

CURRICULUM VITAE

Biographical**NAME:** Mary Christina Hines**PHONE:** 816-235-5767**ADDRESS:** Univ. Missouri-Kansas City
School of Nursing
2220 Holmes St.
Kansas City, MO 64108**FAX:** 816-235-1701**EMAIL:** hiness@umkc.edu**Education and Training**

<u>Dates</u>	<u>Institution and Location</u>	<u>Degree</u>	<u>Major Subject and Mentor</u>
Undergraduate			
1964-1967	Duke University Durham, NC		French
1967-1968	The George Washington University Washington, DC	B.A. 1968	French
1974-1978	Spalding University Louisville, KY	B.S. 1978	Nursing
Graduate			
1985-1989	University of Louisville Louisville, KY	Ph.D. 1989	Physiology James Porter PhD
Post-Graduate			
1989-1992	University of Chicago Chicago, IL		Obstetrics Marshall Lindheimer MD
1992-1994	University of Texas Health Science Center San Antonio, TX		Neurophysiology Steven Mifflin PhD

Employment History

<u>Years</u>	<u>Institution and Location</u>	<u>Title</u>
Academic 2008- present	University of Missouri-Kansas City School of Nursing Kansas City, MO	Associate Dean for Research
2004-2007	University of Missouri-Kansas City School of Nursing Kansas City, MO	Assistant Dean for Research
2001-present	University of Missouri-Kansas City School of Nursing Kansas City, MO	Thompson Professor of Research
2001-2004	University of Missouri-Kansas City School of Nursing Kansas City, MO	Director of Research
1/2001	University of Pittsburgh School of Nursing Pittsburgh, PA	Associate Professor with tenure
1994-2000	University of Pittsburgh School of Nursing Pittsburgh, PA	Assistant Professor Research Track
1992-1994	University of Texas Health Science Center Department of Pharmacology San Antonio, TX	Research Instructor
1987-1989	University of Louisville, Dept. of Obstetrics Louisville, KY	Clinical Teaching Associate
1987-1988	University of Louisville, Dept. of Physiology Louisville, KY	Teaching Assistant

Non-Academic

1979-1987	University of Louisville, Dept. of Pediatrics Louisville, KY	Staff Nurse
1978-1979	St. Anthony Hospital, Louisville, KY	Staff Nurse

Publications**Refereed Data-Based Articles**

- Bechtold, A.G., Vernon, K., **Hines, T.**, Scheuer, D.A. (2008). Genetic predisposition to hypertension sensitizes borderline hypertensive rats to the hypertensive effects of prenatal glucocorticoid exposure. *J. Physiol* 586: 673-684.
- Hines, T.**, Beauchamp, D., & Rice, C. (2007). Baroreflex control of sympathetic nerve activity in hypertensive pregnant rats with reduced uterine perfusion. *Hypertens Pregnancy* 26(3): 303-314.
- Hines, T.**, Veeh, J., & Grimes, D. (2006). The hypo-osmolality of pregnancy does not alter baroreceptor responses to acute changes in osmolality. *Biol Res Nurs* 7(3): 214-221.
- Hines, T.**, Abhyankar, S. S., & Veeh, J. M. (2005). Right atrial dimension-pressure relation during volume expansion is unaltered by pregnancy in the rat. *Am J Physiol Heart Circ Physiol* 288: H116-H120.
- Hines, T.** (2000). Baroreceptor afferent discharge in the pregnant rat. *Am J Physiol Regul Integr Comp Physiol* 278: R1433-R1440.
- Hines, T.**, & Herzer, W. A. (2000). Effect of cardiac receptor stimulation on renal vascular resistance in the pregnant rat. *Am J Physiol Regul Integr Comp Physiol* 278: R171-R178.
- Hines, T.**, & Hodgson, T. M. (2000). Pregnancy alters cardiac receptor afferent discharge in the rat. *Am J Physiol Regul Integr Comp Physiol* 278: R149-R156.
- Woody, M., Albrecht, S., **Hines, T.**, & Hodgson, T. M. (1999). Directed Case Studies in Baccalaureate Nursing Anatomy and Physiology. *J Nursing Ed* 38: 383-386.
- Hines, T.**, & Mifflin, S. W. (1997). Nitric oxide mediation of cardiac receptor reflex responses in the pregnant rat. *Am J Obstet Gynecol* 177: 1502-1508.
- Hines, T.**, & Mifflin, S. W. (1995). Gestational effects on volume-sensitive cardiopulmonary reflexes in the rat. *Am J Physiol Regul Integr Comp Physiol* 268, R736-R743.
- Hines, T.**, Lindheimer, M.D. & Barron, W. M. (1994). Effect of autonomic blockade on pressor responses to vasopressin in pregnant rats. *Am J Obstet Gynecol* 171: 1296-1302.
- Hines, T.**, Toney, G. M., & Mifflin, S. W. (1994). Responses of neurons in the nucleus tractus solitarius to stimulation of heart and lung receptors in the rat. *Circ Res* 74: 1188-1196.
- Hines, T.**, Lindheimer, M. D., & Barron, W. M. (1993). Total autonomic blockade eliminates the attenuated pressor response to angiotensin II in the pregnant rat. *Am J Physiol Regul Integr Comp Physiol* 265: R1270-R1275.
- Hines, T.**, & Barron, W. M. (1992). Effect of sinoaortic denervation on pressor responses in the pregnant rat. *Am J Physiol Regul Integr Comp Physiol* 262: R1100-R1105.
- Hines, T.**, & Porter, J. P. (1992). The pressor effect of posterior hypothalamic stimulation is enhanced in the pregnant rat. *Am J Physiol Regul Integr Comp Physiol* 262: R604-R609.
- Hines, T.**, & Porter, J. P. (1989). Role of central angiotensin II in control of blood pressure during pregnancy. *Am J Physiol Regul Integr Comp Physiol* 257: R1457-R1461.

