

CURRICULUM VITAE

Kathleen H. McDonough, Ph.D.

ADDRESS: Department of Physiology
Louisiana State University Medical Center
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New Orleans, LA 70112
(504) 568-6171

PERSONAL DATA: Marital Status: Married, 3 Children

EDUCATION:

1965-1967 Webster College, St. Louis, MO
1967-1969 St. Louis University, St. Louis, MO., B.S.-cum laude
1972-1977 University of Missouri, Columbia, MO, Ph.D., Physiology
Thesis Title: Transmural Metabolic and Blood Flow
Changes in Porcine and Canine Hearts After Circumflex
Artery Occlusion. Douglas M. Griggs, Jr. MD - Advisor

TEACHING EXPERIENCE:

1969-1972 Assistant Instructor of Basic Science at De Paul Hospital School of Nursing,
St. Louis MO.
1977-1979 Assisted in Medical Physiology Laboratory, Hershey Medical School, Hershey,
PA
1980-present Lecture in Medical Physiology - Cardiovascular Unit; assist in laboratory
exercises.
Director for graduate course in Medical Physiology
Director of graduate course - Cardiovascular Physiology,
Lecture in Dental Physiology course (2006 – 2008)
Lecture in Allied Health Physiology Course
Lecture in Biological Systems Course – Cardiovascular Physiology
2004-present Director of MD/PhD Program
2005-present Director of Interdisciplinary Program
2005–present Course Director for Biological Systems A and B courses
2015 Director of MS in Biomedical Sciences Program

PROFESSIONAL EXPERIENCE:

1977-1979 Postdoctoral Fellow, The Milton S. Hershey Medical Center,
Pennsylvania State University, with James R. Neely
1979-1982 Research Assistant Professor, Department of Physiology, Louisiana State
University Medical Center, New Orleans, LA
1982-1986 Assistant Professor, Department of Physiology, LSU Medical Center, New
Orleans, LA

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1986-1994	Associate Professor, Department of Physiology, LSU Medical Center, New Orleans, LA
1994-present	Professor, Department of Physiology, LSU Health Sciences Center, New Orleans, LA
1/01-5/02	Interim Head, Department of Physiology, LSU Health Sciences Center, New Orleans, LA
2003-present	Associate Dean, School of Graduate Studies,
2004-present	Director of MD/PhD program, LSU Health Sciences Center, New Orleans,
2005-present	Director of Interdisciplinary Program – LSUHSC School of Graduate Studies
2008-present	Adjunct Professor of Pediatrics
8/2012-12/2014	Interim Head, Department of Genetics
2015-present	Director of MS in Biomedical Sciences Program LSUHSC, New Orleans

THESIS/DISSERTATIONS

Directed:

Lani W. Smith, 1986, Ph.D.

Paul Werchan, 1986, Ph.D.

Patrick Campbell, 1993, Ph.D.

Arif Hasan, 1996, Ph.D.

Brian Lipton, 1997, Ph.D.

Jitka Ismail, 1999, Ph.D.

Albert Swafford, 2003, PhD

Miguel Molina, 2008, MS

Served as member on Ph.D. Committee:

Van Ninh (2018), Allyson Schreiber (2017), Jacques Mayeux (2016), Samaah Sullivan (2015), Brendan Burn (2015); Jyothi Vijayaraghavan (2015), Adam Perricone (2014); Sophie Teng (2014); Travis Doggett (2014); Jessica Bradley (2013), Kristine Kurtz (2013), Sherin Hashem (2013), Marie Lee, (2012); Annie Whitaker (2011), Jesse Sulzer (2011), Paige Katz (2011); Jeffrey White (2009), Jason Schwartz (2009), Baher Fahmy (2009), Keisa Mathis Williams (2009), Sungmi Park (2008); Kevin Lord (2008); Sarah Hoffmann Lindsey (2007); Jarrod Knudson, 2005; Alissa Hicks, 2004; Julie Pontier, 2001; Matthew Edavettal, 1998; Wen Liu, 1997; Xiang Liu, 1997; Diane Madras, 1995; Todd Murray, 1994; Tracy Leigh LeGros, 1993; Jer Min Huang, 1992; Andrew Pellet, 1991; Dadin Fu, 1991; Yongwei (Eric) Chen 1990; Betty Dowty, 1990; Kari Blaho, 1989; Fahdel Alayarred, 1989; Douglas White, 1988, Britt Wilson, 1988; R. Wayne Barbee, 1986.

