

**CURRICULUM VITAE FOR  
LESLIE S. RITTER, PHD, RN, FAAN, FAHA, ANVP-BC**

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**CHRONOLOGY OF EDUCATION**

<u>Date</u>	<u>Institution and Location</u>	<u>Degree conferred</u>	<u>Major subject</u>
1974	University of Arizona Tucson, AZ	B.S.	Nursing
1981	University of Arizona Tucson, AZ	M.S.	Nursing
1992	University of Arizona Tucson, AZ	M.S.	Exercise and Sport Sciences
1996	University of Arizona Tucson, AZ	Ph.D.	Physiological Sciences

Title of Dissertation: Locations and Mechanisms of Leukocyte Accumulation in the Coronary Microcirculation During Reperfusion Following Ischemia

Dissertation Director: Paul F. McDonagh, PhD

Major Fields/Interests: Ischemic Stroke, Cardiovascular Disease, Diabetes, Inflammation

**CHRONOLOGY OF EMPLOYMENT**

<u>Appointments/ Dates</u>	<u>Institution</u>	<u>Positions Held</u>
1974-1984 Charge Nurse	St. Mary's Hospital and Health Center Tucson, AZ	Staff Nurse and Coronary Intensive Care
1984-1986 Educator	St. Mary's Hospital and Health Center Tucson, AZ	Staff Nurse and Unit Coronary Intensive Care
1985-1986	University of Arizona College of Nursing Tucson, AZ	Associate Clinical Professor
1986-1995	St. Mary's Hospital and Health Center (Diem) Intensive Tucson, AZ	Staff Nurse (Per Care)
1989	Pima Community College Department of Nursing Tucson, AZ	Associate Clinical Professor
1996-2002	Dept. Neurology, Univ. of Arizona Tucson, AZ	Research Associate
1999-2004	College of Nursing, Univ. of Arizona Tucson, AZ	Assistant Professor
2002-2004	Dept. Neurology, Univ. of Arizona Tucson, AZ	Assistant Professor
2004-2010	College of Nursing, Univ. of Arizona Tucson, AZ	Associate Professor
2004-2010	Dept. Neurology, Univ. of Arizona Tucson, AZ	Associate Professor

2007-Present	Primary Stroke Center, Univ. Ariz Medical Ctr Tucson, AZ	Faculty Coordinator
2010-Present	College of Nursing, Univ. of Arizona Tucson, AZ	Professor
2010-Present	Dept. of Neurology, Univ. of Arizona Tucson, AZ	Professor

### LICENSURE AND CERTIFICATIONS

1974-present	RN, State of Arizona, License # 030412
2013-present	Acute Neurovascular Practitioner Board Certified (AVNP-BC) Association of Acute Neurovascular Clinicians, #154

### HONORS AND AWARDS

11/1991	Heart Run Research Fund Recipient, Department of Exercise and Sport Sciences, University of Arizona, Tucson, AZ
11/1993	First Place , Biological, Biomedical and Health Sciences Showcase, University of Arizona, Tucson, AZ. Poster titled "Direct Observations of Leukocytes in the Coronary Microcirculation During Reperfusion Following Ischemia"
9/1994	Society for Leukocyte Biology Travel Award, 13th Annual Society for Leukocyte Biology Meeting, Tucson, AZ
1995	August Krogh Young Investigator Award, Microcirculatory Society, Atlanta, GA
1996	Mary P. Weiderman Award, Microcirculatory Society, travel award to attend the 6th World Congress for Microcirculation, Munich, Germany
2000	Presidential Early Career Award for Scientists and Engineers. This award was presented to 59 scientists nationwide. The nomination for the award was put forth by the NIH NINR for "Innovative research related to mechanisms of inflammation and thrombosis that impact the recovery from stroke." The award was presented at the White House, Washington, DC
2002	Suzanne Van Ort Peer Award for Teaching, College of Nursing, University of Arizona
2008	Suzanne Van Ort Peer Award for Teaching, College of Nursing, University of Arizona
2009	Fellow American Academy of Nursing (FAAN)
2010-2013	Acute Stroke Fellowship, Neurovascular Education and Training in Stroke Management and Acute Reperfusion Therapy (NET SMART), Health Resources and Service Administration (HRSA), A. Alexandrov, RN, PhD, FAAN, Director