Published Abstracts of Conference Presentations

- Hines, T.**, Connell, K., Sims, R., Beauchamp, D., & Rice, C. (2006). Baroreflex regulation and plasma volume in hypertensive rats with reduced uterine perfusion. *Faseb J* 20(4): A774.
- Bechtold, A. G., Vernon, K., **Hines, T.**, and Scheuer, D.A. (2005). Prenatal dexamethasone enhances arterial pressure and glucose responses to stress. http://select.biosis.org/faseb/eb2005_data/FASEB010082.html
- Bechtold, A. G., **Hines, T.**, Veeh, J. M., & Scheuer, D. A. (2004). Prenatal dexamethasone increases arterial pressure in adult borderline hypertensive rats. http://select.biosis.org/faseb/eb2004_data/FASEB003277.html
- Hines, T.**, Abhyankar, S., & Veeh, J. (2004). Volume expansion differentially affects cardiac receptor afferent discharge in volume restricted and normal pregnant rats. http://select.biosis.org/faseb/eb2004_data/FASEB006144.html
- Hines, T.**, Abhyankar, S., & Veeh, J. (2004). Does increased blood volume increase atrial size during pregnancy? *Hypertens Pregnancy* 23:131.
- Hines, T.**, Bechtold, A., Veeh, J., & Scheuer, D. (2004). Prenatal dexamethasone increases arterial pressure in adult

borderline hypertensive rats. *Hypertens Pregnancy* 23:113.

- Hines, T.** (2003). Effects of sustained changes in arterial pressure on baroreceptor discharge in pregnant rats. http://select.biosis.org/faseb/eb2003_data/FASEB006246.html
- Grimes, D.M. & **Hines, T.** (2003). Effect of osmolality on baroreceptor discharge in the pregnant rat. http://select.biosis.org/faseb/eb2003_data/FASEB005998.html
- Hines, T.** (2000). Cardiac receptor afferent discharge in the early-pregnant rat. *Hypertens Pregnancy* 19: 114.
- Hines, T.** (2000). Cardiac receptor afferent discharge in the early-pregnant rat. *Faseb J* 14: A68.
- Hines, T.**, & Hodgson, T. M. (2000). Attenuation of cardiac receptor afferent discharge in the pregnant rat. *Hypertens Pregnancy* 19: 70.
- Hines, T.**, & Kirkland, V. (2000). Baroreflex alterations in the postpartum rat. *Faseb J* 14: A68.
- Hines, T.**, Henker, R., Rogers, S., Gallek, M., & Kelso, L. (2000). Role of hepatic vagal afferents in fever: insights from clinical and animal studies. *Faseb J* 14: A85.
- Hines, T.** (1999). Attenuation of baroreceptor afferent discharge in the pregnant rat. *Faseb J* 13: A1046.
- Hines, T.**, & Hertzner, W. (1996). Effect of cardiac receptor stimulation on renal vascular resistance in the pregnant rat. *Faseb J* 10: A63.
- Hines, T.**, Lindheimer, M. D., & Barron, W. M. (1994). Effect of autonomic blockade on pressor responses to vasopressin in pregnant rats. *Hypertens Pregnancy* 13: 347.
- Hines, T.**, & Mifflin, S. W. (1994). Nitric oxide mediation of central autonomic control in pregnant and virgin rats. *Faseb J* 8: A846.
- Hines, T.**, & Mifflin, S. W. (1994). Effect of acute volume expansion on central and efferent nerve activity in the pregnant rat. *Hypertens Pregnancy* 13: 326.
- Hines, T.**, Toney, G. M., & Mifflin, S. W. (1993). Characterization of neurons in the nucleus of the solitary tract (NST) with cardiopulmonary afferents. *Faseb J* 7: A99.
- Hines, T.**, Lindheimer, M. D., & Barron, W. M. (1993). Total autonomic blockage eliminates the attenuated pressor response to angiotensin II (ANG II) in the pregnant rat. *Hypertens Pregnancy* 12: 210.
- Hines, T.**, & Barron, W. M. (1991). Sinoaortic denervation produces similar effects on pressor responses in virgin and pregnant rats. *Faseb J* 5: A1414.
- Hines, T.**, & Porter, J. P. (1991). The pressor response to posterior hypothalamic stimulation is enhanced in the pregnant rat. *Clin Exp Hypertens* B10: 154.
- Hines, T.**, & Porter, J. P. (1990). Cardiovascular responses to central and peripheral pressor stimuli in the pregnant rat. *Faseb J* 4: A1193.
- Hines, T.**, & Porter, J. P. (1989). The pressor response to intracerebroventricular angiotensin II is not blunted during pregnancy. *Faseb J* 3: A1015.