Served as member of M.S. Committee: Elia, El Hajj (2015), Brittni Baynes (2014), Venkat Subramaniam (2013),

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

American Physiological Society

American Heart Association

AWARDS/LECTURESHIPS/JOURNAL REVIEWS:

Lecture entitled "Myocardial Performance in Sepsis" to Department of Biology, University of North Carolina, Charlotte, North Carolina, Jan. 1989

Lecture entitled "Effects of Gram Negative Sepsis on Myocardial Metabolism and Function", Cardiovascular Sciences Day, University of Missouri, Columbia, MO, Nov. 1993

Lecture entitled "Effects of Shock and Trauma on Myocardial Function", East Carolina Medical Center, Department of Emergency Medicine, Charlotte, NC, August 1999.

Presentation at AAMC MD/PhD meeting, Session titled "Running a Small MD-PhD Program: Creative Solutions to Building Community" October, 2010

Presentation at Southern Association of Advisors of Health Professions (SAAHP) titled "MD/PhD: Is It Right for Me", May, 2015

Organizer of Symposium – "Understanding of Myocardial Dysfunction in Hyper Inflammatory States", Shock Society meetings, June 2000.

Program Chair for the 26th Annual Shock Society meetings, June 7-11, 2003 Phoenix, AZ

Editorial Board of the journal SHOCK, 1994 to present

Editorial Board of Circulatory Shock, 1993

Editorial Board of the American Journal of Physiology Heart, 2002-present

Ad hoc reviewer for The American Journal of Physiology; Metabolism; Journal of Applied Physiology; Alcohol; Clinical Science; Alcohol Clinical and Experimental Research; Free Radical Biology and Medicine; Circulation; Journal of Molecular and Cellular Physiology; American J of Respiratory and Critical Care Medicine; PLOS One and Life Sciences.

Ad hoc reviewer, Surgery, Anesthesia and Trauma, Study Section, National Institute of Health, June 1999.

Ad Hoc reviewer, NIH Special Emphasis Panel, 2002

Ad Hoc reviewer, NIH Neuroaids Study Section, March 2004, Nov. 2004

Ad Hoc reviewer, NIAAA Special Emphasis Panel, July, 2004

Ad Hoc reviewer, NIAAA Special Emphasis Panel, July, 2005

Ad Hoc reviewer, NIAAA AA-1, Feb. 2007

Ad Hoc reviewer, NIAAA-ZAA1 JJ (14) Special Emphasis Panel-Fellowship Applications Sept. 2007

Review Committee for American Heart Association, LA, Inc., 1995-1997

Review Committee for American Heart Association, Southern Consortium, 1998-2002 - Vice Chairman, 1999-2000; Chairman, 2000-2002

Off Site accreditation review committee for Southern Association of Colleges and Schools, November, 2007, 2008, 2010

On Site accreditation review committee for Southern Association of Colleges and Schools, March 2010

Southern Association of Schools and Colleges – Five Year Review Committee, June 2012; June 2013 – Coordinator of Cluster 3; June 2014 – Coordinator of Cluster 3.

Off Site accreditation review committee for Southern Association of Colleges and Schools, November, 2015

Pfizer Excellence Award, LSUHSC, 1996

Aesculapian Award for best teacher from the First Year Medical Students -1992-1993

Aesculapian Award for best teacher from the First Year Medical Students - spring, 1998, 1999, 2001

Dr. Allen A. Copping Excellence in Teaching Award, LSUHSC, 1998

Treasurer of Shock Society, 1996-1998

Shock Society, Program Chair for 2003, member of Shock Society Council 2000-2003

Inducted into Alpha Omega Alpha, National Medical Honor Society, 2004

Grant review for the South African Medical Research Council, October, 2013

Grant review for US Army Research and Materiel Command, July 2014

GRANTS RECEIVED:

American Heart Association, Louisiana Inc. - \$9,000; July 1, 1981 - June 30, 1982

