

CURRICULUM VITA
STEPHEN L. DODD, Ph.D., F.A.C.S.M.

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EDUCATION

1984-1986 Postdoctoral Fellow - Physiology & Biophysics - University of
Alabama at Birmingham
1982-Ph.D. Louisiana State University - Exercise Physiology
1978-M.S. University of Alabama at B'ham- Exercise Physiology
1975-B.S. University of Alabama – Physical Education

PROFESSIONAL EXPERIENCES

2002> Professor, Dept. of Applied Physiology and Kinesiology, University of
Florida
2003-2007 Chair, Dept. of Applied Physiology and Kinesiology, University of
Florida
1991-2002 Associate Professor, Dept. of Applied Physiology and Kinesiology,
University of Florida
1989-1991 Adjunct Associate Professor, Dept. of Physiology, Pharmacology &
Toxicology, School of Vet. Medicine, L.S.U.
1988-1991 Associate Professor, Graduate Coordinator, and Director, Applied
Physiology Laboratory, Louisiana State University
1988-1991 Consultant, Cardiorespiratory Technologists, E.K. Long Hospital,
Baton Rouge, LA
1988-1991 Consultant, ESRD Rehabilitation Program, Baton Rouge Dialysis
Center, Baton Rouge, LA
1986-1988 Assistant Professor, Louisiana State University
1984-1986 Teaching Assistant, Medicine & Dentistry, University of Alabama at
Birmingham
1982-1984 Assistant Professor and Director, Exercise Physiology Laboratory,
Mississippi State University
1979-1982 Research Assistant - LSU - Cardiovascular Conditioning Center
1978-1979 Instructor, Exercise Physiology and research assistant, University of
Alabama at Birmingham.

PROFESSIONAL ORGANIZATIONS

American College of Sports Medicine
The American Physiological Society
Southeastern Chapter of the American College of Sports Medicine

SERVICE

American Heart Association – Review Panel - 2010
Wellcome Trust – Review Panel, Fellowships, 2009
Portuguese Government – Scientific Review Panel – Research Institutes - 2008
American College of Sports Medicine – Research Advisory Committee 2008-2011
American Physiological Society - Communications Committee - 2005-2007
Editor, APS Research Summary on Environmental Physiology
Editor, APS Research Summary on Exercise Physiology
American Heart Association, Study Section, 2002-2007, 2009
American Physiological Society - 2002 Frontiers in Physiology Summer Research
Investigator
Oak Ridge Associated Universities Reviewer - Faculty Enhancement Award in Applied
Sciences, 2003
American College of Sports Medicine, International Committee, 2002-2004
American College of Sports Medicine, Southeast Chapter, Board of Directors, 1999-2002

Reviewer for the following scientific journals in the past 5 years:

Am J Physiol - Cell	Am J Physiol – Reg	App Physiol Nutr Metab
Med Sci Sp Ex	ACSM Health Fit J	J An Science
Acta Physiol	Eur J Appl Physiol	Neurosci Letters
Exper Biol Med	Exp Physiol	J Appl Physiol
Physiol Genomics	Resp Crit Care Med	Am J Physiol - Endo

RESEARCH

The current research interests of my lab include studies of the functional and biochemical adaptations of muscle to the following:

- Disuse
- Chronic, intermittent ischemia
- Chemical denervation

REFEREED MANUSCRIPTS PUBLISHED

Hain, BA, SL Dodd, AR Judge. $\text{I}\kappa\text{B}\alpha$ degradation is necessary for skeletal muscle atrophy associated with contractile claudication. *Am. J. Physiol. Regul Integr Comp Physiol.* 2011 Jan 5. [Epub ahead of print] (Imp. Factor = 3.1)

Senf, S., S. L. Dodd and A. Judge. FOXO signaling is required for disuse muscle atrophy and is directly regulated by Hsp70. [Am J Physiol Cell Physiol.](#) 2010, 298(1):C38-45. (Imp. Factor = 4.2)

Dodd, S.L., B.J. Gagnon, S.M. Senf, B.A. Hain, and A.R. Judge. ROS-mediated activation of NF-kB and Foxo during muscle disuse. [Muscle Nerve.](#) 2010, 41(1):110-3. (Imp. Factor = 2.6)