Books, Chapters, Non-Refereed Articles, and other publications

- Hines, T.**, & Jones, M. B. (1994). Can aspirin prevent and treat pre-eclampsia? *Am J Matern Child Nurs* 19: 258-263. (invited review)
- Hines, T.** (1989). Cardiovascular effects of peripheral and central pressor stimuli in the pregnant rat. *Doctoral Dissertation* University of Louisville, Louisville, KY.

Presentations

International

- Bechtold, A.G., **Hines, T.**, Veeh, J. M., & Scheuer, D.A. (2004). *Prenatal Dexamethasone Increases Arterial Pressure in Adult Borderline Hypertensive Rats*. Paper presented at ISSHP, Vienna, Austria.
- Hines, T.**, Abhyankar S.S., & Veeh, J. M. (2004). *Does Increased Blood Volume Increase Atrial Size During Pregnancy?* Paper presented at ISSHP, Vienna, Austria.
- Hines, T.** (2000). *Cardiac Receptor Afferent Discharge in the Early-Pregnant Rat*. Paper presented at ISSHP, Paris, France.
- Hines, T.** (1998). *Attenuation of Cardiac Receptor*. Paper presented at ISSHP, Kobe, Japan.
- Hines, T.** (1996). *Nitric Oxide Mediation of Cardiac Receptor Reflex Responses in the Pregnant Rat*. Paper presented at ISSHP, Seattle, WA.
- Hines, T.** (1994). *Effect of Autonomic Blockade on Pressor Responses to Vasopressin in Pregnant Rats*. Paper presented at ISSHP, Sydney, Australia.

Hines, T. (1994). *Effect of Acute Volume Expansion on Central and Efferent Nerve Activity in the Pregnant Rat*. Paper presented at ISSHP, Sydney, Australia.

Hines, T. (1992). *Total Autonomic Blockade Eliminates the Attenuated Pressor response to Angiotensin II in the Pregnant Rat*. Paper presented at ISSHP, Buenos Aires, Argentina.

Hines, T. (1990). *The Pressor Response to Posterior Hypothalamic Stimulation is Enhanced in the Pregnant Rat*. Paper presented at ISSHP, Perugia, Italy.

National

Hines, T., Connell, K., Sims, R., Beauchamp, D., & Rice, C. (2006). *Baroreflex Regulation and Plasma Volume in Hypertensive Rats with Reduced Uterine Perfusion*. Paper presented at Experimental Biology 2006, San Francisco, CA.

Bechtold, A.G., Vernon, K, **Hines, T.**, and Scheuer, D.A. (2005). *Prenatal Dexamethasone Enhances Arterial Pressure and Glucose Responses to Stress*. Paper presented at Experimental Biology 2005, San Diego, CA.

Bechtold, A. G., **Hines, T.**, Veeh, J. M., & Scheuer, D. A. (2004). *Prenatal Dexamethasone Increases Arterial Pressure in Adult Borderline Hypertensive Rats*. Paper presented at Experimental Biology, Washington, DC.

Hines, T., Abhyankar, S. S., & Veeh, J. M. (2004). *Volume Expansion Differentially Affects Cardiac Receptor Afferent Discharge in Volume Restricted and Normal Pregnant Rats*. Paper presented at Experimental Biology, Washington, DC.