Intramural Grant - LSU Medical Center - \$2,500; Sept. 1982 - March 1983

National Institute of Health - \$111,143, July 1, 1984 - June 30, 1987

American Heart Association, Louisiana Inc. - \$13,500; July 1, 1987 - June 30, 1988

American Heart Association, Louisiana Inc. - \$15,000; July 1, 1988 - June 30, 1989

Louisiana Board of Regents - \$110,726; July 1, 1988 - June 30, 1989

National Institute of Alcohol Abuse and Alcoholism - \$270,000 Jan. 1, 1989 - Dec. 31, 1991

As participant on a Center grant funded by the National Institute on Alcohol Abuse and Alcoholism; J.J. Spitzer, Director; Dec. 1, 1993 - Nov. 30, 2003

Principal Investigator of a Pilot Project, Dec. 1, 1993 - Nov. 30, 1995
Director of the Animal Core, 1993-1998
Co-Director of the Animal Core, 1998-2003

Department of Defense grant – ONR and LA Board of Regents - \$284,000; 1996-2000

Bridge grant – Medical School of LSUHSC, Oct. 2000 to September 2001 - \$15,000

Board of Regents – Graduate Fellows Training Grant: LEQSF 2000-05)-GF-11 - \$60,000

National Institute of Alcohol Abuse and Alcoholism - \$400,000, Sept. 2002 – August 2008.

COMMITTEE RESPONSIBILITIES

Admissions Committee, School of Medicine, 1995 – present

Curriculum Committee, Oversight Subcommittee, School of Medicine, 1998 – 2013

Professionalism Subcommittee, School of Medicine, 2010 - 2013

Faculty Assembly, 6 year term (1991-1997) in which 4 years served as Secretary/Treasurer; 3 year term (1998 – 2001) in which one year served as President.

Appointments and Promotions Committee, School of Medicine, 1999–2001, 2002-2003

Graduate Advisory Committee, School of Graduate Studies, 6 years; Departmental graduate committee, 10 years.

Task Force for LCME accreditation visit, 2002; Chair of the Faculty Committee, School of Medicine

Residence Hall Committee, LSUHSC, chair, 1996 – 2005

Pre-Clinical Sciences Promotions & Readmissions Committee 2005 - present

Member, Search Committee for Chancellor of LSUHSC, 2001

Member LCME Self Study Committees, 2009

Member Search Committee for Head, Department of Genetics, 2012-2014

Member Search Committee for Associate Dean, Community and Minority Health 2013

PUBLICATIONS:

1. Robert B. Dunn, Kathleen H. McDonough and Douglas M. Griggs, Jr. Cardioacceleration by atrial pacing and transmural metabolite levels in the canine left ventricle. Proc. Soc. Exp. Biol. Med. 158:230-234, 1978.