2009 Excellence in Teaching Award, College of Nursing, University of Arizona  
2011-present William M. Feinberg MD Endowed Chair for Stroke Research  
2013-present Fellow, American Heart Association (FAHA)

**SERVICE (Selected)****Professional Organizations**

American Heart Association (National)

1992- ~2002 Member  
2009-present Member, Council on Cardiovascular Nursing  
2009-present Member, Council on Stroke

American Heart/Stroke Association, (Affiliate Pacific Mountain (PMA)/Western States (WSA))

1994-1997 Member, Annual Heart and Stroke Update Committee  
2004-2007 Member, PMA Stroke Task Force  
2010-present Member, PMA/WSA Research Committee  
2011-present Member, WSA Stroke Task Force  
2010-2011 Member, Peer Review  
2011-present Co-Chair, Peer Review

American Heart and Stroke Association (Local)

1998-2000 Co-Director, Operation Stroke  
1998-2002 Board Member and Speaker's Bureau  
2002-2003 Co-Director, Stroke Check

Arizona Dept. Health Services,  
Chronic Disease Task Force

2006-2008 Member

Arizona Stroke Initiative Member  
2008-present

Tucson Stroke Leadership  
Group

2008-present Co-founder and member

Microcirculatory Society

1994-present Member



- 2008-2009 Member, Committee on Conciliation  
2009-2010 Chair, Committee on Conciliation  
2009-2010 Faculty at Large, Grievance Committee, Graduate Council  
2009-present Member, Institutional Review Committee  
2010-2013 Member, Committee on Ethics  
2012-2013 University President's Search Committee for Vice President of Health Sciences  
2013-present Member, Education Committee, Physiological Sciences Interdisciplinary Graduate Program

**Manuscript Reviewer**

- 1998-present American Journal of Physiology, Heart and Circulatory Physiology  
1999-present Biological Research for Nursing  
2002-present Microcirculation  
2009-present Journal of Cardiovascular Nursing

**Journal Editorial Boards**

- 2009-present Biological Research for Nursing  
2010-present Journal for Cardiovascular Nursing

**Consultantships**

- 5/2002 NIH National Institute of Nursing Research, Spring Science Workgroup, Increasing Nursing Research Opportunities in Bioterrorism  
11/2002 NIH National Institute of Nursing Research, Research Themes Workgroup  
5/2006 Distance Learning Strategies for Graduate Nursing; Vanderbilt University, Nashville, TN  
4/2007 Combining Nursing Science and Practice to Establish an International Program for Nurses, School of Nursing, University of Bologna, Italy  
10/2010 Building Research Capacity, School of Nursing, University of Bologna

**SCHOLARLY PRESENTATIONS (Selected)****Professional Seminars**

- 5/2003 "Neuroprotection After Stroke...the Search Continues," Physiological Sciences Graduate Program Seminar, University of Arizona, Tucson, AZ.  
3/2004 "Aging and Stroke: the role of inflammation", Center on Injury Mechanisms and Related Responses, College of Nursing, University of Arizona, Tucson, AZ

- 1/2006 Diabetes and the Inflamed Brain, Center on Injury Mechanisms and Related Responses, College of Nursing, University of Arizona, Tucson, AZ
- 5/2007 “Diabetes, Inflammation, and Stroke” Frontiers in Biomedical Research, University of Arizona, Tucson, AZ
- 1/2008 “An Inquiry into the Practice of Nursing Science: Inflammation During Stroke and Reperfusion”, University of Arizona College of Nursing 50<sup>th</sup> Anniversary Symposium, Tucson, AZ
- 3/2008 “Novel Neuroprotection in Acute Stroke” Frontiers in Biomedical Research, University of Arizona, Tucson, AZ
- 12/2008 “Primary Stroke Centers: Striving for Excellence in Stroke Care” Neurology/Neurosurgery Grand Rounds, University Medical Center, Tucson, AZ
- 1/2009 “The ZDF as a Model of Type 2 Diabetes”, University of Arizona Diabetes Interest Group, Toolbox Seminar Series, University of Arizona, Tucson, AZ
- 4/2010 Diabetes exaggerates injury to the cerebral microcirculation after stroke. Neurology/Neurosurgery Grand Rounds, University Medical Center, Tucson Arizona.
- 9/2010 “Stroke Research: Bench to Bedside. How diabetes affects outcome after stroke.” Neuroscience Symposium, Banner Health Systems, Phoenix, Arizona
- 5/2011 “Does Inflammation Matter in Acute Stroke?” Frontiers in Medicine, College of Pharmacy and Medicine Seminar Series, University of Arizona, Tucson, AZ
- 4/2012 “Diabetes exaggerates Reperfusion Injury in Stroke: From Bench to Bedside.” Neuroscience Grand Rounds, Univ of AZ, Tucson, AZ
- 9/2012 “Stroke program update: Quality Matters!” Neuroscience Grand Rounds, Univ of AZ, Tucson, AZ
- 4/2013 “Dysphagia Screening Best Practices”, AHA Workshop, Tempe, Arizona