Hines, T., Abhyankar, S. S., & Veeh, J. M. (2004). *Does Increased Blood Volume Increase Atrial Size During Pregnancy?* Paper presented at Experimental Biology, Washington, DC.

Hines, T. (2003). *Effects of Sustained Changes in Arterial Pressure on Baroreceptor Discharge in Pregnant Rats*. Paper presented at Experimental Biology, San Diego, CA.

Grimes, D., & **Hines, T.** (2003). *Effect of osmolality on Baroreceptor Discharge in the Pregnant Rat*. Paper presented at Experimental Biology, San Diego, CA.

Hines, T., & Stewart, A. M. (2001). *Effect of Nitric Oxide Blockade on Baroreceptor Discharge in the Pregnant Rat*. Paper presented at Experimental Biology, Orlando, FL.

Hines, T. (2000). *Role of Hepatic Vagal Afferents in Fever: Insights from Clinical and Animal Studies*. Paper presented at Experimental Biology, San Diego, CA.

Hines, T. (2000). *Baroreflex Alterations in the Post-Partum Rat*. Paper presented at Experimental Biology, San Diego, CA.

Hines, T. (2000). *Cardiac Receptor Afferent Discharge in the Early-Pregnant Rat*. Paper presented at Experimental Biology, San Diego, CA.

Hines, T. (1999). *Attenuation of Baroreceptor Afferent Discharge in the Pregnant Rat*. Paper presented at Experimental Biology, Washington, DC.

Hines, T. (1998). *Alterations in Autonomic Control of Cardiovascular Function during Pregnancy*. Paper presented at North American Society for the Study of Hypertension in Pregnancy, Winston- Salem, NC.

Hines, T. (1996). *Cardiac Receptor Afferent Discharge in the Pregnant Rat*. Paper presented at Society for Neuroscience, New Orleans, LA.

Hines, T. (1996). *Effect of Cardiac Receptor Stimulation on Renal Vascular Resistance in the Pregnant Rat*. Paper presented at Experimental Biology, Washington, DC.

Hines, T. (1994). *Gestational Effects of Volume-sensitive Cardiopulmonary Receptor Reflexes in the Rat*. Paper presented at North American Society for the Study of Hypertension in Pregnancy, Las Vegas, NV.

Hines, T. (1994). *Nitric Oxide Mediation of Central Autonomic Control in Pregnant and Virgin Rats*. Paper presented at Experimental Biology, Atlanta, GA.

Hines, T. (1993). *Gestational Effects on Central and Efferent Neural Components of Cardiac Receptor Reflexes in the Rat*. Paper presented at Society for Neuroscience, Washington, DC.

Hines, T. (1993). *Characterization of Neurons in the Nucleus of the Solitary Tract (NTS) with Cardiopulmonary Afferents*. Paper presented at Experimental Biology, Anaheim, CA.

Hines, T. (1991). *Effect of Sinoaortic Denervation on Pressor Responses in the Pregnant Rat*. Paper presented at Society for Gynecologic Investigation, San Antonio, TX.

Hines, T. (1991). *Sinoaortic Denervation Produces Similar Effects on Pressor Responses in Virgin and Pregnant Rats*. Paper presented at Experimental Biology, Atlanta, GA.

Hines, T. (1990). *Total Autonomic Blockade Eliminates the Attenuated Pressor Response to Angiotensin II in the Pregnant Rat*. Paper presented at Society for Gynecologic Investigation, San Antonio, TX.

Hines, T. (1990). *Cardiovascular Responses to Central and Peripheral Pressor Stimuli in the Pregnant Rat*. Paper presented at Experimental Biology, Washington, DC.

Hines, T. (1989). *The Pressor Response to Intracerebroventricular Angiotensin II is not Blunted during Pregnancy.* Paper presented at Experimental Biology, New Orleans, LA.

Hines, T. (1988). *Plasma Atrial Natriuretic Peptide and Position during Pregnancy.* Paper presented at Society for Perinatal Obstetricians, New Orleans, LA.

Regional

Hines, T. (2007). *Elevated Blood Pressure and Restricted Growth in Adult Offspring of an Animal Model of Human Preeclampsia.* Paper presented at Midwest Nursing Research Society Annual Research Conference, Omaha, NE.

Hines, T., Sims, R., Beauchamp, D., & Rice, C. (2006). *Effects of Reduced Uterine Perfusion on Sympathetic Nerve Activity during Pregnancy in the Rat.* Paper presented at Kansas City Area Life Sciences Research Day, Kansas City, MO.

Hines, T. (2006). *Hypertension During Pregnancy: Lessons from an Animal Model of Reduced Uterine Perfusion.* Invited speaker, University of Kansas Medical Center, Department of Physiology Seminar Series, Kansas City, KS.