Dodd, S.L., B.A. Hain, S.M. Senf, and A.R. Judge. Hsp27 inhibits IKKB-induced NF-kB activity and skeletal muscle atrophy. *FASEB J.* 2009, 23(10):3415-23. (Imp. Factor = 7.0)

Dodd, S., B. Hain, and A. Judge. Hsp70 prevents disuse muscle atrophy in senescent rats. *Biogerontology.* 2009, 10(5):605-11. (Imp. Factor = 3.5)

Senf, S., S. Dodd, and A. Judge. Hsp70 overexpression inhibits NF-kB and Foxo3a transcriptional activities and prevents skeletal muscle atrophy. *FASEB J.* 2008, 22:3836-45. (Imp. Factor = 7.0)

Pickett, A., S. Dodd and B. Rzany. Confusion about diffusion and the art of misinterpreting data when comparing different botulinum toxins used in aesthetic applications. *Journal of Cos and Laser Ther.* 2008, 10(3): 181-3

Pickett, A. R. O’Keeffe, A. Judge and S. Dodd. The in vivo rat muscle force model is a reliable and clinically relevant test of consistency among botulinum toxin preparations. *Toxicon.* 2008, 52:455-464. (Imp. Factor=2.2)

Iraklis I. Pipinos, Andrew R. Judge, Joshua T. Selsby, Zhen Zhu, Stanley A. Swanson, Aikaterini A. Nella, and Stephen L. Dodd. The Myopathy of Peripheral Arterial Occlusive Disease: Part 2. Oxidative Stress, Neuropathy, and Shift in Muscle Fiber Type. *Eur J Vas Endovas Surg* 2008, 42(2): 101-12. (Imp. Factor = 2.2)

Iraklis I. Pipinos, Andrew R. Judge, Joshua T. Selsby, Zhen Zhu, Stanley A. Swanson, Aikaterini Nella and Stephen L. Dodd. The myopathy of peripheral arterial occlusive disease. Part 1: Functional and Histomorphological Changes and Evidence for Mitochondrial Dysfunction. *Eur J Vas Endovas Surg* 2008, 41(6):481-489. (Imp. Factor=2.2)

A.R. Judge, J. Selsby and S.L. Dodd. Antioxidants attenuate oxidative damage in skeletal muscle during mild ischemia. *Experimental Physiology* 2008, 93(4):479-85. (Imp. Factor = 3.0)

Smith, I.J. and S. L. Dodd. Calpain activation causes a proteasome-dependent increase in protein degradation and inhibits the Akt signalling pathway in rat diaphragm muscle. *Experimental Physiology.* 2007, 92(3): 561-573. (Imp. Factor= 3.0)

Selsby, JT, Rother, S, Tsuda, S, Pracash, O, Quindry, J, and Dodd, SL. Intermittent hyperthermia enhances skeletal muscle regrowth and attenuates oxidative damage following reloading. *J Appl Physiol.* 2007, 102(4): 1702-07. (Imp. Factor=3.6)

Pipinos, I.I., Judge, A. R., Zhen, Z., Selsby, J. T., Swanson, S. A., Johanning, J. M., Baxter, B. T., Lynch, T. G. and Dodd, S. L. Mitochondrial defects and oxidative damage in patients with peripheral arterial disease. *Free Radical Biology and Medicine*, 2006 41(2): 262-269. (Imp. Factor=5.4)

