

CURRICULUM VITAE

PERSONAL:

Name: Sandra A. Harris-Hooker, Ph.D.

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Fairburn, Georgia 30213
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Date of Birth: January 29, 1952

Marital Status: Married, 1 child

EDUCATION:

1978 Ph.D., Atlanta University, Atlanta, GA - Developmental Biology
1976 M.S., Atlanta University, Atlanta, GA - Developmental Biology
1974 B.A., Dillard University, New Orleans, LA - Biology

POSTGRADUATE TRAINING:

1978-1981 Postdoctoral Fellow, Department of Pathology, Cardiovascular Research
Training Program University of Washington School of Medicine, Seattle, WA

PROFESSIONAL/ACADEMIC EXPERIENCE:

1981-1983 Assistant Professor, Department of Pathology, Boston University School of
Medicine, Boston, MA

1983-1986 Faculty Development Program, Morehouse School of Medicine, Atlanta, GA

1986-1987 Assistant Professor in Research, Department of Pathology, Morehouse School of
Medicine, Atlanta, GA

1987-1992 Assistant Professor, Departments of Medicine and Pathology, Morehouse
School of Medicine, Atlanta, GA

1990-1996 Program Coordinator, Minority Biomedical Research Support Program,
Morehouse School of Medicine, Atlanta, GA

1996-Present Program Director, Minority Biomedical Research Support Program, Morehouse
School of Medicine, Atlanta, GA

1987-1998 Chief, Division of Research, Department of Medicine, Morehouse School of
Medicine, Atlanta, GA

- 1992-Present Associate Professor, Department of Medicine (Secondary Appointment), Morehouse School of Medicine, Atlanta, GA
- 1992-2005 Associate Professor, Department of Pathology, Morehouse School of Medicine, Atlanta, GA
- 1998-1999 Director, Office for Research Development, Morehouse School of Medicine, Atlanta, GA
- 1999-2005 Associate Dean for Research Development, Morehouse School of Medicine, Atlanta, GA
- 2005- Present Professor, Department of Pathology (Primary Appointment) Morehouse School of Medicine, Atlanta, GA
- 2005-2008 Vice President & Associate Dean for Sponsored Research Administration, Morehouse School of Medicine, Atlanta, GA
- 2008 – Present Vice President & Senior Associate Dean for Research Affairs, Morehouse School of Medicine
- 2010- Present Interim Dean for Academic Affairs, Morehouse School of Medicine

PROFESSIONAL SOCIETIES:

- § American Association for the Advancement of Science
- § American Society for Cell Biology
- § Society of Sigma Xi
- § International Society on Hypertension in Blacks
- § New York Academy of Sciences
- § American Heart Association
- § American Society for Gravitational and Space Biology
- § International Society for Gravitational Physiology

HONORS AND APPOINTMENTS:

- § Certificate of Appreciation, The CB²R Junior Faculty Development Program Spelman College, 2006
- § Executive Leadership in Academic Medicine Fellow, 2003-2004
- § Dean's Recognition Award, 2003
- § Alpha Omega Alpha Honor Medical Society, 1995
- § Dean's Faculty Recognition Award, 1992, 1995
- § Outstanding Women of America, 1988
- § Recipient of the Lederle Laboratories Outstanding Student Award for 1977-1978
- § Recipient of a National Fellowship Fund Award 1977-1978
- § Member of Beta Kappa Chi National Honor Society, Alpha Kappa Mu National Honor Society
- § Student Member of the Dillard University Board of Trustees, 1973
- § Who's Who Among Students in American Colleges and Universities, 1973
- § Dean's Award for Institutional Services, 2008
- § Journal of Ethnicity and Disease – Editorial Board, 2001 – Present
- § National Space Biomedical Research Institute (NSBRI) Board of Directors, 2004 – Present
- § International Society of Hypertension in Blacks, Board of Trustee, 2005 – Present
- § Association for the Accreditation of Human Research Protection Programs, Inc., Board of Directors, 2005 – Present
- § The Villages at Carver Family YMCA, Board of Directors, 2009- Present