Hines, T. (2006). *High Blood Pressure During Pregnancy: Lessons from an Animal Model.* Invited speaker, Showcase for Women's Health Research, Kansas City, MO.

Hines, T. (2005). *Cardiovascular Function from Pregnancy to Adulthood.* UMKC Innovation Series. Stowers Institute for Biomedical Research, Kansas City, MO.

Hines, T. (2004). *How Does the Brain Control Blood Pressure During Pregnancy?* Invited speaker to Missouri Senators, Life Sciences at the University of Missouri meeting, Jefferson City, MO.

Hines, T., Veeh J. M., & Abhyankar, S. S. (2004). *Does Increased Blood Volume "Stretch" the Heart during Pregnancy?* Paper presented at Midwest Nursing Research Society Annual Research Conference, St. Louis, MO.

Bechtold, A. G., Vernon, K., **Hines, T.,** Veeh, J., & Scheuer, D. A. (2004). *Effect of Prenatal Dexamethasone on Adult Arterial Pressure in the Borderline Hypertensive Rat.* Paper presented at FASEB Summer Research Conference, Snowmass Village, CO.

Bechtold, A. G., Vernon, K., **Hines, T.,** Veeh, J., & Scheuer, D. A. (2004). *Neural Mechanisms in Cardiovascular Regulation.* Paper presented at FASEB Summer Research Conference, Snowmass Village, CO.

Hines, T. (2003). *Mechanisms for Altered Regulation of Blood Volume during Pregnancy.* Paper presented at Bone Biology Seminar Series, University of Missouri Kansas City School of Dentistry, Kansas City, MO.

Hines, T. (2003). *What Does the Brain Know About Blood Pressure During Pregnancy?* Paper presented at Midwest Nursing Research Society Annual Research Conference, Grand Rapids, MI.

Hines, T. (2003). *What Does the Brain Know About Blood Pressure During Pregnancy?* Paper presented at University of Kansas Medical Center, Department of Physiology Seminar Series, Kansas City, KS.

Hines, T. (2002). *Alterations in Autonomic Regulation of Cardiovascular Function During Pregnancy.* Paper presented at Division of Hypertension Seminar Series, University of Texas Southwestern Medical School, Dallas, TX.

Hines, T. (2001). *Alterations in Autonomic Regulation of Cardiovascular Function During Pregnancy.* Paper presented at Kansas City Area Life Sciences Research Day, Kansas City, MO.

Hines, T. (2000). *Cardiovascular Regulation during Pregnancy: Use of an Animal Model.* Paper presented at Eastern Nursing Research Society, Newport, RI.

Hines, T. (1997). *Effect of Cardiac Receptor Stimulation on Renal Vascular Resistance during Pregnancy.* Paper presented at Magee Women's Research Institute, Pittsburgh, PA.

Hines, T. (1997). *Alterations in Renal Vascular Regulation During Pregnancy.* Paper presented at Center for Clinical Pharmacology Seminar Series, University of Pittsburgh, Pittsburgh, PA.

Hines, T. (1996). *Neural Mechanisms Involved in Blood Volume Regulation During Pregnancy.* Paper presented at Reva Rubin Lectureship Pittsburgh, PA.

Honors

2003	Honor the Researcher Award, Midwest Nursing Research Society 27 th Scientific Conference
2003	Inductee, Sigma Theta Tau International Honor Society of Nursing
2002	Host Investigator for American Physiological Society Undergraduate Summer Research Fellow
2000	Certificate of Merit from the Friends of the National Institute for Nursing Research
1999	Honorary election to Phi Eta Sigma, University of Pittsburgh

1995	American Heart Association Grant-in-Aid (declined due to overlap with NIH funding)
1991	American Heart Association of Metropolitan Chicago Postdoctoral Fellowship (declined due to overlap with NIH funding)
1988	University of Louisville, Louisville, KY - Graduate Student Research Day winner
1978	Spalding University, Louisville, KY - graduation with honors
1977	National League for Nursing/Robert Wood Johnson Fellow in Public Policy

Membership in Professional and Scientific Societies

<u>Year</u>	<u>Organization</u>
2002-present	Midwest Nursing Research Society
1996-present	Human Anatomy and Physiology Society
1996-2002	Eastern Nursing Research Society 1996 – member, Vendor Committee
1995-2001	Magee Women's Research Institute, University of Pittsburgh, Assistant Research Faculty
1995-2001	Center for Neuroscience at the University of Pittsburgh
1995-present	Society for Gynecologic Investigation
1994-present	Cardiovascular Nursing Section of the American Heart Association
1993-present	Society for Neuroscience
1992-present	North American Society for the Study of Hypertension in Pregnancy
1988-present	International Society for the Study of Hypertension in Pregnancy 1996 – Member, Scientific Review Committee for Seattle meeting
1988-present	American Physiological Society