**Professional Conferences**

- 6/2003 Ritter, L. “Neuroprotection after Stroke...the Search Continues.” 4<sup>th</sup> Annual Stroke Symposium, American Stroke Association, Tempe, AZ

- 4/2004 LaBonte L, Tipton R, Wilson J, Davis-Gorman G, McDonagh P, Ritter L. Leukocyte-platelet aggregates may increase in the peripheral circulation during early reperfusion after 2 hours of ischemic stroke. *FASEB J*: 18, A617.
- 1/2005 Ritter L, Maes M. Detection of platelet-leukocyte conjugates in normal and diabetic mice using flow cytometry. AAN Conference, Washington, DC
- 4/2006 L. Ritter, “Combining Nursing Science and Practice: A Model for an International Program for Undergraduate Stroke Nurses”, College of Nursing, University of Bologna, Italy
- 10/2006 Developing a Doctorate of Nursing Practice Program in a Traditional PhD Program, S. Reel, L. Ritter, D. McArthur, M. Isenberg. AACN Doctoral Conference, Captiva, FL
- 9/2007 L. Ritter, Davidson, L, McDonagh, P. “Exaggerated leukocyte adhesion in the cerebral microcirculation of type 2 diabetic rats after ischemic stroke and reperfusion”, International Microcirculatory Conference, NH
- 4/2007 Cohen Z; Davidson, L; Ritter, L. Platelet aggregation requires caspases, but is not apoptosis Experimental Biology, Washington, DC
- 4/2008 Morrison H, McDonagh P, Stahl G, and Ritter L. Inhibition of mannose-binding lectin decreases infarction size after ischemic stroke and reperfusion. Experimental Biology, San Diego, CA

### **Community**

- 1/2006 “Heart Attacks and Stroke—the Facts”, Tucson International Airport Authority Employee Health Symposium, Tucson, AZ
- 2/2007 “Brain Attack: It’s About Time”, Sarver Heart Center Annual Heart of the Matter Conference, Tucson, AZ
- 5/2007 “Stroke Check—Why Screen for Stroke?” American Stroke Association-Tucson Hospital Partnership Program, Tucson, AZ
- 2/2008 “Stroke: Act Fast”, Sarver Heart Center Lecture Series, Green Valley, AZ
- 5/2008 “High Blood Pressure and Stroke”, Yuma Friends of the Sarver Heart Center Conference, Yuma, AZ
- 10/2008 “Women and Stroke” Sarver Heart Center Annual Women’s Conference, Tucson, AZ
- 2/2009 “Stroke and Heart Facts,” Sarver Heart Center Annual Heart of the Matter Conference, Tucson, AZ
- 5/2009 “Evidence Based Practice and Research in Southern Arizona”, keynote speaker, University Medical Center and University of Arizona College of Nursing.



- 4/2010 From Bench to Bedside: “Evidence for exaggerated inflammation in diabetes and stroke.” American Diabetes Association, Phoenix, Arizona
- 10/2010 From Bench to Bedside: “Evidence for exaggerated inflammation in diabetes and stroke.” Banner Neuroscience Symposium, Phoenix, Arizona
- 10/2010 Nursing Research: Building the infrastructure and culture for success. School of Nursing, University of Bologna, Italy
- 2/2011 Different Strokes for Different Folks, Sarver Heart Center Heart of the Matter Conference, Tucson, AZ
- 5/2011 Stroke Update: Sarver Heart Center Green Valley Community Lecture Series, Green Valley, AZ
- 12/2011 Does inflammation matter? University of Arizona College of Science Lecture Series, Saddlebrook, AZ
- 2/2012 Stroke Health, Stroke Update: Sarver Heart Center Heart of the Matter Conference, Tucson, AZ
- 4/2012 Stroke: the power of community. Sarver Heart Center Green Valley Community Lecture Series, Green Valley, AZ
- 11/2012 Stroke in Southern Arizona, Moderator and presenter, 1<sup>st</sup> Annual Southern Arizona Stroke Conference, Tucson, AZ
- 2/2013 Stroke of luck: the power to fight brain attacks Sarver Heart Center Heart of the Matter Conference, Tucson, AZ

