	Pediatrician-Scientist Training Scholar, Department of Medicine, Children’s Hospital, Boston. Clinical research stipend from the NIH Pediatrician-Scientist Training Grant.
2006	John M. Opitz Young Investigator Award
2007	Idiopathic and Primary Cardiomyopathy In Children Conference, Bethesda, MD, January 25-26, 2007, Young Investigator Award and invitation to present abstract
2007	William K. Bowes, Jr. Award in Medical Genetics. This is a national award to honor annually an outstanding emerging medical geneticist.

### **Part III: Bibliography**

#### Original Articles

1. Atkins KM, Roberts AE, Cochran N. How Medical Students Can Bring About Curricular Change. *Academic Medicine* 1998;73(11):1173-6.
2. Demmer LA, O’Neill MJ, Roberts AE, and Clay MC. Knowledge of Ethical Standards in Genetic Testing Among Medical Students, Residents, and Practicing Physicians. *JAMA* 2000;284(20):2595-6.
3. Roberts AE, Cox GF, Kimonis VE, Lamb A, Irons MB. Clinical presentation of 13 patients with subtelomeric rearrangements and a review of the literature. *Am J Med Genet.* 2004;128A:352-363.
4. Roberts AE, Listewnik M, Irons MB, Mulliken JB, Morton CC, Kimonis VE, Lee C. Description of a case of distal 2p trisomy by array-based comparative genomic hybridization: a high resolution genome-wide investigation for chromosomal aneuploidy in a single assay. *Am J Med Genet.* 2004; 130A:204-207.
5. Roberts AE, Rehm HL, McDonough B, Barr S, Seidman CE, Seidman JG, Kucherlapati, R. The *PTPN11* gene is not implicated in nonsyndromic hypertrophic cardiomyopathy. *Am J Med Genet.* 2004; 132A:333-334. e-published ahead of print.
6. Loeys BL, Schwarze Ulrike, Holm T, Callewaert BL, Thomas GH, Pannu H, De Backer JF, Oswald GL, Symoens S, Manouvriere S, Roberts A, Faravelli F, Greco MA, Pyeritz R, Milewicz DM, Coucke PJ, Braverman AC, Byers PH, De Paepe AM, Dietz HC. Aneurysm Syndromes Associated Presentation, natural history and management in TGFBR1 or TGFBR2 encoding transforming growth factor-beta receptors. *N Engl J Med.* 2006 Aug 24;355(8):788-98.
7. Patel AM, Kim JB, Roberts AE, Aragam J. Double-Chambered Right Ventricle in an Adult with Noonan syndrome. *Cardiology in Review* 2006, 14(5):16-20.
8. Roberts AE, Allanson J, Jadico SK, Kavamura MI, Noonan J, Opitz JM, Young T, Neri G. The Cardiofaciocutaneous syndrome: A Review. *J Med Genet.* 2006 Nov;43(11):833-42.
9. Roberts AE, Araki T, Swanson KD, Montgomery KT, Schiripo TA, Joshi VA, Li L, Yassin Y, Tamburino AM, Neel BG, Kucherlapati RS. Germline gain-of-function mutations in *SOS1* cause Noonan syndrome. *Nat Genet* 2007, 39(1):70-74.
10. Kratz CP, Niemeyer CM, Thomas C, Bauhuber S, Matejas V, Bergstrasser E, Flotho C, Flores NJ, Haas O, Hasle H, van den Heuvel-Eibrink MM, Kucherlapati RK, Lang P, Roberts AE, Stary J, Strahm B, Swanson KD, Trebo M, Zecca M, Neel B, Locatelli F, Loh ML, Zenker M.

- Mutation Analysis of Son of Sevenless in Juvenile Myelomonocytic Leukemia. *Leukemia*. 2007 May;21(5):1108-9.
11. Roberts, AE, Dahlgren J, Noonan JA. Noonan syndrome: What physician's need to know. *Medscape*, published on line September 2007.
  12. Joshi VA, Roberts AE. Noonan syndrome associated congenital hypertrophic cardiomyopathy and the role of sarcomere gene mutations. *Progress In Pediatric Cardiology*. 2007, 24:75-76.
  13. Morita H, Rehm HL, Menesses AD, McDonough B, Bowles NE, Roberts AE, Kucherlapati R, Towbin JA, Seidman CE, Seidman JG. Gene mutations in childhood-onset cardiac hypertrophy. *NEJM*. 2008 358(18):1899-908.
  14. Milunsky JM, Maher TA, Zhao G, Roberts AE, Stalker HJ, Zori RT, Burch MN, Clemens M, Mulliken JB, Smith R, Lin AE. TFAP2A mutations result in branchio-oculo-facial syndrome. *Am J Hum Genet*. 2008, In Press.
  15. Joshi VA, Roberts AE, Kucherlapati R. Towards A Treatment For RAS-MAPK Pathway Disorders. *Monographs In Human Genetics: In Press*.
  16. Roberts AE. The Clinical Phenotype of Cardiofaciocutaneous Syndrome. *Monographs In Human Genetics: In Press*.

#### Abstracts

- Dec. 2001 Roberts AE, Korf BR. Chromosome 21 and Myeloproliferation. New England Regional Genetics Group, Durham NH annual meeting, Power Point Presentation.
- Dec. 2002 Roberts AE, Kucherlapati R. *PTPN11*: Genotype Phenotype Correlations in Noonan Syndrome. New England Regional Genetics Group Annual Meeting, Durham NH, Power Point Presentation.
- Mar. 2003 Roberts AE, Cox GF, Kimonis V, Lamb A, Irons M. Subtelomeric FISH Testing: Are We Casting a Wide Enough Net? Thirteen Cases and a Review of The Literature. American College of Medical Genetics Annual Meeting, San Diego CA, Poster Presentation.
- Aug. 2003 Roberts AE, Lacro RV, Irons MB, Kucherlapati R. Genotype Phenotype Correlations in Noonan Syndrome: *PTPN11* and beyond. 2003 David W. Smith Meeting, Vancouver, British Columbia, Poster Presentation.
- Mar. 2004 Roberts AE, Rehm H, McDonough B, Barr S, Seidman C, Seidman J, Kucherlapati R. The *PTPN11* Gene and Nonsyndromic Isolated Hypertrophic Cardiomyopathy: No Evidence of a Causal Link. American College of Medical Genetics Annual Meeting, Orlando, FL, Poster Presentation.
- Mar. 2005 Roberts AE, Finn CT, Schiripo TA, Kucherlapati RK, Deutsch CK. 3D photogrammetry facial evaluations in Noonan syndrome and Velocardiofacial syndrome. American College of Medical Genetics Annual Meeting, Dallas, TX, Poster Presentation.
- March 2007 Joshi VA, Roberts AE, Kucherlapati RS. A child with congenital hypertrophic cardiomyopathy, a *PTPN11* mutation, and a *MYBPC3* mutation. American College of Medical Genetics Annual Meeting, Nashville TN, Poster Presentation.