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2. James R. Neely, David Garber, Kathleen H. McDonough and Jane Idell-Wenger. Fatty acid metabolism in ischemic myocardium: A possible role in cell death. *Perspectives in Cardiovascular Research*, Vol. 3, Raven Press, 1979.
3. Robert B. Dunn, Kathleen H. McDonough and D.M. Griggs, Jr. High energy phosphate stores and lactate levels in different layers of the canine left ventricle during reactive hyperemia. *Circ. Res.* 44:688-695, 1979.
4. K.H. McDonough and J.J. Spitzer. Effects of hypoxia and reoxygenation on adult rat heart cell metabolism. *Proc. Soc. Exp. Biol. Med.* 173:519-526, 1983.
5. K.H. McDonough, R.B. Dunn and D.M. Griggs Jr. Transmural metabolic and blood flow changes in porcine and canine hearts after circumflex artery occlusion. *Am. J. Physiol.* 246:H601-H607, 1984.
6. K.H. McDonough, C.H. Lang and J.J. Spitzer. Depressed function of isolated hearts from hyperdynamic septic rats. *Circ. Shock* 12:241-251, 1984.
7. J.R. Neely, and K.H. McDonough. Factors that influence myocardial levels of long-chain acyl carnitine. In: *Myocardial Ischemia and Lipid Metabolism*. Plenum Press, New York, pp. 159-170, 1984.
8. K.H. McDonough, C.H. Lang and J.J. Spitzer. The effect of hyperdynamic sepsis on myocardial performance. *Circ. Shock* 15:247-259, 1985.
9. K.H. McDonough, C.H. Lang and J.J. Spitzer. The effect of cardiotropic agents on the myocardial dysfunction of hyperdynamic sepsis. *Circ. Shock* 17:1-19, 1985.
10. K.H. McDonough, R.E. Shepherd and J.J. Spitzer. Metabolic Changes in Isolated Myocytes Following Hypoxia. (*Pathobiology of Cardiovascular Injury*), edited by H.L. Stone and W.B. Weglicki. Martinus Nijhoff Publishing, Boston, pp. 164-174, 1985.
11. V. Chen, K.H. McDonough and J.J. Spitzer. Effects of insulin on glucose metabolism in isolated heart myocytes from adult rats. *Biochem. Biophys. Acta*, 398-404, 1985.
12. J.J. Spitzer, C.H. Lang, K.H. McDonough, A.H. Burns, A.J. Romanosky and R.E. Shepherd. Myocardial Metabolism and Function in Shock. *Circulatory Shock: Basic and Clinical Implications*. A volume of Research Topics in Physiology. Eds. H. Jensen and C.D. Barnes, Academic Press pp. 47-74, 1985.
13. K.H. McDonough, B. Brumfield, and C.H. Lang. *In Vitro* Myocardial Performance Following Lethal and Nonlethal Doses of Endotoxin. *Am. J. Physiol.* 250:H240-H246, 1986.
14. K.H. McDonough, J.J. Henry, C.H. Lang and J.J. Spitzer. Substrate Utilization and High Energy Phosphate Levels in Hearts from Hyperdynamic Septic Rats. *Circ. Shock* 18:161-170, 1986.

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15. L.W. Smith, S.L. Winberry, A.L. Barker and K.H. McDonough. Cardiac function and chronotropic sensitivity to β -adrenergic stimulation in sepsis. *Am. J. Physiol.* 251:H405-H412, 1986.
16. R.E. Shepherd, K.H. McDonough and A.H. Burns. Mechanism of cardiac dysfunction in hearts from endotoxin-treated rats. *Circ. Shock* 19:371-384, 1986.
17. R.E. Shepherd, C.H. Lang, B.A. Brumfield, N.W. Robie, K.R. DuSapin, and K.H. McDonough. Myocardial performance and adrenergic modulation of cyclic AMP following endotoxin administration. In *Microbiology and Immunopharmacology of Endotoxins*, 1986.
18. J.J. Spitzer, L.W. Smith, E.C. Burke and K.H. McDonough. Myocardial function in sepsis. Chapter in *Weiner Shockgesprache-First Vienna Shock Forum*, ed. Gunther Schlag, Alan R. Liss, Inc. pp. 573-590, 1987.
19. J.J. Spitzer. C. Dobrescu, C.H. Lang and K.H. McDonough. Myocardial substrate utilization in acute and chronic and in latent and severe diabetes. *Heart Metabolism in Health and Disease*. eds. N.S. Dhalla, P.K. Singal and R.E. Beamish; pp. 209-222, Martinus Nijhoff Publishing, 1987.
20. R.E. Shepherd, C.H. Lang and K.H. McDonough. Myocardial adrenergic responsiveness after lethal and nonlethal doses of endotoxin. *Am. J. Physiol.* 252:H410-H416, 1987.
21. R.E. Shepherd, A.H. Burns, P.M.C. DeBlieux, C.H. Lang and K.H. McDonough. Heart function and metabolism in shock during sepsis and endotoxemia. *Heart Metabolism in Health and Disease*. eds. N.S. Dhalla, P.K. Singal and R.E. Beamish; Martinus Nijhoff Publishing, 1987.
22. K.H. McDonough, V. Chen and J.J. Spitzer. Effect of altered thyroid status on *in vitro* myocardial performance. *Am. J. Physiol.* 252:H788-H795, 1987.
23. K.H. McDonough, R.W. Barbee, C. Dobrescu, C.H. Lang and J.J. Spitzer. Enhanced myocardial depression in diabetic rats during *E. coli* sepsis. *Am. J. Physiol.* 253:H276-H282, 1987.
24. P.M. Werchan, K.H. McDonough. The right ventricular working heart preparation. *Proc. Soc. Exp. Med. Biol.* 185:339-346, 1987.
25. K.H. McDonough, J.J. Henry and J.J. Spitzer. Effects of oxygen radicals on substrate oxidation by cardiac myocytes. *Biochim. Biophys. Acta* 926:127-131, 1987.
26. K.H. McDonough. Calcium uptake by sarcoplasmic reticulum isolated from hearts of septic rats. *Circ. Shock* 25:291-297, 1988.
27. K.H. McDonough and J.R. Neely. Inhibition of myocardial lipase by palmityl CoA. *J. Mol. Cell. Cardiol.* 20(Suppl. II), 1988.