PROFESSIONAL SERVICE:

Review Panels

- § NIH/NCRR CTSA Review Panel, 2008
- § NIH/NCMHD Research Endowment Review Panel, 2007-present
- § NIH/NIGMS MARC Review Panel, 1998-2000
- § Minority Access to Research Careers (MARC) Review Panel, 1998-2002
- § AHA - Georgia/South Carolina Research Review Panel, 1993-1997
- § NIH/NIGMS Pre-Council New Initiatives Review Panel, 2002 – Present
- § NIH/NCMHD Loan Repayment Review Panel, 2002 – Present

External Committees:

- § Chair of Spelman College Research Infrastructure in Minority Institutions (RIMI) External Advisory Committee 2003-present
- § AAMC-Research Deans Steering Committee, 2000 – 2003
- § International Society on Hypertension in Blacks - Symposium Committee, 1995-96, 2000-03
- § American Heart Association (AHA) - Minority Task Force, 1997- 2000
- § AHA - Georgia Affiliate Research Committee, 1996-1997
- § NIGMS/MORE Programs Advisory Committee, 1995, 2003
- § American Heart Association/Women in Atherosclerosis Steering Committee, 1994-1997
- § NSF- Research in Minority Institutions (RIMI) Committee-Atlanta University Center, 1994
- § Georgia Biomedical Partnership Committee, 2003 – Present

Institutional Standing Committees:

Current

- § Center for Laboratory Animal Care Research Committee
- § Graduate Education in Biomedical Science Council
- § Institutional Facilities Planning Committee
- § Research Development Committee
- § Research Advisory Council
- § Executive Management Team
- § Intellectual Property Committee

Previous

- § Admissions Committee
- § Library Committee
- § Research Development Committee (Chair)
- § Faculty Representative to the Academic Policy Committee

Institutional Ad Hoc Committees:

IRB Self Study (Accreditation) Committee
Center of Excellence in Health Disparities Steering Committee
Student Research Day Planning Committee
Bioinformatics Working Group

FUNDING HISTORY:

I. Current Funding

NIH/NCRR, RCMI Center of Excellence for Clinical & Translational Research (RCTR), Period of Support: 9/2009 to 6/2014. Total Support: \$22,190,961 (Co-Investigator)

NIH/NIGMS, Research Initiative for Scientific Excellence (RISE) Program, Period of Support: 03/200 to 02/2013. Total Support: \$2,682,009 (Principal Investigator)

NIH/NCRR, Atlanta Clinical and Translational Science Institute (ACTSI), Period of Support: 9/2007 to 5/2012. Total Support: \$9,629,459 (Co-Investigator)

NIH/NIGMS SCORE Program at Morehouse School of Medicine, Period of Support: 8/2006 to 7/2010. Total Support: \$4,831,945 (Principal Investigator)

NIH/NCMHD, “Three Dimensional Approach to Eliminating Disparities in Health.” Period of Support: 9/2002 – 9/2010. Total Support: \$7,487,703. (Co-Investigator)

II. Previous Funding

NIH/NCMHD, “Center of Excellence Research Endowment Program”. Period of Support: 2006-2009, Total Support: \$15,000,000 (Co-Investigator).

OMH/NCMHD, “A Regional Coordinating Center to Mobilize NIH-Funded EXPORT Centers of Excellence on Health Disparities to Mitigate the Public Health Emergency Impact of Hurricane Katrina and Other Natural Disasters on High-Disparity Populations” Period of Support: 09/05-10/08, Total Support: \$5,000,000 (Co-Investigator).

NIH/NIGMS Postbaccalaureate Research Program in conjunction with Emory University, Period of Support: 10/02-06/07 (Co-Investigator).

NIH/NIGMS, “RISE Tissue Engineering and Molecular Histology Cores”. Period of Support: 08/03-07/06. Total Support: \$445,965 (Principal Investigator).

NIH/NCMHD, “Center of Excellence Research Endowment Program”. Period of Support: 2003-2006, Total Support: \$15,000,000 (Co-Investigator).

