

Curriculum Vitae of Kevin Kane McCully

Education

Western Michigan University, 1975, B.S. Major in Biology, Minor in Math
University of Michigan, 1985, Ph.D. in Physiology
Post-doctoral fellow, Dept. of Biochemistry/Biophysics, University of Pennsylvania, 1985-1989

Positions

Research Associate, Dept of Biochemistry/Biophysics, University of Pennsylvania, 1990-91
Research Assistant Professor of Medicine, Division of Geriatric Medicine, Allegheny University of the Health Sciences, Philadelphia, PA 6/1990 to 6/30/1999
Associate Professor, Dept of Exercise Science, University of Georgia, Athens, GA. 8/1999 to 5/2004
Professor, Dept of Kinesiology, University of Georgia, Athens, GA 2004 to Present
Faculty of Gerontology Center, University of Georgia, Athens, GA 1999 to 2018
Faculty of the Biomedical Health Sciences Institute, 2002 to present
Adjunct Professor, Dept. Foods & Nutrition, University of Georgia, 2012 to present
Affiliated Member, Institute of Human Development and Disability, University of Georgia, 2013 to present
Clinical Research Scientist: Courtesy Appointment, Shepherd Center, Atlanta GA, 2013 to present
President and Chief Science Officer, Infrared Rx, Inc (2016-present)

Honors and Awards

W.M.U. Gary Scholar 1972-1975
W.M.U. Scholar Athlete of the Year (Swimming), 1975
Waldo Sangren Scholar, 1975
U.M. Graduate Student Representative, Physiology Dept., 1980
Ninth Annual Peter A. Rechnitzer Lecturer, University of Western Ontario, 2003
Henry J. Montoye Scholar Award, South East American College of Sports Medicine, 2009
Excellence in Undergraduate Research Mentoring, CURO, University of Georgia, 2017
Innovation Award: Mito Test. Presented to Infrared Rx, Inc by Georgia Bio. June 25, 2020
Robert M. Herndon Award. The 2019 outstanding article in the International Journal of MS Research.
Presented to authors of paper: Effects of Treadmill Training on Muscle Oxidative Capacity and Endurance in People with Multiple Sclerosis with Significant Walking Limitations. August, 2020
2021 Lothar Tresp Outstanding Honors Professor Award. Honors Program, University of Georgia.

Professional Associations

American Association of University Professors, Member
American College of Sports Medicine, Fellow
American Congress of Rehabilitation Medicine, Member
American Physiological Society, Member
South East Chapter, American College of Sports Medicine, President (2013-2015), Chapter Representative to ACSM (2019-2021)
National Academy of Kinesiology, Fellow #480

Committees

Biosafety Committee, Allegheny University of the Health Sciences, 1992-1998
Committee for the Protection of Human Subjects, AUHS, 1997-1998
Chair, ACSM Special Interest Group on Aging (1999-2001)
Co-Chair, ACSM Special Interest Group on Noninvasive Technologies (2004-2008)
SEACSM Executive Board Member (2006-2007, 2014-2016, 2019-2021)
College of Education Research Advisory Committee (2001-2010)
University Promotion and Tenure Committee (2005-2007, 2018-2019)
Bio-Imaging Research Center (BIRC) Chair of Research Advisory Committee (2006-present)
University Graduate Faculty Appointment & Reappointment Committee (2008-2010)