- Yimlamai, T., S. L. Dodd, S. E. Borst, and S. Park. Clenbuterol Attenuates Hindlimb Unweighting-Induced Muscle Atrophy by Reducing the Activation of the Ubiquitin-Proteasome Pathway. *J Appl Physiol*. 2005 Jul;99(1):71-80. (Imp. Factor=3.6)
- Dodd, S.L., J. T. Selsby, A. Payne, A. M. Judge, and C. Dott. Botulinum neurotoxin type A (Dysport) causes shifts in myosin heavy chain composition in muscle. *Toxicon* 2005 Aug;46(2):196-203. (Imp. Factor=2.2)
- Selsby, J. T. and S. L. Dodd. Heat treatment reduces oxidative stress and protects muscle mass during immobilization. *Am J Physiol Regul Integr Comp Physiol*. 2005 Jul;289(1):R134-9. (Imp. Factor=3.7)
- Selsby, J., A. Judge, T. Yimlamai, C. Leeuwenburgh, and S. L. Dodd. Life long calorie restriction increases heat shock proteins and proteasome activity in soleus muscles of Fisher 344 rats. *Exp Gerontology*. 2005 40(1-2): pp 37-42. (Imp. Factor=2.9)
- Dodd, S. L., C. A. Johnson, K. Fernholz, and J. A. St. Cyr. The role of ribose in human skeletal muscle metabolism *Med Hypoth*. 2004 62 (5): 819-824. (Imp. Factor=1.3)
- Judge, A. and S. L. Dodd. Xanthine oxidase and activated neutrophils cause oxidative damage to skeletal muscle following contractile-induced claudication. *Am J Physiol Heart Circ Physiol*. 2004 286(1):H252-6. (Imp. Factor=3.9)
- Payne, A. M., S. L. Dodd, and C. Leeuwenburgh. Life-long calorie restriction in Fischer 344 rats attenuates age-related loss in skeletal muscle-specific force and reduces extracellular space. *J Appl Physiol*. 2003 95: 2554 – 2562. (Imp. Factor=3.6)
- Judge, A. and S.L. Dodd. Oxidative damage to skeletal muscle following an acute bout of contractile claudication. *Atherosclerosis*. 2003 171(2): 219-224. (Imp. Factor=4.3)
- Eason, J.M., S.L.Dodd, and S.K. Powers. Use of anabolic steroids to attenuate the effects of glucocorticoids on the rat diaphragm. *Physical Therapy*. 2003 83(1):29-36. (Imp. Factor=2.1)
- Koesterer TJ, SL Dodd, and S Powers. Increased antioxidant capacity does not attenuate muscle atrophy caused by unweighting. *J Appl Physiol*. 2002 93(6):1959-65. (Imp. Factor=3.2)
- Coombes, JS, B Rowell, SL Dodd, HA Demirel, H Naito, RA Shanely, SK Powers. Effects of vitamin E deficiency on fatigue and muscle contractile properties. *Eur J Appl Physiol*. 2002 87:272-277. (Imp. Factor=1.6)
- Powers, S., A Shanely, J. Coombes, T. Koesterer, M McKenzie, D Gammeren, M Cicale, and S. Dodd. Mechanical ventilation results in progressive contractile dysfunction in the diaphragm. *J Appl Physiol*. 2002 92: 1851-1858. (Imp. Factor=3.2)
- Dodd, S. and T. Koesterer. Clenbuterol attenuates muscle atrophy and dysfunction in hindlimb-suspended rats. *Aviat Space Environ Med*. 2002 73:635-639.

Vrabas, I.S., S. L. Dodd, M.P. Crawford. Interaction of blood flow and oxygen delivery affects peak VO₂ and fatigue in canine muscle *in situ*. *Eur. J. Appl. Physiol.* 2002 86:273-279.

Coombes, J.S., S. K. Powers, B. Rowell, K. L. Hamilton, S.L. Dodd, R. A. Shanely, C. K. Sen, and L. Packer. Effects of vitamin E and {alpha}-lipoic acid on skeletal muscle contractile properties *J. Appl. Physiol.* 2001 90(4):1424-1430.

Fletcher LK, Powers SK, Coombes JS, Demirel H, Vincent H, Dodd SL, Mclaughlin J. Glucocorticoid-induced alterations in the rate of diaphragmatic fatigue. *Pharmacol Res.* 2000 42(1):61-8.

Douex, A.T., M.B. Horodyski, T.W. Kaminski, S.L. Dodd, G. Rozea. The effects of muscle fatigue on lower body proprioception as measured by dynamic postural stability. *J. Athl. Train.* 2000 35:15.

Naito H, Powers SK, Demirel HA, Sugiura T, Dodd SL, Aoki J. Heat stress attenuates skeletal muscle atrophy in hindlimb-unweighted rats. *J Appl Physiol.* 2000 88(1):359-63.

