

Leslie B. Smoot

University of Wisconsin, Madison, WI	BS	1979	Allied Health
University of Minnesota School of Medicine, Minneapolis, MN	MD	1986	Medicine

Positions and Employment

- 1984,1986 Student Scientist Award, Minnesota Medical Foundation
1986-87 Intern in Pediatrics, Children's Memorial Hospital, Northwestern Univ., Chicago IL
1987-89 Resident in Pediatrics, Harbor-UCLA Medical Center, Torrance, CA
1990 Visiting Fellow in Pediatric Cardiology, Royal Children's Hospital, Melbourne, Australia
1990-94 Fellow in Pediatric Cardiology, Children's Hospital, Harvard Medical School, Boston, MA
1991-94 Pediatric Scientist Development Award, American Society of Pediatric Department Chairmen
1994- Instructor, Harvard Medical School
1994- Assistant in Cardiology, Children's Hospital, Boston, MA
Attending Physician, Pediatric Cardiac Transplantation Service
Assistant Director, Williams Syndrome Program
Attending Physician, Cardiovascular Genetics Clinic
1999- Director, Cardiovascular Genetics Registry
Director, Williams Syndrome Program
2000- Asst. Director Heart Failure/Cardiac Transplant Program, Childrens Hospital

Other Experience and Professional Memberships

- 1994- Williams Syndrome Association National Advisory Board
1995- New England Consortium for Heart Transplantation
1999- Nutrition Advisory Committee Childrens Hospital
1999- New England VCFS Advisory Panel
2002- Cardiac Bereavement Council, Childrens Hospital
2003- Advisory Panel, Hutchinson-Gilford Progeria Foundation
2004- Member, Lysosomal Storage Disease Treatment Group

Original publications:

1. Yu YT, Breitbart RE, **Smoot LB**, Lee Y, Mahdavi V, Nadal-Ginard B. Human myocyte-specific enhancer factor 2 (mef2) comprises a group of tissue restricted MADS box transcription factors. *Genes and Development* 1992;6:1783-1798
2. Breitbart RE, Chang-seng Liang, **Smoot LB**, Laheru DA, Mahdavi V, Nadal-Ginard B. A fourth human MEF2 transcription factor, hMEF2D, is an early marker of the myogenic lineage. *Development* 1993;118(4):1095-106
3. Kamisago M, Sharma SD, DePalma SR, Solomon S, Sharma P, McDonough B, **Smoot L**, Mullen MP, Woolf PK, Wigle ED, Seidman JG, Seidman CE. Mutations in sarcomere protein genes as a cause of dilated cardiomyopathy. *N Engl J Med.* 2000 Dec 7;343(23):1688-96.
4. Metcalfe K, Rucka AK, **Smoot L**, Hofstadler G, Tuzler G, McKeown P, Siu V, Rauch A, Dean J, Dennis N, Ellis I, Reardon W, Cytrynbaum C, Osborne L, Yates JR, Read AP, Donnai D, Tassabehji M. Elastin: mutational spectrum in supra-avalvular aortic stenosis. *Eur J Hum Genet.* 2000 Dec;8(12):955-63.
5. Kamisago M, Sharma SD, DePalma SR, Solomon S, Sharma P, McDonough B, **SmootL**, Mullen MP, Woolf PK, Wigle ED, Seidman JG, Seidman CE. Mutations in sarcomere protein genes as a cause of dilated cardiomyopathy. *N Engl J Med.* 2000 Dec 7;343(23):1688-96.
6. Urban Z, Riazi S, Seidl TL, Katahira J, **Smoot LB**, Chitayat D, Boyd CD, Hinek A. Connection between elastin haploinsufficiency and increased cell proliferation in patients with supra-avalvular aortic stenosis and Williams-Beuren syndrome. *Am J Hum Genet.* 2002 Jul;71(1):30-44.

7. Lin AE, Grossfeld PD, Hamilton RM, **Smoot L**, Gripp KW, Proud V, Weksberg R, Wheeler P, Picker J, Irons M, Zackai E, Marino B, Scott CI Jr, Nicholson L. Further delineation of cardiac abnormalities in Costello syndrome. *Am J Med Genet.* 2002 Aug 1;111(2):115-29.
8. Lin AE, Salbert BA, Belmont J, **Smoot L**. Total is more than the sum of the parts: phenotyping the heart in cardiovascular genetics clinics. *Am J Med Genet A.* 2004 Dec 1;131A(2):111-114.