University of Georgia-Medical College of Georgia Partnership Search Committee for Athens medical school campus Chairperson of basic science department (2008-2009)
University of Georgia IRB (2010-2018) Chair of the Behavioral Committee (2017-2018)
University of Georgia Small Animal MRI/MRS Instrument operating committee (2010-present)
Foods & Nutrition Department search committee for chairperson position (2010-2011)
University of Georgia First Year Odyssey Program Review Committee (2011)
University of Georgia CURO Summer Fellowship Review Committee (2011)
University of Georgia Obesity Initiative, Chair of the “Functional fitness, Disability, and Environment” task force. (2011-2017)
Foods & Nutrition Dept, search committee for Assistant Professor (2012-2013)
Dept of Health Policy, search committee for Associate and Full Professors (2012-2013)
University of Georgia, College of Education, Promotion and Tenure Committee (2015-2016)
University of Georgia, Health and Clinical Sciences University Review Committee. (2017-2020)
University of Georgia, Pre-Health Advisory Board (2018-2020)
Chair of PRAC review committee for Institute of Health Development and Disability (2020-2021)
Faculty Advisory Council for UGA Innovation Gateway (2020-2021)
Chair of PRAC review committee for the Department of Kinesiology, Recreation, and Sport Studies at the University of Tennessee, Knoxville. (2021)

Peer Review

Assist. Editor of J. Gerontology, Biological Sciences (1996-2000), Assistant Editor for Clinical Science, Deputy Editor, Dynamic Medicine, Regular paper reviewer for J. Appl. Physiol., Am. J. Physiol, J. Physiol. London., Muscle Nerve, Med Sci Sports Ex., British J. Sports Medicine, Eur J. Appl. Physiol., J. Biomed Optics

Ad hoc member NIH special emphasis panel on Chronic Fatigue Syndrome (1992-2008)
Ad hoc member NIH Geriatric and Rehabilitation Medicine study section (2002-2003)
Ad hoc member NIH Clinical Integrative Cardiovascular Sciences study section (2006, 8-11)
Ad hoc reviewer for NIH P01 awards, 5 proposals (2008-10)
Served on Military Clinical & Integrative Cardiovascular Science (CICS) Study Section (2006)
Ad Hoc Grant reviewer for Canadian Research Council (2005-9)
Ad Hoc Grant reviewer for American Federation for Aging Research (including 2010)
Singapore National Research Council (2006)
Ad Hoc Grant reviewer for Australian Heart Association (2004)
Ad Hoc Grant reviewer for VA Merit Review program
Ad Hoc Grant reviewer for Louisiana Board of Regents Pilot grant program
Ad Hoc Grant reviewer for Phillip Morris Research grant program (2001, 2004, 2007)
Ad Hoc Grant reviewer for South African Sport, Physical Activity and Health Programme (2004)
Ad Hoc Grant reviewer for University of Washington pilot grant program (2006, 2008)
Ad hoc member NIH MRS Study section (2016)
Ad hoc member NIH Common Core study section (2016)
Ad hoc member VA Early Career Awards (2016)
Ad hoc member of the ME/CFS NIH U54 grants study section (2017)
Ad hoc member of the CIDO NIH grants study section (2017)
IAR Reviewer for CSR Anonymization Study (2018)
Ad hoc member of the Special Emphasis Panels for NIH grants study sections (2018-2020)
Scientific reviewer for PRMIS (congressionally funding military research) (2019)
Grant reviewer for ACSM student grants. (2020-2021)

Community Service

Board of Directors: Athens Inclusive Recreation and Sports, 2013-2020

Primary Sponsor: NorthEast Georgia Transition Team expo, 2013-2015.

Current Research Support

Project title: **Preventing Vascular Complications in Type 1 Diabetes: Muscle Metabolic Monitoring.**

Percent effort (time commitment) 10%. Role: P.I.

STTR, NIH NIDDK. 2R42DK112497-02

Period of performance: 9/21/2019- 8/31/2021.

Level of funding: \$1,347,211

Brief description of project goals: Specific Aim 1: we will develop an automated analysis platform for NIRS-derived measures of skeletal muscle mitochondrial capacity. Specific Aim 2: we will define the value proposition of NIRS-based microvascular and mitochondrial assessment.

Project title: **Comparative Effectiveness of an Exercise Intervention Delivered via Telerehabilitation and Conventional Mode of Delivery for people with MS**

Percent effort (time commitment) 15%. Role: Co.I.

PCORI, NIH.

Period of performance: 2/1/2018- 1/31/2022.