Research Focus

My research program focuses on autonomic regulation of cardiovascular function during pregnancy in the rat. Normal pregnancy is associated with marked increases in plasma volume and cardiac output, but decreases in arterial blood pressure and vascular resistance. Mechanisms for these changes are not known, but they are critical for the success of the pregnancy. Hemodynamics are altered early in pregnancy and these alterations are sustained throughout most of gestation. Thus, neural regulatory mechanisms must be altered during pregnancy to accommodate these changes. Recent investigations in my laboratory have determined that activity in the sensory receptors that regulate blood pressure and blood volume is attenuated in the late-pregnant rat. This alteration may facilitate maintenance of the hemodynamic changes of pregnancy. Importantly, the sensitivity of these neural pathways appears to be even further attenuated when preeclampsia develops, and recent studies have described alterations in baroreflex regulation in a rat model of human preeclampsia. Studies have been initiated into mechanisms for increased risk of cardiovascular disease in adult offspring of this rat model. Understanding the mechanisms by which nervous system regulation of cardiovascular function is altered in normal and pathologic pregnancies and defining the effects of pathologic pregnancies on future disease risk in offspring is critical for more effective prevention and treatment of cardiovascular disease in mothers and their children.

Research Grants

Predoctoral Grants

American Nurses Foundation, Predoctoral Research Scholar, \$2500.00 funded, 1985-1986
Tina Hines, RN, Principal Investigator, "Vascular Sensitivity in Prehypertensive Offspring "

Postdoctoral Grants

NIH, NHLBI, Individual NRSA, \$19,000.00 funded, 1991-1992

Tina Hines, Ph.D., R.N, Principal Investigator, W.M. Barron, Advisor, "Regulation of Vascular Resistance During Pregnancy"

NIH, NHLBI, Institutional NRSA, \$18,000.00 funded, 1989-1991

Tina Hines, Ph.D., R.N, Principal Investigator, M.D. Lindheimer, advisor, "Short-term Regulation of Blood Pressure During Pregnancy: Role of the Baroreceptor Reflex"

Research Grants

University of Missouri Kansas City School of Nursing, Women's Health Research Start-up Funds, \$17,000, funded 2008-

Do Genetic Differences Contribute to Fitness and Longevity in Females?

University of Missouri Research Board, \$26,200, 2007-2008

Tina Hines, Ph.D., R.N., Principal Investigator, "Glucocorticoid Programming of Cardiovascular Regulation in Adult Offspring of a Rat Model of Human Preeclampsia"

NIH, NINR, \$782,250, not funded, 2007-2010

Tina Hines, Ph.D., R.N., Principal Investigator, "Mechanisms for Disease Risk in Offspring of a Rat Model of Human Preeclampsia"

NIH, NINR, #2RO1NR004184-10, \$1,451,200, not funded, 2006-2010

Tina Hines, Ph.D., R.N., Principal Investigator, "Neural Cardiovascular Regulation in the Pregnant Rat"

American Heart Association, Heartland Affiliate, Grant-in-Aid, \$140,020, not funded, 2006-2007

Tina Hines, Ph.D., R.N., Principal Investigator, "Neural Control of Blood Pressure in the Hypertensive Rat: Role for Progesterone"

NSF STEM Grant Program, \$336,140, not funded, 2003-2006. "Do Active Learning Strategies Increase Retention of Acquired Knowledge?"

NIH, NINR, #2R01NR04184-05A1, \$1,081,820 funded, 2001-2007

Tina Hines, Ph.D., R.N., Principal Investigator, "Cardiac Receptor Activity in the Pregnant Rat"

American Physiological Society Summer Undergraduate Research Fellowship 2002. \$2,800 stipend to student, Dawn Grimes, \$500 stipend to host, Tina Hines, funded. "Effect of Osmolality on Baroreceptor Discharge in the Pregnant Rat"

NIH, NINR, #RO1 NR04184-01, \$446,148.00 funded, 1996-2000

Tina Hines, Ph.D., R.N., Principal Investigator, "Cardiac Receptor Activity in the Pregnant Rat"

Univ. of Pittsburgh Provost's Instrumentation Program, \$24,371.00 funded

Lorah Dorn, Ph.D., R.N., Principal Investigator, Tina Hines, Co-Investigator, "Development of an Inter-departmental Core Basic Instrumentation Program and Biobehavioral Science Research Library"