Invited articles/reviews/chapters

1. **Smoot LB**. Elastin deletions in Williams Syndrome. *Current Opinion in Pediatrics*, 1995, 7:698-701.
2. **Smoot LB**. Pediatric Cardiac Transplantation in American College of Cardiology Self-Assessment Program, 1997.
3. Bacha EB, O'Brien P, **Smoot L**, DelNido PJ. The Use of Mechanical Support in the Pediatric Cardiac Transplantation. In: *Mechanical Support for Cardiac and Respiratory Failure in Pediatric Patients*. Ed. Duncan, B. Marcel Dekker, 2001, pp 221-232.
4. **Smoot LB**, Cox GC. Genetics of Duchenne and Becker Muscular Dystrophies: The Dystrophinopathies In: *Molecular Genetics of Cardiac Electrophysiological Diseases*. Eds. Berul CI, Towbin JA. Boston: Kluwer Academic Publishers 2000, pp 251-266.
5. Lacro RV, **Smoot LB**. Cardiovascular Disease in Williams-Beuren Syndrome. In *Williams-Beuren Syndrome*. Ed. Morris C, Johns Hopkins University Press, in press.

Abstracts

1. Smoot LB, Wernovsky G, Hanley FL, Keane JF. Results of balloon angioplasty in patients with right ventricular outflow tract obstruction following the arterial switch operation. *Circulation*, suppl 1992.
2. Smoot LB, Breitbart RB, McDermott JC, Mahdavi V, Nadal-Ginard B. Functional analysis of multiple cloned MEF2 isoforms. Poster presentation at the Keystone Symposia, March, 1993.
3. Smoot LB, Lacro RV, Poher B, Kunkel LM. Molecular genetic analysis of Williams Syndrome. *J Human Genet* suppl, 1994.
4. Metcalfe KA, **Smoot LB**, Dennis NR, Donnai D, Reardon W, Read APR, Tassabehji M., Molecular Pathology of supra-aortic stenosis, *Amer J Hum Genet* 1997; 61:A340
5. Fernandes S, **Smoot LB**. 22q11 deletion in a group of adults with congenital heart disease. Velo-Cardio-Facial Syndrome Educational Foundation- 4th Annual Mtg., June, 1998.
6. **Smoot LB**, O'Brien P, Blume E, Laussen PC, Bastardi H, DelNido P, Moran AM. Peri-operative mechanical support in pediatric heart transplantation. *Circulation*, suppl. 1999
7. Katzman PJ, Cox GC, **Smoot LB**. Cardiac Registry Screening for 22q11.2 Deletion Using Loss of Heterozygosity Analysis. *Proceedings of the Society of Pediatric Pathology*, 2002. Neustein Award.

C. Research Support.

1984, 1986 Student Scientist Grant, Minnesota Medical Foundation
 Division of Endocrinology, University of Minnesota School of Medicine, Minneapolis, MN
 Topic: Intracellular mechanisms of action and regulation of thyroid hormone.
 Role: Principal Investigator

1990-1994 Pediatric Scientist Training Grant, American Society of Pediatric Department Chairmen
 Children's Hospital, Harvard Medical School, Boston, MA.
 Topic: Characterization and functional analysis of a recently cloned family of transcription factors (MEF2) involved in myogenesis.
 Role: Principal Investigator

1994-1999 Clinical Investigator Development Award, National Institutes of Health

Division of Genetics, Children's Hospital, Harvard Medical School, Boston, MA

Topic: Cardiovascular genetics; Molecular genetic analysis of individuals with Williams syndrome and supraaortic stenosis.

Role: Principal Investigator

2000 -2004 RFA 5-U01 HL66582-04

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NIH / NHLBI

Division of Cardiology, Children's Hospital, Harvard Medical School, Boston, MA

Topic: Genomics of Cardiovascular Development, Adaptation, and Remodeling

Role: PI of sub-component, year 4. (Co-investigator 2000-2003)