Level of funding (UGA subcontract only): \$251,946

Brief description of project goals: Specific Aim 1: we will compare outcomes between a telehealth exercise program and a center based exercise program for people with multiple sclerosis. Specific Aim 2: we compare patient satisfaction and program selection between telehealth and center based exercise programs. Specific Aim 3: we will inform patient and clinical programs of the results of our study to guide future treatment of MS.

Project title: **UGA-Infrared RX-GRA PhIIA**

Percent effort (time commitment) 5%. Role: P.I.

GEORGIA RESEARCH ALLIANCE

Period of performance: 8/14/2020- 8/13/2021.

Level of funding: \$50,000

Brief description of project goals: Aim 1: Develop hardware specifications for equipment needed for producing a device that can measure muscle mitochondrial capacity. Aim 2: Design hardware device for performing muscle mitochondrial capacity test. Aim 3: Explore manufacturing options and regulatory pathways needed to produce hardware for performing mitochondrial capacity test.

Teaching Experience

1977-1980 Conference leader and lab instructor, Physiology 102 U.M.

1979-1984 Lab instructor, cardiovascular labs for Physiol. 500 and 502 (Dental & Medical students). U.M.

1980-1983 Lab instructor, blood pressure labs for Physiol. 502 (Dental). U.M.

1982-1983 Lecturer, exercise physiology section for the Program in Physical Therapy. U.M.

1984-1985 Lecturer for seminar course on skeletal muscle injury, Physiol. 807. U.M.

1986 Lecturer for Veterinary Student Exercise Physiology Course. UPenn.

1987 Lecturer NMR section of Biochemistry class for first year medical students. UPenn.

1988 Lecturer Nutrition Research Methods at the Wistar Institute (Philadelphia). Topic: Phosphorus magnetic resonance spectroscopy. UPenn.

1988-89 Laboratory session 31-P MRS equipment to study muscle metabolism. Summer Science Academy (High school students). UPenn.
1988 Lecture NMR and sports medicine. Haverford High School.
1988-90 NMR laboratory sessions for medical students. UPenn.
1991-1994 Lecture 'The Muscular System' Gerontology Course, Freshman medical students, MCPHU.
1992 Lecture to graduate students. 'Noninvasive measurements of metabolism and blood flow'. Univ. Bologna, Bologna Italy.
1998 Problem Based Learning Workshop. Two day workshop to learn fundamentals of PBL
1998 Lectures to MCPHU Physical Therapy students on muscle function and metabolism
1998 Taught 1/2 of neuro unit to first year MCPHU medical students in PBL program

University of Georgia

Previous

FRSH1020 Research Using Human Subjects in Exercise Physiology, 2002
FRSH1020 Drugs in Sports, 2004, 2006
FYOS1020 Drugs and Sports, 2011
EXRS4690/6690 Exercise Physiology II, 2002, 2003, 2005-2014
EXRS7140 Exercise Biochemistry, 2001
EXRS8310 Laboratory Experiences in Exercise Physiology, 2004, 2006
EXRS8410 Neuromuscular Physiology, 2001, 2009, 2011

Recent

EXRS8420 Oxygen Transport, 1999, 2002, 2006, 2010, 2012, 2015, 2020
EXRS3700 Exercise Physiology, 2005, 2007, 2013, 2015-19
EXRS4630/6630 Exercise Physiology I, 1999-2004, 2006-2008, 2010, 2011, 2014-20
KINS5140 Introduction to Wellness for People with Disabilities, spring and fall: 2012-2013, 2015-20
FYOS1020 Disability awareness, fall semester: 2011-20

Advising graduate students

Doctoral dissertations (13 completed, 2 in progress)
Masters theses (13 completed, 1 in progress)
Undergraduate theses (10 completed)
External Reviewer (McMaster University, CA 2010)
External Reviewer (Edith Cowan University, AU 2017)

Kevin Kane McCully, Ph.D

List of Publications

<https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/40174304/?sort=date&direction=ascending>

https://scholar.google.com/citations?hl=en&user=BMkW0e0AAAAJ&view_op=list_works

- **Web of Science ResearcherID** [P-5141-2015](#)
- **ORCID** [0000-0001-9850-487X](#)

Patents

McCully, K.K., T.E. Ryan. Systems and Methods for measuring mitochondrial capacity. US Patent #9,706,959. Submitted March 11, 2013, granted June 29, 2017.