## **PUBLICATIONS:**

### **Chapters in Scholarly Books and Monographs:**

- 1996 Ritter, L., Davis-Gorman, G., Cimetta, A., & McDonagh, P. During low flow myocardial reperfusion, leukocyte retention in capillaries is reduced by fucoidin. In: 6th World Congress for Microcirculation. K. Messmer and W.M. Kubler, eds. Monduzzi Editore, Bologna (Italy), pp. 449-452.

### **Refereed Journal Articles:**

- 1993 Henriksen, E.J. & Ritter, L. Effect of soleus unweighting on stimulation of insulin-independent glucose transport activity. J. Appl. Physiol. 74(4): 1653-1657.
- 1993 Henriksen, E.J. & Ritter, L. Effect of insulin-like factors on glucose transport activity in unweighted rat skeletal muscle. J. Appl. Physiol. 75(2); 820-824
- 1993 Henriksen E.J., Schneider, M.C. & Ritter, L.S. Regulation of contraction stimulated system A amino acid uptake in skeletal muscle: role of vicinal sulfhydryls. Metabolism, 42, 440-445.

- 1996 Ritter, L.S., Wilson, D.S., Williams, S.K., Copeland, J.G. & McDonagh, P.F. Early in reperfusion following myocardial ischemia, leukocyte activation in necessary for venular adhesion but not capillary retention. Microcirculation 2(4), 315-327.
- 1996 Ritter, L.S., Wilson, D.S., Williams, S.K., Copeland, J.G., & McDonagh, P.F. Pentoxifylline reduces leukocyte retention in the coronary microcirculation early in reperfusion following ischemia. International Journal of Microcirculation, Clinical And Experimental, 16, 170-179.
- 1997 Ritter, L.S. & McDonagh, P.F. Low flow reperfusion following ischemia enhances leukocyte accumulation in the coronary microcirculation. American Journal of Physiology, Heart and Circulatory Physiology, 273, H1154-H1165.
- 1998 Ritter, L.S., Davis-Gorman, G., Copeland, J.G., & McDonagh, P.F. Fucoidin reduces coronary microvascular leukocyte accumulation early in reperfusion. Annals of Thoracic Surgery, 66, 2063-2072.
- 2000 Ritter, L.S., Coull, B.M., & McDonagh, P.F. Leukocyte accumulation and hemodynamic changes in the cerebral microcirculation during early reperfusion following stroke. Stroke, 31, 1153-1161.
- 2000 Hokama, J.Y., Ritter, L.S., Davis-Gorman, G., Cimetta, A., Copeland, J.G., & McDonagh, P.F. Diabetes enhances leukocyte accumulation in the coronary microcirculation early in reperfusion following ischemia. Journal of Diabetes and Its Complications, 14, 96-107.
- 2001 Gale, S.C., Hokama, J.Y., Ritter, L.S. Gorman, G., Copeland, J.G., & McConagh, P.F. "Pentoxifylline reduces leukocyte accumulation in the coronary microcirculation early in the reperfusion of cold cardioplegia-protected hearts." Annals of Thoracic Surgery, 7, 1305-1311.
- 2002 Ruehl, M., Orozco, J., Stoker, M., McDonagh, P., Coull, B., & Ritter, L. "Protective effects of inhibiting both blood and vascular selectins after stroke and reperfusion." Neurological Research, 24(3), 168-175.
- 2003 Funk, J., Migliati, E., Chen, G., Wei, H., Wilson, J., Downey, K., Mullarky, P., Coull, B., McDonagh, P., and Ritter, L. "Parathyroid hormone-related protein induction in focal stroke: a neuroprotective vascular peptide." Am J Physiol Regulatory Integrative Comp Physiol, Apr 2003; 284: R1021 - 1030.