NIH/NCMHD, “Center of Excellence Research Endowment Program”. Period of Support: 2002 Total Support: \$5,000,000 (Co-Investigator).

NIH/NIGMS “Examining Possible Mechanisms of Vascular Remodeling Using In Vitro 3-D Blood Vessel Models,” Period of Support: 8/1998 to 7/2002. Total Support: \$528,642 (Principal Investigator)

16. Bayorh M, Williams E, Thierry-Palmer M, Sanford G, Emmett N, Harris-Hooker S, Socci R and Chu T. Enhanced nitric oxide synthesis reverses salt-induced alterations in blood flow and cGMP levels. *Clin Exper Hyperten* 21:333-352, 1999.
17. Sanford G, Harris-Hooker S, Lui J, Melhado-Gardner C, Pink Y, Wallace T and Bosah F. Influence of changes in gravity on the response of lung and vascular cells to ischemia/reperfusion in vitro. *Journal Gravitational Physiology* 6:P27-28, 1999.
18. Sanford G, Harris-Hooker S, Lui J and Bosah F. Wound healing following injury to vascular smooth muscle cell cultures is modulated by culture under hypergravity. *Journal Gravitational Physiology* 6:P29-30, 1999.
19. Thierry-Palmer M, Carlyle K, Williams M, Caines-McKenzie S, Bayorh M, Tewolde T, Emmett N, Harris-Hooker S, Sanford G and Williams E. Plasma 25-hydroxyvitamin D concentrations are inversely associated with blood pressure of salt-sensitive rats. *J. Steroid Biochem and Molec Biol* 66:255-261, 1998.
20. Bayorh M, Ogbolu E, Williams E, Thierry-Palmer M, Sanford G, Emmett N, Harris-Hooker S, Socci R, Chu T and Chenault V. Possible mechanisms of salt-induced hypertension in Dahl salt-sensitive rats. *Physiol Behavior* 65:563-568, 1998.
21. Sung J, Harris-Hooker S, Alema-Mensah E and Mayberry R. Prevalence of hypertension in a medicaid population. *Ethnicity & Disease* 7:19-26, 1997.
22. McCloud H, Pink Y, Harris-Hooker S, Melhado C and Sanford G. Hypergravity alters the susceptibility of cells to anoxia-reoxygenation injury, In: *NASA University Research Centers: Technical Advances in Education, Aeronautics, Space, Autonomy, Earth and Environment, Vol. 1*, Jamshidi M, et al., eds. pp. 897-901, 1997.
23. Love F, Melhado C, Bosah F, Harris-Hooker S and Sanford G. Calmodulin-dependent protein kinase mediates hypergravity-induced changes in F-actin expression by endothelial cells, In: *NASA University Research Centers: Technical Advances in Education, Aeronautics, Space, Autonomy, Earth and Environment, Vol. 1*, Jamshidi M, et al., eds. pp. 881-884, 1997.
24. Melhado C, Sanford G and Harris-Hooker S. Endothelial cell morphology and migration are altered by changes in gravitational field. In: *NASA University Research Centers: Technical Advances in Education, Aeronautics, Space, Autonomy, Earth and Environment, Vol. 1*, Jamshidi M, et al., eds. pp.513-517, 1997.
25. Love F, Melhado C, Bosah F, Harris-Hooker S and Sanford G. Protein kinases possibly mediate hypergravity-induced changes in F-actin expression by endothelial cells. In: *NASA University Research Centers: Technical Advances in Aeronautics, Space Sciences and Technology, Earth Systems Sciences, Global Hydrology, and Education, Vol. III*, Coleman TL, et al., eds. pp. 480-482, 1998.
26. Melhado C, Sanford G and Harris-Hooker S. Simulated microgravity induced cytoskeleton rearrangement is modulated by protooncogenes. In: *NASA University Research Centers: Technical Advances in Aeronautics, Space Sciences and Technology, Earth Systems Sciences, Global Hydrology, and Education, Vol. III*, Coleman T.L. et al., eds pp. 45-48, 1998.
27. Sung J, Alema-Mensah E, Mayberry R and Harris-Hooker S, I. Prevalence of hypertension in a medicaid population. *Ethnicity & Disease* 7:19-26, 1997.
28. Harris-Hooker S and Sanford G. Lipids, lipoproteins and coronary heart disease in minority populations. *Atherosclerosis* 108 (Suppl.) S83-104, 1994.
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31. Harris-Hooker S, Sanford G., Montgomery V, Rivers R and Emmett N. Influence of low density lipoproteins on vascular smooth muscle cell growth and motility: Modulation by extracellular matrix. *Cell Biology and International Reports* 16(5):433-450, 1992.