McCully, K.K., T.E. Ryan. Systems and Methods for measuring mitochondrial capacity. US Patent #10,542,932. Submitted June 7, 2017, Issued January 28, 2020.

McCully, K.K. Systems and Methods for Assessing Respiratory Function. US Provisional Application. Serial No.: 63/003,707; Filing Date: April 1, 2020

Papers

1. Faulkner, J.A., D.R. Claflin, **K.K. McCully**, D.A. Jones. Contractile properties of intact and cut skeletal muscle fibers. *Am. J. Physiol.* 243: C66-C73, 1982.
2. Faulkner, J.A., **K.K. McCully**, D.S. Carlson, J.A. McNamara Jr. Contractile properties of the muscles of mastication of rhesus monkeys (*Macaca Mulatta*) following increase in muscle length. *Archs. Oral Biol.* 27: 841-845, 1982.
3. Faulkner, J.A., J.M. Markely, Jr., **K.K. McCully**, C.R. Watters, T.P. White. Characteristics of cat skeletal muscles grafted with intact nerves or with anastomosed nerves. *Exper. Neurol.* 80: 682-696, 1983.
4. **McCully, K.K.** J.A. Faulkner. Length-tension relationship of mammalian diaphragm muscles. *J. Appl. Physiol.* 54:1681-1686, 1983.
5. **McCully, K.K.** J.A. Faulkner. Injury to skeletal muscle fibers of mice following lengthening contractions. *J. Appl. Physiol.* 59: 119-126, 1985.
6. Chance, B., J.S. Leigh, Jr., J. Kent, **K. McCully**, S. Nioka, B. J. Clark, J. M. Maris, T. Graham. Multiple controls of oxidative metabolism of living tissues as studied by 31-P MRS. *Proc. Nat'l. Acad. Sci. USA.* 83:9458-9462, 1986.
7. **McCully, K.K.** J.A. Faulkner. Characteristics of lengthening contractions that result in injury to skeletal muscle. *J. Appl. Physiol.* 61: 293-299, 1986.
8. Park, J.H., R.L. Brown, C. R. Park, **K. McCully**, M. Cohn, B. Chance. Functional pools of oxidative and glycolytic fibers in human muscle during exercise. *Proc. Nat'l. Acad. Sci.* 84: 8976-8980, 1987.
9. Chance, B., S. Nioka, J. Kent, **K. McCully**, M. Fountain, R. Greenfeld, G. Holtom. Time resolved spectroscopy of hemoglobin and myoglobin in resting and ischemic muscle. *Anal. Biochem.* 174: 698-707, 1988.
10. Clark, B.J., M.A. Acker, **K.K. McCully**, H.V. Subramanian, B. Hammond, S. Salmons, B. Chance, L. Stephenson. In vivo 31-P NMR spectroscopy of chronically stimulated canine skeletal muscle. *Am. J. Physiol.* 254: C258-C266, 1988.
11. **McCully, K.K.**, Z. Argov, B.P. Boden, R.L. Brown, W.J. Bank, B. Chance. Detection of muscle injury in humans with 31-P magnetic resonance spectroscopy. *Muscle and Nerve.* 11: 212-216, 1988.
12. Wilson, J.R., **K.K. McCully**, D.M. Mancini, B.P. Boden, B. Chance. Relationship of muscle fatigue to pH in man: a 31-phosphorus nuclear magnetic resonance study. *J. Appl. Physiol.* 64: 2333-2339, 1988.