28. L.W. Smith and K.H. McDonough. Inotropic sensitivity to Beta-adrenergic stimulation in early sepsis. *Am. J. Physiol.* 255:H600-H703, 1988.
29. P.M. Werchan, W.R. Summer, A.M. Gerdes and K.H. McDonough. Right ventricular performance after monocrotaline induced pulmonary hypertension. *Am. J. Physiol.* 256:H1328-H1336, 1989.
30. P.M.C. DeBlieux, K.H. McDonough, R.W. Barbee and R.E. Shepherd. Exercise training attenuates the myocardial dysfunction induced by endotoxin. *J. Appl. Physiol.* 66:2805-2810, 1989.
31. L.A. Barker, S.L. Winberry, L.W. Smith and K.H. McDonough. Supersensitivity and changes in the active population of beta-adrenoceptors in rat right atria in early sepsis. *J. Pharmacol. Exptl. Ther.* 252:675-682, 1990.
32. K.H. McDonough and J.J. Spitzer. Alterations in myocardial function in sepsis. pp. 27-39, *Schocklunge-ARDS*, editor - G.H. Englehardt. Walter de Gruyter, Berlin, 1990.
33. K.H. McDonough, E.C. Burke and L.W. Smith. *In Vitro* Function in Early Sepsis. *J. Med.* 21:27-49, 1990.
35. R.J. Ascutto, N.T. Ross-Ascutto, D. Ramage and K.H. McDonough. Importance of fatty acid oxidation in the neonatal pig heart with hypoxia and reoxygenation. *J. Devel. Physiol.* 14:291-294, 1990.
36. K.H. McDonough and J.J. Henry. Chronic Alcohol Consumption Enhances Sepsis-Induced Cardiac Dysfunction. *Am. J. Physiol.* 260:H1857-H1863, 1991.
37. N.T. Ross-Ascutto, R.J. Ascutto, D. Ramage and K.H. McDonough. The Effects of Milrinone in the Neonatal Pig Heart: *Cardiovasc. Drug Therapy* 5(6):1011-1020, 1992.
38. A.E. Muniz and K.H. McDonough. Function of Isolated Hearts from Septic, Saline-Infused and Septic, Alcohol-Infused Rats. *Alcohol Clin. Exp. Res.* 15(6):1067-1071, 1991.
39. K.H. McDonough. Myocardial Performance in Sepsis *Critical Care Report* 2:164-170, 1992.
40. R.J. Ascutto, N.T. Ross-Ascutto, D. Ramage, K.H. McDonough and P.J. Kadowitz. Acetylcholine-induced coronary vasoconstriction and negative inotropy in the neonatal pig heart. *Ped. Res.* 32:336-342, 1992.
41. K.H. McDonough and K.M. Causey. Myocardial responses to isoproterenol are altered by chronic alcoholism and infection. *Am. J. Physiol.* 264:H357-H363, 1993.