- 2004 Cohen, Z., Wilson, J., Ritter, L. & McDonagh, P. Caspase inhibition decreases both platelet phosphatidylserine exposure and aggregation: Caspase inhibition of platelets. Thrombosis Research, 113(6):387-393.
- 2005 Ritter LS, Stempel KM, Coull BM, McDonagh PF. Leukocyte-platelet aggregates in rat peripheral blood after ischemic stroke and reperfusion. Biological Research for Nursing, 6: 281-288.
- 2007 Maes, ML., Davidson, LB., McDonagh PF., & Ritter, LS. Comparison of sample fixation and the use of LDS-751 or anti-CD45 for leukocyte identification in mouse whole blood for flow cytometry. Journal of Immunological Methods, 319: 79-86.
- 2008 Henry ML, Davidson LB, Wilson JE, McKenna BK, Scott SA, McDonagh PF, Ritter LS. Whole blood aggregation and coagulation in db/db and ob/ob mouse models of type 2 diabetes. Blood Coagul Fibrinolysis. 2008 Mar;19(2):124-34.
- 2008 Ritter, L. Ischemia-reperfusion injury after stroke: from mechanisms to a nursing process. Nurs Sci Q. 2008 Jan;21(1):41-2.15.
- 2008 Ritter L, Funk J, Schenkel L, Tipton R, Downey K, Wilson J, Coull B, McDonagh P. Inflammatory and hemodynamic changes in the cerebral microcirculation of aged rats after global cerebral ischemia and reperfusion. Microcirculation, 15:297-310.
- 2008 Cohen Z, Davis-Gorman G, McDonagh P, Ritter L. Caspase Inhibition of Platelet Activation. Blood Coagul Fibrinolysis, 19:305-309.
- 2009 Rentfro A, McEwen M, Ritter L. Perspectives for Practice: Translating Estimated Average Glucose (eAG) to Promote Diabetes Self-Management Capacity. The Diabetes Educator July/August 2009; 35(4), 581-594.
- 2009 Henry M, Davidson L, Cohen Z, McDonagh P, Nolen P, Ritter L. Whole Blood Aggregation, Coagulation, and Markers of Platelet Activation in Diet-Induced Diabetic C57BL/6J Mice. Diabetes Res Clin Pract. 2009 Apr;84(1):11-28.
- 2011 Morrison H, Frye J, Davis-Gorman G, Funk J, McDonagh P, Stahl G, Ritter L. The contribution of mannose binding lectin to reperfusion injury after ischemic stroke. Curr Neurovasc Res. 2011 Feb;8(1):52-63.
- 2011 Morrison H, McKee D, Ritter L. Systemic neutrophil activation in a mouse model of ischemic stroke and reperfusion. Biol Res Nurs. 2011 Apr;13(2):154-63

- 2011 Ritter L, Davidson L, Henry M, Davis-Gorman G, Morrison H, Frye JB, Cohen Z, Chandler S, McDonagh P, Funk J. Exaggerated neutrophil-mediated reperfusion injury after ischemic stroke in a rodent model of type 2 diabetes. Microcirculation. Oct;18(7):552-61. doi: 10.1111/j.1549-8719.2011.00115.x.
- 2011 Wysocki K, Ritter L. Diseasesome: an approach to understanding gene-disease interactions. *Annu Rev Nurs Res*. 2011;29:55-72. Review. PMID: 22891498
- 2011 Gallek MJ, Ritter L. Central nervous system genomics. *Annu Rev Nurs Res*. 2011;29:205-26. Review. PMID: 22891506
- 2012 Siaki LA, Loescher LJ, Ritter L. A cultural perspective of Samoans' perceived risk of cardiovascular disease and diabetes. *J Cardiovasc Nurs*. 2012 Nov-Dec;27(6):468-75. doi: 10.1097/JCN.0b013e31822b9be3. PMID: 21912273
- 2012 Ganzer, C. A., Insel, K., & Ritter, L. Associations between working memory capacity, health literacy and recall of the warning signs of stroke among older adults. *J Neurosci Nurs*. Oct;44(5):236-43. doi: 10.1097/JNN.0b013e3182666231.
- 2013 Funk J, Frye J, Davis-Gorman G, Spera A, Bernas M, Witte M, Weinand M, Timmermann B, McDonagh P, Ritter L. Curcuminoids Limit Neutrophil-Mediated Reperfusion Injury in Experimental Stroke by Targeting the Endothelium. Microcirculation. March 6, 2013 doi: 10.1111/micc.12054.
- 2013 Haynes H, Gallek M., Sheppard K, Drake K, **Ritter, L.** Elements of a Doctor of Nursing Practice-led Transitions of Care Model for Stroke and TIA. In review, Oct 2013, *Journal of American Association of Nurse Practitioners*, reference number JAANP-2013-10-08.