13. **McCully, K.K.**, B.P. Boden, M. Tuchler, M. Fountain, B. Chance. The wrist flexor muscles of elite rowers measured with magnetic resonance spectroscopy. *J. Appl. Physiol.* 67: 926-932, 1989.
14. Roth, Z., Z. Argov, J. Maris, **K. McCully**, B. Chance. The effect of female sex hormones on steady state phosphate compound levels in exercising rat skeletal muscle as studied with ³¹P NMR. *J. Appl. Physiol.* 67: 2060-2065, 1989.
15. Wilson, J.R., D.M. Mancini, **K.K. McCully**, N. Ferrato, V. Lanoce, B. Chance. Noninvasive detection of skeletal muscle underperfusion with near-infrared spectroscopy in patients with heart failure. *Circulation.* 80: 1668-1703, 1989.
16. Kent, J., **K. McCully**, B. Chance. Metabolic effects of training in man: a ³¹P MRS study. *J. Appl. Physiol.* 69: 1165-1170, 1990.
17. **McCully, K.**, Z. Argov, U. Giger, B. Valentine, B. Cooper, B. Chance, W. Bank. Canine muscular dystrophy studied with phosphorus magnetic resonance spectroscopy. *Muscle Nerve.* 14: 1091-1098, 1991.
18. **McCully, K.**, M. Forcia, L. Hack, E. Donlon, R. Wheatly, C. Otis, T. Goldberg, B. Chance. Muscle metabolism during exercise in elderly subjects using ³¹P magnetic resonance spectroscopy (MRS). *Can. J. Physiol. Pharm.* 69: 576-580, 1991.
19. Vandenborne, K., **K. McCully**, H. Kakihira, M. Prammer, L. Bolinger, J. Detre, K. DeMeirleir, G. Walter, B. Chance, J. Leigh. Metabolic heterogeneity in human calf muscle during maximal exercise. *Proc. Nat'l. Acad. Sci. USA.* 88: 5714-5718, 1991.
20. Lai, K., M. Jaweed, R. Seestead, G. Herbison, J. Ditunno, **K. McCully**, B. Chance. Changes in nerve conduction and Pi/PCr ratio during denervation-reinnervation of the gastroc/soleus muscles of rats. *Arch. Phys. Med. Rehab.* 73: 1155-1159, 1992.
21. Mancini, D.M., G. Walter, N. Reichek, R. Lenkinski, **K.K. McCully**, J.L. Mullen, J. Wilson. Contribution of skeletal muscle atrophy to exercise intolerance and altered muscle metabolism in heart failure. *Cir.* 85:1364-1373, 1992.
22. **McCully, K.**, K. Vandenborne, K. De Meirleir, J. Posner, J.S. Leigh Jr. Muscle metabolism in track athletes using ³¹P magnetic resonance spectroscopy. *Can. J. Physiol. Pharm.* 70: 1353-1359, 1992.
23. Barbiroli, B., **K.K. McCully**, S. Iotti, R. Lodi, P. Zaniol, B. Chance. Further impairments of muscle phosphate kinetics by lengthening exercise in BMD/DMD carriers. *J. Neurol. Sci.* 119:65-73, 1993.
24. **McCully, K.**, R. Fielding, W. Evans, J. Leigh, J. Posner. Correlations between in vivo and in vitro metabolism in young and old human skeletal muscles. *J. Appl. Physiol.* 75:813-819, 1993.
25. Shaw, C., K. Gorman, **K. McCully**, J. Posner. Comparison of different bicycle ergometer protocols in elderly males. *J. Cardiopul. Rehab.* 13: 126-133, 1993.
26. **McCully, K.**, C. Halber, J.D. Posner. Exercise-induced changes in oxygen saturation in the calf muscles of elderly subjects with peripheral vascular disease. *J. Geron. Biol.Sci.* 49: B128-B134, 1994.
27. **McCully, K.K.**, S. Iotti, K. Kendrick, Z. Wang, J.D. Posner, J.S. Leigh, Jr., B. Chance. Simultaneous in vivo measurements of HbO₂ saturation and PCr kinetics after exercise in normal humans. *J. Appl. Physiol.* 77: 5-10, 1994.
28. Posner, J. D., **K.K. McCully**, L. Landsberg, L.P. Sands, P. Tycenski, M. Hoffman, and K. Wetterholt. Physical determinants of independence in mature women. *Arch. Phys. Med. Rehab.* 76: 373-380, 1995.
29. Schott, J., **K. McCully**, O.M. Rutherford. Role of metabolites in strength training: II short versus long isometric contractions. *Eur. J. Appl. Physiol.* 71:332-336, 1995.
30. Shaw, C., **K.K. McCully**, J.D. Posner. Injuries during the one repetition maximum assessment in the elderly. *J. Cardiopul. Rehabil.* 15:283-287, 1995.
31. **McCully, K.K.**, B.H. Natelson, S. Iotti, S. Sisto, J.S. Leigh, Jr. Reduced oxidative muscle metabolism in chronic fatigue syndrome. *Muscle Nerve* 19:621-625, 1996.