42. P.M.C. DeBlieux, R.W. Barbee, K.H. McDonough and R.E. Shepherd. Exercise Training Improves Cardiac Function in Diabetic Rats. *Proc. Soc. Exp. Biol. Med.* 203:209-213, 1993.
43. Greenberg, S.S., J. Xie, Y. Wang, T. Malinski, W.R. Summer and K.H. McDonough. *Escherichia coli*-induced inhibition of endothelium-dependent relaxation and gene expression and release of nitric oxide is attenuated by chronic alcohol ingestion. *Alcohol* 11:53-60, 1994.
44. McDonough, K.H. and K.M. Causey. Effects of sepsis on recovery of the heart from 50 min ischemia. *Shock* 1:432-437, 1994.
45. McDonough, K.H. and K.M. Causey. Sepsis protects the heart of alcoholic rats from ischemia-reperfusion injury. *Alcohol: Clin. Exp. Res.* 18:1423-1429, 1994.
46. McDonough, K.H., M.E. Giaimo and H.I. Miller. Effects of endotoxin on the guinea pig heart response to ischemia reperfusion injury. *Shock* 4:139-142, 1995.
47. McDonough, K.H. 1-Week withdrawal from 8 weeks alcohol consumption protects the heart from sepsis-induced dysfunction. *Alcohol: Clin. Exp. Res.* 19:834-839, 1995.
48. Alam, S.Q., S.J. Mannino, B.S. Alam and K.H. McDonough. Effect of essential fatty acid deficiency on forskolin binding sites, adenylate cyclase and cyclic AMP-dependent protein kinase activity, the levels of G proteins and ventricular function in rat heart. *J. Mol. Cell. Cardiol.* 27:1593-1604, 1995.
49. Ascuitto, R.J., N.T. Ross-Ascuitto, D.W. Kydon, A.E. Waddell and K.H. McDonough. Mechanical and metabolic characterization of ischemic contracture in the neonatal pig heart. *Ped. Res.* 38:228-236, 1995.
50. Hasan, A. and K.H. McDonough. Effects of short term ischemia and reperfusion on coronary vascular reactivity and myocardial function. *Life Sci.* 57:2171-2185, 1995.
51. Deaciuc, I.V., J.M. Alapat, K.H. McDonough and N. D'Souza. Interleukin-6 and tumor necrosis factor- α clearance and metabolism *in vivo* and by the isolated, perfused liver in the rat: effect of acute alcohol administration. *Alcohol: Clin. Exp. Res.* 20:293-301, 1996.
52. Hasan, A. and K.H. McDonough. The effects of *Escherichia coli* sepsis and short term ischemia on coronary vascular reactivity and myocardial function. *Shock* 8:305-310, 1997.
53. McDonough, K.H. Chronic alcohol consumption causes accelerated myocardial preconditioning to ischemia reperfusion injury. *Alcohol: Clin. Exp. Res.* 21:869-873, 1997.
54. Lang, C.H., J. Fan, B.P. Lipton, B.J. Potter and K.H. McDonough. Modulation of the Insulin-Like Growth Factor System by Chronic Alcohol Feeding. *Alcohol: Clin. Exp. Res.* 22: 823-829, 1998.
55. Ismail, J. and K.H. McDonough. Role of coronary flow and adenosine in the postischemic recovery of septic rat hearts. *Am. J. Physiol.* 275: H8-H14, 1998.

56. McDonough, K.H., T. Smith, K. Patel and M. Quinn. Myocardial dysfunction in the septic rat heart: role of nitric oxide. *Shock* 10:371-376, 1998.
57. Penn, D., L. Zhang, P.J. Bobrowski, M. Quinn, X. Liu and K.H. McDonough. Carnitine deprivation adversely affects cardiovascular response to bacterial endotoxin (LPS) in the anesthetized neonatal pig. *Shock* 10:377-382, 1998.
58. Chamulitrat, W., H. I. Miller and K.H. McDonough. Priming of Peyer's patch lymphoid cells by hemorrhagic shock and resuscitation to produce superoxide radical. *Shock* 11:136-142, 1999.
59. McDonough, K.H., M. Giaimo, M. Quinn and H.I. Miller. Intrinsic myocardial function in hemorrhagic shock. *Shock* 11:205-210, 1999.
60. Penn, D., L. Zhang, P.J. Bobrowski, M. Quinn, and K.H. McDonough. Carnitine deprivation adversely effects cardiac performance in the lipopolysaccharide and hypoxia/reoxygenation-stressed piglet heart. *Shock* 11:120-126, 1999.
61. McDonough, K.H. The role of alcohol in the oxidant antioxidant balance in heart. *Frontiers Bioscience* 4:d601-606, 1999.
62. McDonough, K.H. and A.J. Spanier. Dexamethasone blocks sepsis-induced protection of the heart from ischemia reperfusion injury. *PSEBM* 223:82-87, 2000.
63. McDonough, K.H., M.E. Giaimo, M. Quinn and H.I. Miller. Effects of blood resuscitation versus dextran resuscitation after hemorrhage on intrinsic myocardial function. *J Trauma Injury, Infection, Crit Care* 48:1122-1127, 2000.
64. Campbell, P.H., L.A. Barker and K.H. McDonough. The effect of acute ethanol exposure on the chronotropic and inotropic function of the rat right atrium. *J Pharm Pharmacol* 52:1001-1010, 2000.
65. Lipton B.P., A.P. Bautista, J.B. Delcarpio and K.H. McDonough. Effects of endotoxin on neutrophil-mediated I/R injury in isolated perfused rat hearts. *Am J Physiol* 280:H802-H811, 2001
66. Ismail, J.A. and K.H. McDonough. The role of K^+_{ATP} channels in the control of pre- and post-ischemic left ventricular developed pressure in septic rat hearts. *Can J Physiol Pharmacol*, 79:213-219, 2001.
67. Gentry-Nielsen, M.J., LC Preheim, K.N. Lyman, K.H. McDonough and B.J. Potter. Use of rat models to mimic alterations in iron homeostasis during human alcohol abuse and cirrhosis. *Alcohol* 23:71-81, 2001.
68. Lipton, B.P., J.B. Delcarpio, and K.H. McDonough. Effects of endotoxin on neutrophil-mediated ischemia/reperfusion injury in the rat heart *in vivo*. *Proc Soc Exp Biol Med* 226:320-327, 2001