32. Sung J, Harris-Hooker S, Schmid G, Ford E, Simmons B, Reed J. Racial differences in mortality from cardiovascular disease in Atlanta, 1979-85. *J. Natl. Med. Assoc* 84(3):259-263, 1992.
33. Dutt K, Scott M, Del Monte M, Brennan M, Harris-Hooker S, Kaplan H, Verly G. Extracellular matrix mediated growth and differentiation in human pigment epithelial cell line 0041. *Current Eye Research* 10:1089-1100, 1991.
34. Sanford G and Harris-Hooker S. Stimulation of vascular cell proliferation by beta-galactoside specific lectin. *FASEB J* 4:2912-2918, 1990.
35. Srivastava R, Harris-Hooker S and Sridaran R. Inhibitory effects of in vivo and in vivo treatment of a LHRH antagonist (NAL-LYS ANTIDE) on progesterone levels during early pregnancy in the rat. In: *Regulation of gene expression in the ovary*. G. Giboni, Ed., Plenum Press, New York, 1990.
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37. Sridaran R, Srivastava R and Harris-Hooker S. Suppression of luteal production of progesterone in vitro by a gonadotropin releasing hormone agonist during pregnancy. In: *Regulation of gene expression in the ovary*. G. Giboni, Ed., Plenum Press, New York, 1991.
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ABSTRACTS

1. Harris-Hooker S., Kumar R., Dutt K. and Sanford G.L. The Expression of Growth Factors and Their Receptors in Retinal and Endothelial Cell Co-Cultured in Bioreactor (10th International RCMI Symposium) 2006
2. Harris-Hooker S., Elimination of Health Disparities (Urban League Annual Meeting) 2006.
3. Harris-Hooker S., After the Storm – The Katrina Project (NAFEO Meeting) 2006.
4. Harris-Hooker, S. Healthy People 2010: The Five year Bench Mark. *Journal of Ethnicity & Disease*. (in preparation)
5. Sanford GL, Sroufe AE, Ellerson D, Hunter M, Bosah F and S. Harris- Hooker. Altered growth and gene expression by endothelial cells cultured in a microgravity-based rotating bioreactor. *FASEB J* 16:A437, 2002.
6. Harris-Hooker S, Rivers R and Sanford GL. Cellular mediators of vascular smooth muscle behavior. *Ethnicity and Disease* 12:11, 2002.
7. Russell LH, Ellerson D, Harris-Hooker S and Sanford GL. Endothelial cell oxidation of LDL is modulated by culture in a microgravity-like environment. *Georgia J. Sci.* 60:51, 2002.