32. Shaw, C., **K.K. McCully**, L. Landsberg, J.D. Posner. The effect of a submaximal orientation on cardiopulmonary cycle ergometer stress test results in older adults. *J. Cardiopul. Rehabil.* 16:93-99, 1996.
33. Hofmann, M.T., D.N. Nahass, M.N. Felipe, C. Glew, M.G. Suarez, L.A. Landsberg, **K.K. McCully**, J.D. Posner. The effect of multi-disciplinary geriatric assessment team on length of hospital stay and utilization of hospital resources. *Annals Long-Term Care* 5:444-449, 1997.
34. **McCully, K.K.**, L. Landsberg, M. Suarez, J.D. Posner. Identification of peripheral vascular disease in elderly subjects using optical spectroscopy. *J. Gerontology Biol. Sci.* 52A:B159-B165, 1997.
35. Walter, G, K. Vandenborne, **K. McCully**, J. Leigh. Noninvasive measurement of oxidative capacity in a single muscle. *Am. J. Physiol. Cell.* 272:C525-C534, 1997.
36. Mangione, K.K., **K. McCully**, A. Gloviak, I. Lefebvre, M. Hofmann, R. Craik. The effects of high intensity and low intensity cycle ergometry in older adults with knee osteoarthritis. *J. Gerontology Med. Sci.* 54A: M184-M190, 1999.
37. **McCully, K.K.**, C. Leiper, T. Sanders, E. Griffin. Gait and peripheral vascular disease. *J. Gerontology Biol. Sci.* 54:B291-B294, 1999.
38. **McCully, K.**, U. Giger, B. Chance. In vivo determination of altered hemoglobin saturation in dogs with M-type phosphofructokinase deficiency. *Muscle Nerve* 22:621-627, 1999.
39. **McCully, K.**, B. Natelson. Impaired oxygen delivery in chronic fatigue syndrome. *Clinical Science* 97: 603-608, 1999.
40. Miura H, **K., McCully**, S. Nioka, B Chance. Validity for measuring skeletal muscle oxygen status using functional near infrared imaging machine. *Jpn J Phys Fitness Sports Med.* 49:211-216, 2000.
41. Miura, H., B. Chance, **K. McCully**. Relationship between heterogeneity for oxygen status and individual differences in physical fitness. *Ono Sports Science.* 8:67-76, 2000.
42. Miura H, **K., McCully**, L. Hong, S. Nioka, B Chance. Regional differences of muscle oxygen saturation and blood volume determine by near infrared imaging device. *Japanese J. Physiology.* 51:599-606, 2001.
43. **McCully, K.**, B. Authier, J. Olive, B. J. Clark III. Muscle fatigue: the role of metabolism. *Canadian J. Exercise Physiology.* 27:70-82, 2002.
44. Olive, J.L., A.E. DeVan, **K.K. McCully**. The effects of aging and activity on muscle blood flow. *Dynamic Med.* 1:2, 2002.
45. Olive, J., **K. McCully**, G. Dudley. Abnormal blood flow in incomplete spinal cord injury patients. *Spinal Cord Spinal Cord.* 40:640-646, 2002.
46. Black, C.D., B. Vickerson, **K.K. McCully**. Noninvasive Assessment of Vascular Function in the Posterior Tibial Artery of Healthy Humans. *Dynamic Med.* 2:1, 2003. PMID: PMC151670
47. **McCully, K.**, S. Smith, S. Rajaei, J. Leigh, Jr., B. Natelson. Blood flow and muscle metabolism in chronic fatigue syndrome. *Clinical Sci.* 104:64-647, 2003.
48. Nioka S, **K. McCully**, G. McClellan, J. Park, B. Chance. Oxygen transport and intracellular bioenergetics on stimulated cat skeletal muscle. *Adv Exp Med Biol.* 510:267-272, 2003.
49. Olive, J.L., G. Dudley, **K. McCully**. Vascular remodeling after spinal cord injury. *Med. Sci. Sports Exer.* 35: 901-907, 2003.
50. Olive, J.L., J. Slade, G. Dudley, **K. McCully**. Is muscle fatigue related to blood flow: A comparison between able-bodied and spinal cord injured individuals. *J. Appl. Physiol.* 94:701-708, 2003.
51. Castellano, V., J. Olive, L. Stoner, C. Black, **K. McCully**. Blood flow response to a postural challenge in older men and women. *Dynamic Med.* Jan 16, 3(1):1, 2004. PMC333430
52. **McCully, K.**, S. Smith, S. Rajaei, J. Leigh, Jr., B. Natelson. Muscle metabolism with blood flow restriction in chronic fatigue syndrome. *J. Appl. Physiol.* 96:871-878, 2004. PMC2680353
53. Meyer, R.A., T.F. Towse, R.W. Reid, R.C. Jayaraman, R.W. Wiseman, **K.K. McCully**. BOLD MRI mapping of transient hyperemia in skeletal muscle after single contractions. *NMR in Biomedicine.* 17:392-398, 2004.