#### Refereed Published Abstracts:

- 1992 Henriksen, E.J., Schneider, M.S., & Ritter, L.S. Stimulation of system A neutral amino acid transport activity in rat skeletal muscle by contractions: role of vicinal sulfhydryls. The FASEB Journal, Part I, 6(4), p. A961.
- 1992 Ritter, L.S., Henriksen, E.J., & Leonard, B.P. Soleus unweighting by hindlimb suspension does not increase the maximal capacity for contraction-or hypoxia-stimulated glucose transport. The FASEB Journal, Part I, 6(4), p. A961.
- 1994 Ritter, L., Wilson, D., Williams, S., Copeland, J., & McDonagh, P. Early in reperfusion following myocardial ischemia, leukocyte activation is necessary for venular adhesion but not capillary retention. Journal of Leukocyte Biology Supplement, p. 27.

- 1994 Ritter L., Wilson, D., Williams, S., Copeland, J., & McDonagh, P.F. Early in reperfusion leukocytes accumulate in both coronary capillaries and postcapillary venules. Direct observations. The FASEB Journal, Part II, 8(5), A1055.
- 1995 Ritter, L., Wilson, D., Copeland, J., Williams, S., & McDonagh, P. Pentoxifylline reduces coronary capillary leukostasis following myocardial ischemia. The FASEB Journal, 9, A49.
- 1995 Ritter, L.S., Wilson, D.S., Davis-Gorman, G., Williams, S.K., Copeland, J.G., & McDonagh, P.F. "During reperfusion after myocardial ischemia, reduced blood flow enhances leukostasis in the coronary microcirculation". Circulation (Supp I) 92, I-713.
- 1998 Ritter, L.S., Coull, B.M., Davis-Gorman, G., & McDonagh, P.F. "Early in reperfusion following stroke, leukocytes rapidly accumulate in the cerebral microcirculation", Stroke, 29(1), 329.
- 1998 Ritter, L.S., Coull, B.M., Davis-Gorman, G., & McDonagh, P.F. "Leukocytes accumulate in the cerebral microcirculation during the first hour of reperfusion following stroke." The FASEB Journal, 12 (4), A32.
- 1998 Sloviter, R.S., Ritter, L.S., Goodman, J.H., & Wieloch, T. "Differential vulnerability of rat hippocampal dentate gyrus interneurons after global ischemia or seizures". Soc. Neurosci. Abstr. 24, 1934.
- 1999 Ritter, L.S., Coull, B.M., McDonagh, P.F. "Middle cerebral artery occlusion and reperfusion results in significant leukocyte accumulation in the microcirculation." The FASEB Journal, 13(5),13-29.
- 1999 Ritter, L., Coull, B., McDonagh, P., & McDonagh, J. Reduced shear rate is associated with significant leukocyte accumulation in the cerebral microcirculation after middle cerebral artery occlusion and reperfusion", Soc. Neuroscience Abstracts, 25, 1033.
- 2000 Ritter, L., Orozco, J., Coull, B., & McDonagh, P. "An increase in leukocyte rolling in venules is observed during early leukocyte reperfusion after stroke" The FASEB Journal, 14(4), p. A13., 2000.
- 2000 Ritter, L., Ruehl, M., Orozco, J., Parsons, L.C., McDonagh, P., & Coull, B. "Protective effects of inhibiting both blood and vascular selectins after stroke and reperfusion." Society for Neuroscience Abstracts, Part 2, Vol 26, p. 1809, 2001.