8. Smith D, Reid L, Ellerson D, Harris-Hooker S and Sanford GL. Culture of endothelial cells in the microgravity-based rotating bioreactor results in a reduced angiogenic response. *Georgia J. Sci.* 60:53, 2002.
9. Staples, MJ, Harris-Hooker, S, Sanford, G, Nokkaew, N and Williams M. Upregulation of ICAM-1 Expression by Hypoxia Preconditioning of Endothelial Cells in Vitro. Annual Biomedical Research Conference for Minority Students, New Orleans, LA, November 13-16, 2002.
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11. Reid, L, Ellerson, D, Harris-Hooker, S and Sanford, GL. Possible Regulations of VEGF Receptors Underlying Decreasing Angiogenic Response of Endothelial Cells Cultured in the NASA Rotating Bioreactor. Annual Biomedical Research Conference for Minority Students, New Orleans, LA, November 13-16, 2002.
12. Russell, LH, Ellerson, D, Harris-Hooker, S and Sanford GL. Endothelial cell oxidation of LDL is modulated by culture in a microgravity-like environment. Presented at the Morehouse School of Medicine Fourteenth Annual Curtis L. Parker Student Research Day Symposium, Atlanta, GA. February 22, 2002.
13. Smith, D, Reid L, Ellerson, D, Harris-Hooker, S and Sanford GL. Culture of endothelial cells in the microgravity-based rotating bioreactor results in a reduced angiogenic response. Presented at the Morehouse School of Medicine Fourteenth Annual Curtis L. Parker Student Research Day Symposium, Atlanta, GA, February 22, 2002.
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17. Harris-Hooker S, Sanford G, Bosah F, Williams V, Emmett N, Colden-Stanfield M., Thierry-Palmer M, Bayorh M and Williams E. Vascular cells isolated from Dahl salt sensitive rats: Early signaling pathways mediating growth. *Ethnicity & Disease* 9:309, 1999.
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19. Harris-Hooker S, Sanford G, Bosah F, Rivers R and Hunter M. Altered

23. Harris-Hooker S, Sanford G, Bosah F, Rivers R and Hunter M. Altered vascular smooth muscle cell proliferation and migration by conditioned media from dysfunctional endothelial cells. *The Physiologist* 14(4):249, 1998.
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25. Ellerson D, Sanford G, Harris-Hooker S and Melhado-Gardner C and Bosah F. Three dimensional culture of endothelial cells show increased nitric oxide production. *The Physiologist* 14(4):278, 1998.
26. Ellerson D, Sanford G, Harris-Hooker S and Melhado C. Characterization of 3-dimensional vascular cell co-cultures maintained in the rotating bioreactor. *Gravitational and Space Biology Bulletin* 12(2):40, 1998.
27. Sroufe A, Sanford G, Harris-Hooker S, Ellerson D and Dutt K. Modeling of blood-brain barrier by 3-dimensional co-culture of astrocytes and endothelial cells in the microgravity-based rotating bioreactor. *Gravitational and Space Biology Bulletin* 12(2):40, 1998.
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29. Sanford G, Harris-Hooker S, Melhado-Gardner C, Bosah F and Liu J. Characterization of cytoskeleton alterations in endothelial cells subjected to rotary shear stress. *The Physiologist* 14(4):249, 1998.
30. Harris-Hooker S, Sanford G, Smith M, Caines-McKenzie S, Bayorh M, Colden-Stanfield M, Emmett N, Thierry-Palmer M, and Williams E. Isolation and characterization of vascular endothelial and smooth muscle cells from Dahl hypertensive rats. *Ethnicity and Disease* 7:S38, 1997.
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33. Bosah FN, Sanford GL and Harris-Hooker S. Salt-induced changes in vascular smooth muscle cell growth and migration in hypertensive Dahl rats. *Microcirculation* 4(1):112, 1997.
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47. Harris-Hooker S, Sanford GL, Bettis B and Rivers R. Modulation of the uptake of low-density lipoproteins in vascular smooth muscle cells by high-density lipoproteins and extracellular matrix components. *J. Cell Biol.* 115:2582, 1991.
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51. Harris-Hooker S, Sanford G, Montgomery V and Dukes L. Influence of low-density lipoproteins on vascular smooth muscle cells. *J Cell Biol* 109:1784, 1989.
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53. Tan W, Sanford GL, Odusanya B and Harris-Hooker S. Effect of dexamethasone on the expression of the 14 kD-galactoside specific lectin by rat lung fibroblasts. *J Cell Biol* 115:2626, 1991.
54. Harris-Hooker S, Sanford G, Montgomery V and Dukes L. Influence of low-density lipoproteins on vascular smooth muscle cells. *J Cell Biol* 109:1784, 1989.
55. Cooke D, Emmett N, Harris-Hooker S and Sanford G. Prostate cancer cell growth and motility using video image analysis. *J Cell Biol* 109:1785, 1989.
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