54. Miura, H., **K. McCully**, S. Nioka, B. Chance. Relationship between muscle architectural features and oxygenation status determined by near infrared device. *Eur. J. Appl. Physiol.* 91: 273-278, 2004.
55. Olive, J.L., J. Slade, C.S. Bickel, G. Dudley, **K. McCully**. Increasing blood flow prior to exercise in spinal cord injured individuals does not alter skeletal muscle fatigue. *J. Appl. Physiol.* 96:477-482, 2004.
56. Stoner, L., M. Sabatier, K. Edge, **K. McCully**. The relationship between blood velocity and conduit artery diameter, and the effects of smoking on vascular responsiveness. *J. Appl. Physiol.* 96: 2139-2145, 2004.
57. Black, C.D., P.J. O'Connor, **K.K. McCully**. Increased daily physical activity and fatigue symptoms in chronic fatigue syndrome. *Dynamic Med.* March 3;4:3, 2005. PMC555551
58. Sabatier, M.J., L. Stoner, E.T. Mahoney, C. Black, C. Elder, G.A. Dudley, **K. McCully**. Electrically-stimulated resistance training in SCI individuals increases muscle fatigue resistance but not femoral artery size or blood flow. *Spinal Cord.* 44:227-233, 2006.
59. Sabatier M.J., L. Stoner, M.A. Reifenger, **K. McCully**. Doppler Ultrasound assessment of posterior tibial artery size in humans. *Journal of Clinical Ultrasound* 34:223-230, 2006.
60. Stoner L., M.J. Sabatier, L. Vanhiel, D. Groves, D. Ripley, **K. McCully**. Upper versus lower extremity arterial function after spinal cord injury. *Journal of Spinal Cord Medicine.* 29:138-146, 2006. PMC1864796
61. Stoner, L., M. Sabatier, E. Mahoney, G.A. Dudley, **K. McCully**. Electrical stimulation evoked resistance exercise therapy improves arterial health after chronic SCI. *Spinal Cord.* 45(1):49-56, 2007.
62. Mahoney, E.T., T.W. Puetz, G.A. Dudley, **K.K. McCully**. Low frequency fatigue in individuals with spinal cord injury. *Spinal Cord* 30(5):458-66, 2007. PMC2141726
63. Maridakis, V., P.J. O'Connor, G.A. Dudley, **K. McCully**. Caffeine attenuates delayed onset muscle pain and force loss following eccentric exercise. *Pain* 8: 237-43, 2007.
64. Black, C.D. and **K.K. McCully**. Force per active area and muscle injury during electrically stimulated contractions. *Med. Sci. Sports Exer.* 40:1596-1604, 2008. PMC2680463
65. Black, C.D., **K.K. McCully**. Muscle injury after Repeated bouts of voluntary and electrically stimulated exercise. *Med. Sci. Sports Exer.* 40:1605-1615, 2008. PMC2680450