- 2001 Ritter, L., Orozco, J., Stempel, K., Mendoza, S., Coull, B., & McDonagh, P. "Evidence of leukocyte-platelet aggregation after stroke and reperfusion." The FASEB Journal, 5(4), p. A36.
- 2001 Ritter, L., Orozco, J., Stempel, K., Mendoza, S., Mathews, S., Parsons, C., McDonagh, P., & Coull, "Selectin and GPIIb/IIIa inhibition decreases PMN-platelet aggregation during early reperfusion after stroke." Soc. Neuroscience Abstr., Vol. 27, Program No. 572.14.
- 2002 Ritter L, Schenkel L, Migliati E, Wilson J, McDonagh P, Coull B. Global cerebral ischemia and reperfusion in aged rats is associated with an exaggerated inflammatory response and decreased blood flow. The FASEB Journal, Vol. 16: A121-A122.
- 2003 Cohen Z, Wilson J, Ritter L, McDonagh PF. Caspase inhibition decreases both platelet phosphatidylserine exposure and aggregation. FASEB J 2003;17:A368.
- 2003 Migliati E, Wilson J, Coull B, McDonagh P, Ritter L. A model to examine the inflammatory response in the mouse cerebral microcirculation after stroke and reperfusion. FASEB J 2003;17:A543.
- 2003 Wilson J, Cohen Z, Coull B, McDonagh P, Ritter L. Fucoidan significantly inhibits platelet aggregation. FASEB J 2003;17:A690.
- 2003 Maes M, Cohen Z, Wilson J, Coull B, McDonagh P, Ritter L. Use of flow cytometry to examine inflammatory markers in blood from db/db mice. FASEB J 2003;17:A262.
- 2003 Tipton A, Downey K, Frank OC, Migliati E, Wilson J, McDonagh P, Funk J, Ritter L. Neutrophil function in aged versus young rats subjected to global cerebral ischemia and reperfusion. FASEB J 2003;17:A262.
- 2004 LaBonte L, Tipton R, Wilson J, Davis-Gorman G, McDonagh P, Ritter L. Leukocyte-platelet aggregates may increase in the peripheral circulation during early reperfusion after 2 hours of ischemic stroke. FASEB J: 18, A617.
- 2005 Ritter L, Maes M. Detection of platelet-leukocyte conjugates in normal and diabetic mice using flow cytometry. Biological Research for Nursing: 6(4), 316-317.
- 2005 Davidson, L; McDonagh, PF; Nolan, P; Ritter, L. Fucoidan is nearly as effective as aspirin in inhibiting platelet aggregation in whole blood. FASEB J: 19, A45.
- 2005 Maes, M; Davidson, L; McDonagh, P; Ritter, L. Comparison of cell fixation and use of LDS-751 and CD45 to identify mouse leukocytes and measure

- granuloctyte function with flow cytometry. FASEB J: 19: A1083.
- 2005 Pacheco, GS; Davis-Gorman, G; Davidson, L; Miller, L; Finnerty, K, James, Raysenia; Skroback, D; Rittler, L; Nolan, P; McDonagh P. Whole blood platelet aggregation in an animal model of type 2 diabetes. FASEB J: 19, A1531.
- 2006 Davidson, L; Wilson, J; Maes, M; McDonagh, P; Ritter, Leslie. Platelet aggregation is not increased in db/db and ob/ob diabetic mice. FASEB J: 20, A653.
- 2006 Maes, M; Davidson, L; McDonagh, P; Ritter, L. Platelet microparticle formation is increased in mice with diet-induced diabetes. FASEB J: 20, A657.
- 2007 Ritter, L; Cohen, Z; Maes, M; Davidson, L; Sowers, J; Stump, C; Coull, B; McDonagh, P. Exaggerated leukocyte adhesion in the cerebral microcirculation of type 2 diabetic rats after ischemic stroke and reperfusion FASEB J. 21:899.14
- 2007 Zoe Cohen Z; Davidson, L; Ritter, L. Platelet aggregation requires caspases, but is not apoptosis FASEB J. 21:864.5
- 2008 Morrison H, McDonagh P, Stahl G, and Ritter L. Inhibition of mannose-binding lectin decreases infarction size after ischemic stroke and reperfusion. FASEB J. 22:733.2
- 2009 Morrison H, Davis-Gorman G, Frye J, McDonagh P, Funk J, and Ritter L. Neutrophil activation during reperfusion after ischemic stroke in mice. FASEB J. 2009 23:615.1
- 2010 Ritter, L, Funk J, Spera A, Beischel J, Davis-Gorman G, and Morrison H. Curcumin: novel therapeutic for stroke. International Society for Microcirculation, Conference Proceedings, April 2010, Columbia, Missouri.
- 2010 Morrison H, McKee D, McDonagh P, and Leslie Ritter L. Mannose binding lectin modulates cerebral injury after ischemic stroke and reperfusion. FASEB J. 2010 24:604.11.
- 2011 Lei H, Davis-Gorman G, McDonagh P, Ritter L. Electroacupuncture increases cerebral blood flow during ischemic stroke. FASEB J, April
- 2013 Haynes H, Drake K, Ritter L. DNP-led transitions of care model for patients with ischemic stroke and TIA. Abstract, International Stroke Conference, Honolulu, HI