University of Pittsburgh Central Research Development Fund, \$14,000.00 funded, 1995-1997

Tina Hines, Ph.D., R.N., Principal Investigator, "Cardiac Receptor Reflexes During Pregnancy"

American Nurses Foundation, \$2700.00 funded, 1995-1996

Tina Hines, Ph.D., R.N., Principal Investigator, "Effect of Pregnancy on Cardiac Receptor Activity"

American Heart Association, \$82,719.00 funded, 1993-1995

Tina Hines, Ph.D., R.N., Principal Investigator, "Characterization of Neuronal Activity in Nucleus Tractus Solitarii Mediated by Cardiac Receptors in the Pregnant Rat"

Certification

2001

R.N. 2001026721

MO

Other Relevant Activities

Post-doctoral Fellowships

<u>Years</u>	<u>Institution and Location</u>	<u>Title</u>
1991-1994	University of Texas Health Science Center Dept. Pharmacology, San Antonio, TX	Postdoctoral Fellow
1989-1991	University of Chicago, Dept. OB/GYN Chicago, IL	Postdoctoral Fellow

Grant Reviewer

<u>Year</u>	<u>Agency</u>
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2004-2005	Charter member, Nursing Science, Children and Families Study Section, Center for Scientific Review
2003-	University of Missouri Research Board
2003	Chair, NIH Center for Scientific Review, Special Emphasis Panel: Nursing Research
2001-2005	Member Peer Review Panel for National Institute for Nursing Research
2001	Kansas City Area Life Sciences Institute
1999-2000	Member, Audit Team for NIH-funded Projects, University of Pittsburgh School of Nursing
1998-2000	Reviewer, Central Research Development Fund, University of Pittsburgh School of Nursing
1996-1998	Reviewer, Ruth Perkins Kuehn Award, University of Pittsburgh School of Nursing
1996-2000	Reviewer, Institutional Review Board proposals for scientific merit, Center for Nursing Research, University of Pittsburgh School of Nursing

Editorial Activities

Ad Hoc Journal Reviewer

1995-present	<i>American Journal of Physiology, Heart and Circulatory Physiology</i>
	<i>American Journal of Physiology, Regulatory, Integrative and Comparative Physiology</i>
	<i>American Journal of Hypertension</i>
	<i>American Journal of Obstetrics and Gynecology</i>
	<i>Hypertension</i>
	<i>Obstetrics and Gynecology</i>
	<i>American Journal of Applied Physiology</i>
	<i>Brain Research</i>

Consultation

International

1999-2001	Technical consultation on nerve recording techniques for doctoral student from the laboratory of Dr. Susan Jacobs, University of Edmonton, Alberta, Canada.
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University of Pittsburgh

1999-2001	Technical consultation on surgical procedures and nerve recording techniques for doctoral students from the laboratories of Dr. Alan Sved and Dr. Ed Stricker, Department of Neuroscience.
1999	Technical consultation on thermiodium cardiac output procedures for Dr. Kirk Conrad, Magee Women's Research Institute
1998-1999	Scientific review for Leadership in Nursing Award Committee of Eta Chapter, SigmaTheta Tau

Teaching

University of Louisville

1987-1989	Taught Clinical Diagnosis to Medical students and Obstetrical Residents in the Department of Obstetrics and Gynecology.
1987-1988	Taught Reparatory Physiology to undergraduate Nursing students in the Department of Physiology and Biophysics.

University of Texas Health Science Center at San Antonio

1993-1994	Invited lecturer in Cardiovascular Physiology to graduate (School of Dental Medicine) and undergraduate (School of Nursing) students
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University of Pittsburgh School of Nursing – Courses Taught

Undergraduate Courses

1996-2001	Course Director for Anatomy and Physiology Lecture and Laboratory Courses.
1996-2001	Human Anatomy and Physiology (NUR 0012-0013, 190-200 students)
1995-1996	Nursing Anatomy and Physiology Laboratory (NUR 0002-0003, 70 students).

Graduate Courses

2000	Advanced Human Physiology (NUR 2005, 6 students).
1999	Facilitator for Advanced Cardiopulmonary Physiology (NUR 3060, 5 students), taught by Dr. Steve DiCarlo, Wayne State University.