66. Duren, C.M., M.E. Cress, **K.K. McCully**. The influence of physical activity and yoga on central arterial stiffness. *Dynamic Medicine.* 7:2, 2008. PMC2265701
67. Sabatier, M.J., E.H. Schwark, R. Lewis, G. Sloan, J. Cannon, **K. McCully**. Femoral artery remodeling after aerobic exercise training without weight loss in women. *Dynamic Medicine* 7:13, 2008. PMC2551586
68. Sabatier, M.J., **K.K. McCully**, E.L. Marinik, E.H. Schwark, S. Haddow, M. Cortez-Cooper, M.F. Bergeron, G.J. Sloan, R.D. Lewis, J.G. Cannon. Leptin, blood pressure, and aerobic fitness in middle-aged women. *Am. J. Hypertension.* 21:1245-1250, 2008. PMID: 18756258
69. Stoner, L., M.J. Sabatier, C. D. Black, **K.K. McCully**. Occasional cigarette smoking chronically affects arterial function. *Ultrasound in Medicine and Biology.* 34:1885-1892, 2008. PMID: 18799254
70. Cannon, J.G., M.J. Sabatier, E.L. Marinik, E.H. Schwark, S. Haddow, M. Cortez-Cooper, M.F. Bergeron, G.J. Sloan, and **K.K. McCully**. Femoral artery diameter and arteriogenic cytokines in healthy women. *Vascular Pharmacology.* 50:104-109, 2009. PMID: 19068240
71. Lai, N., H. Zhou, G.M. Saidel, M. Wolf, **K. McCully**, L.B. Gladden, and M.E. Cabrera. Modeling oxygenation in venous blood and skeletal muscle in response to exercise using near infrared spectroscopy. *J. Appl. Physiol.* 106(6):1858-74, 2009. PMC2692777
72. Cureton, K.J., P.D. Tomporowski, A. Singhal, J.D. Pasley, K.A. Bigelman, K. Lambourne, J.L. Trilk, **K.K. McCully**, Q. Zhao. Ergogenic and cognitive effects of quercetin supplementation in untrained men. *J. Appl. Physiol.* 107:1095-1104, 2009. PMID: 19679747

73. **McCully, K.K.**, T.N. Turner, J. Langley, Q. Zhao, The reproducibility of measurements of intramuscular magnesium concentrations. *Dynamic Medicine*. <http://www.dynamic-med.com/content/8/1/5>, 2009. PMC2801477
74. **McCully K.K.** The influence of passive stretch on muscle oxygen saturation. *Adv Exp Med Biol*. 622:317-322, 2010. PMID: 20204809
75. Rooks, C.R., N.J. Thom, **K.K. McCully**, R.K. Dishman. Effects of incremental exercise on cerebral oxygenation measured by near-infrared spectroscopy: a systematic review. *Progress in Neurobiology*. 92:134-150, 2010. PMID: 20542078
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