## GRANTS and CONTRACTS

**Federal**

- 1998-1999     Title: Cerebral vascular leukocyte accumulation after stroke.  
Effort: 100%  
Role: Principal Investigator, Postdoctoral Fellowship  
Source: National Institute of Health, National Institute of Nursing Research, 1  
F32 NR07318-01 Amount: \$27,410
- 2000-2006     Title: Inflammatory and thrombotic interactions in stroke.  
Effort: 35%  
Role: Principal Investigator  
Source: National Institute of Health, National Institute of Nursing Research, NIH  
RO1 NR05208 Amount: \$818,311
- 2001-2004     Title: Exploratory Center on Injury Mechanisms and Related Responses.  
Effort: 5%  
Role: Co-investigator (Principal Investigator Ki Moore)  
Source: National Institute of Health, National Institute of Nursing Research. 1P20  
NR07794-03 Amount: \$648,642.
- 2002-2008     Title: Injury Mechanisms and Related Responses.  
Effort: 10%  
Role: Co-Investigator /Core Faculty (Principal Investigator, Ki Moore)  
Source: National Institute of Health, National Institute of Nursing Research., 1 T32 NR07958-  
02  
Amount: \$991,082.
- 2003-2004     Title: Inflammation in Diabetic Mice with Stroke  
Effort: 15%  
Role: Principal Investigator  
Source: National Institute of Health, National Institute of Nursing Research. 1P20  
NR07794-03 Amount: \$20,000
- 2003-2009     Title: Ischemia-reperfusion Injury in the Diabetic Heart  
Effort: 5%,  
Role: Co-Investigator (Principal Investigator, Paul McDonagh)  
Source: National Institutes of Health, HLBI, 1R01HL/DK 58859-06



**State**

2000-2003 Title: Investigation of a novel neuroprotective agent in stroke  
Effort: 15%  
Role: Co-investigator (Principal Investigator, Janet Funk)  
Source: Arizona Disease Control Research Commission  
Amount: \$450,000.

2008-2011 Title: Novel use of a natural product for stroke prevention  
Effort: 35%  
Role Principal Investigator  
Source: Arizona Biomedical Research Commission  
Amount: \$150,000

**Private Foundation/Industry**

1998-1999 Title: Cerebral vascular leukocyte accumulation after stroke  
Effort: 15%  
Role: Principal Investigator  
Source: American Heart Association, Arizona Affiliate SWA-GB-04-98  
Amount: \$29,982.

1999-2001 Title: Leukocyte-platelet interactions during early reperfusion after stroke  
Effort: 15%  
Role: Principal Investigator  
Source American Heart Association, Arizona Affiliate. 9960297Z  
Amount: \$60,000

**Intramural**

1999-2001 Title: Effects of aging on the cerebral inflammatory response after stroke.  
Effort: 5%  
Role: Principal Investigator  
Source: University of Arizona Small Grants Program  
Amount: \$5,000

- 2006-2007 Title: Enhanced oxidative stress in diabetic patients with stroke: role of polymorphonuclear leukocyte and platelet NADPH oxidase.  
Effort: 5%  
Role: Principal Investigator  
Source: University of Arizona Sarver Heart Center Bettie F. Pitts Memorial Heart Disease Research Award  
Amount: \$20,000
- 2007-2008 MBL Inhibition: Novel Neuroprotection for Ischemic Stroke  
Effort: 5%  
Role: Principal Investigator  
Source: University of Arizona College of Nursing Laurence B. Emmons Research Award Amount: \$20,000
- 2010-present Relationship Among ApoE Genotypes, Novel Inflammatory Markers, and Traditional Risk Factors in African Americans with Ischemic Stroke  
Effort: 5%  
Role: Principal Investigator  
Source: University of Arizona Sarver Heart Center  
Amount: \$10,000
- 2012-present Effects of dietary turmeric on severe outcomes in diabetic stroke  
Effort: 5%  
Role: Co-Investigator  
Source: University of Arizona Sarver Heart Center  
Amount: \$10,000