69. McDonough, K.H., M. Giaimo, and H.I. Miller. Low dose alcohol alters the cardiovascular, metabolic and respiratory compensation for severe blood loss. *J Trauma* 53:541-548, 2002.
70. McDonough, K.H. Antioxidant Nutrients and Environmental Health – Antioxidant nutrients and alcohol. Special Issue of *Toxicology, Section of Environmental and Nutritional Interactions* 189 (1-2):89-97, 2003
71. Swafford, Jr. A.N., D. Bidros, T.M. Truxillo, M.E. Giaimo H.I. Miller and K.H. McDonough. Ethanol intoxication and lactated ringer's resuscitation prolong hemorrhage induced lactic acidosis. *Shock* 20:237-244, 2003.
72. Azuero, R, C Debata, M Quinn, K McDonough and D. Penn. Dobutamine alters carnitine metabolism in the neonatal piglet heart. *Canadian J Physiol Pharmacol* 82: 493-501, 2004
73. McDonough, K. H. and J. I. Virag. Sepsis induced myocardial dysfunction and myocardial protection from ischemia/reperfusion injury. *Frontiers in Bioscience*, 1:11-32, 2006
74. Davis-Jackson R.M., H Correa, R Horswell, H Sadowska-Krowicka, K McDonough, C Debata, R Gardner and D. Penn. Antithrombin III (AT) and recombinant tissue plasminogen activator (R-TPA) used singly and in combination versus supportive care for treatment of endotoxin-induced disseminated intravascular coagulation (DIC) in the neonatal pig. *Thrombosis Journal* 4:7 2006.
75. Molina MF, A Whitaker, Molina PE, and McDonough KH: Alcohol does not modulate the augmented acetylcholine-induced vasodilatory response in hemorrhaged rodents. *Shock* 32:601-607, 2009.
76. McDonough KH, Swafford A, Giaimo M, and Miller H: Mode of ethanol administration influences the severity of hemorrhage induced lactic acidemia in conscious guinea pigs. *J. Cardiovascular Pharmacology* 56:234-240, 2010.
77. McDonough K. H., C. Doumen, M. Giaimo and O. Prakash. Effects of the HIV-1 protein Tat on myocardial function and response to endotoxin. *Cardiovascular Toxicology* 10:250-258, 2010.
78. English R, Edwards S, Armstrong M, McDonough K, Molina P. Alcohol Use Disorder: An Interprofessional Case-Based Exercise. MedEdPORTAL; Available from: www.mededportal.org/publication/9916 2014.
79. Polhemus, D.J., Gao J. Scarborough A.L., Trivedi R., McDonough K.H., Goodchild T.T., Smart F., Kapusta D.R., and Lefer D.L. Radiofrequency renal denervation protects the ischemic heart via inhibition of GRK2 and increased nitric oxide signaling. *Circ. Res.* 119(3):470-80 2016