University of Pittsburgh School of Nursing – Invited Lectures*Graduate Courses*

1996-1999	Hematology. Pathophysiology Across the LifeSpan (NUR 2004).
1995-2001	Theory-based Research in Physiology. Nursing Research and Theory (NUR 2001).
1996, 1998	Microscopic Clinical Diagnostics. Clinical Diagnostics (NUR 2078).
1996, 1998	Theory Testing in an Animal Model. Research Emphasis Seminar (NUR 3040)
1995	Physiology of Pregnancy. Research Emphasis Seminar (NUR 3040)
1995	Physiology of Stress. Research Emphasis Seminar (NUR 3040)

University of Missouri-Kansas City*Undergraduate Courses*

2001-present	N120/160 Anatomy and Physiology. Course director for didactic and laboratory components.
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Graduate Courses

2006-present	N697 PhD Summer Institute
2005	N694 Directed Readings
2003	N600 Doctoral Seminar

University of Pittsburgh Department of Neuroscience – Research and Thesis advisor

1997-1998	Study Design and Laboratory Techniques (NEUROSCI 1901, 1 undergraduate honors student) Written Presentation (NEUROSCI 1962, 1 undergraduate honors student)
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University of Pittsburgh Magee Womens Research Institute – Research advisor

1998	Changes in Autonomic Control of Cardiovascular Function During Lactation (1 undergraduate summer fellow).
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University of Missouri Kansas City School of Nursing – Research advisor

2002	Effect of Osmolality on Baroreceptor Discharge in the Pregnant Rat. (1 undergraduate summer fellow, funded by APS)
2003	Do Active Learning Strategies Increase Retention of Acquired Knowledge? (3 Masters Directed Research students)

Thesis and Dissertation Committees

2006-present	PhD Supervisory Committee	Chair	1 University of Missouri Kansas City School of Nursing
2003-present	PhD Supervisory Committee	Member	5 University of Missouri Kansas City School of Nursing
2003-2007	PhD Supervisory Committee	Member	1 University of Kansas School of Education
2003-2006	PhD Supervisory Committee	Member	1 University of Missouri Kansas City Division of Pharmacology
1999-2001	Dissertation Committee	Chair	1 University of Pittsburgh School of Nursing
1998	Ph.D. Committee	Member	2 University of Pittsburgh School of Nursing 1 University of Pittsburgh Department of Neuroscience
1998	Masters Project	Advisor	1 University of Pittsburgh Department of Neuroscience
1998	Undergraduate Theses	Chair	1 University of Pittsburgh Department of Neuroscience

University Service Activities**University Committees – University of Pittsburgh**

1999-2001	Member, Advisory Committee for the Health Sciences Library System
1999	Member, Committee to report on training at Magee Women's Research Institute

1998–2001	Member, Institutional Animal Care and Use Committee
2000 - 2001	Chair, Institutional Animal Care and Use Committee
1998-1999	Member, University Council on Graduate Study
1996-2001	Member, University Graduate Faculty

School Committees – University of Pittsburgh School of Nursing

1999-2000	Member, Policy Committee
1997-1998	Member, Ph.D. Task Force for B.S.N. to Ph.D. Curriculum Development
1996-present	Member, Ph.D. Council
1995-1998	Member, Curriculum Committee
1995-1997	Member, Academic Integrity Review Committee
1995-1996	Member, Department of Health Promotion and Development Research Funds Committee
1995-1996	Member, Vendor Committee for Eastern Nursing Research Society Conference

University Committees – University of Missouri Kansas City

2007	Member, UMKC Provost Search Committee
2006-2007	Member, UMKC Health and Life Sciences Action Commission
2006-present	Member, Endowed Chairs Committee, School of Medicine
2006-2007	Member, Physiology Search Committee, Schools of Nursing and Medicine
2006	Member, 5-year Review Committee for Endowed Professor, Dr. Melvin Butler, School of Medicine
2005	Member, UMKC Research Advisory Council
2005	Member, Research Committee of Center of Excellence in Women's Health
2004	Member, University Resources Subcommittee
2003-2004	Member, Search Committee for Dean of School of Nursing
2003	Consultant, Lab Animal Facility renovation grant (NIH C06)
2002-present	Member, Life Sciences Millennium Committee
2002-present	Advisor, UMKC Laboratory Animal Facility Subcommittee
2002	Member, 5-year Review Committee for Endowed Professor, Dr. Ben McCallister, School of Medicine
2002	Judge, Student-Faculty Research Day, School of Medicine
2002	Member, Search Committee for Dean of School of Biological Sciences

School Committees – University of Missouri-Kansas City School of Nursing

2007-present	Chair, Faculty Development and Advancement Committee
2006-present	Member, Faculty Steering Committee
2006-present	Member, Faculty Assembly
2003-2006	Chair, Appointment, Promotion and Tenure Committee
2001-present	Member, PhD Committee
2001-present	Chair, Research Faculty Committee
2001-present	Member, Faculty Forum Committee
2001	BSN Committee, BSN Admissions Committee
2001	Chair, Search Committee Associate Dean for Graduate Studies