Eason JM, SL Dodd, SK Powers, AD Martin. Deterimental effects of short-term glucocorticoid use on the rat diaphragm. *Physical Therapy* 80:160-167, 2000

[Vrabas, I., S. Dodd, S. Powers, M. Hughes, J. Coombes, L. Fletcher, H. Demirel, and M. Reid. Endurance training reduces the rate of diaphragm fatigue in vitro. *Med. Sci. Sports Exer.* 1999 Vol. 31, \(11\): 1605-1611.](#)

[Dodd, S.L., I. Vrabas, D.S. Stetson, and S.K. Powers. The effects of intermittent ischemia on contractile properties and myosin isoforms of skeletal muscle. *Med. Sci. Sports Exer.* 30\(6\):850-855, 1998.](#)

Dodd, S.L., Rowell, I. Vrabas, R. Arrowsmith, and P. Weatherill. A comparison of the spread of three formulations of botulinum neurotoxin A as determined by effects on muscle function. *European Journal of Neurology.* 4: 1-6, 1997.

Criswell DS, Powers SK, Herb RA, Dodd SL. Mechanism of specific force deficit in the senescent rat diaphragm. *Respir Physiol.* Feb;107(2):149-55, 1997.

Hodge K, Powers SK, Coombes J, Fletcher L, Demirel HA, Dodd SL, Martin D. Bioenergetic characteristics of the costal and crural diaphragm in mammals. *Respir Physiol.* Aug;109(2):149-54, 1997.

Dodd, S.L., S.K. Powers, I.S. Vrabas, D. Criswell, and R. Hussain. Effects of short-term clenbuterol administration on contractile properties and fatigue of skeletal muscle in situ. *Medicine and Science in Sports and Exercise* 28(6):669-676, 1996.

Powers, S., G. Farkas, H. Demirel, J. Coombes, L. Fletcher, M. Hughes, K. Hodge, S. Dodd, and E. Schlenker. Effects of aging and obesity on respiratory muscle phenotype in

Zucker rats. *Journal of Applied Physiology*. 81: 1347-1354, 1996.

Norenberg, K.M., R. A. Herb, S. L. Dodd, S. K. Powers. The effects of hypothyroidism on contractile properties of single muscle fibers. *Canadian J. Physiol. Pharm.* 74(4):362-367, 1996.

Powers SK, Criswell D, Herb RA, Demirel H, Dodd S. Age-related increases in diaphragmatic maximal shortening velocity. *J Appl Physiol*. 1996 Feb;80(2):445-51.

Dodd, S.L., S.K. Powers, I.S. Vrabas, and J.M. Eason. Interaction of glucocorticoids and activity patterns affect muscle function. *Muscle & Nerve* 18:190-195, 1995.

Powers, S.K., M. Wade, D. Criswell, R. Herb, S. Dodd, R. Hussain, and D. Martin. Role of beta-adrenergic mechanisms in exercise training-induced metabolic changes in respiratory and locomotor muscle. *Int. J. Sports Med.* 16(1):13-18, 1995.

Powers, S.K. G.A. Farkas, D. Criswell, R.A. Herb, K. Zambito, and S. Dodd. Metabolic characteristics of primary inspiratory and expiratory muscles in the dog. *J. Appl. Physiol.* 77(5):2188-2193, 1994.

Dodd, S.L., Powers, S.K., P. Crawford. Type of contraction affects maximal blood flow and VO₂ in isolated, contracting muscle. *Med. Sci. Sp. Exer.* 26(8):997-1002, 1994.

Criswell, D., S. Powers, S. Dodd, J. Lawler, W. Edwards, K. Renshler, & S. Grinton. High intensity training-induced changes in skeletal muscle antioxidant enzyme activity. *Med. Sci. Sp. Exer.* 25:1135-1140, 1993.

Powers, S., F. Lieu, D. Criswell, and S. Dodd. Biochemical verification of quantitative histochemical analysis of succinate dehydrogenase activity in skeletal muscle fibers. *Histochemical J.* 25:491-496, 1993.

Edwards, W.W., E. Glickman-Weiss, B.D. Franks, Y. Iyriboz, S.L. Dodd, & T.P. Quaid. Percutaneous transluminal coronary angioplasty rehabilitation: A cost-effective analysis. *J. Cardiopul. Rehab.* 13(3): 172-181, 1993.

Dodd, S., E. Brooks, S. Powers & P. Crawford. The effects of reducing O₂ delivery with anemia, hypoxia, and ischemia on VO₂max in contracting muscle in situ. *J. Appl. Physiol.* 74(1):186-191, 1993.

Powers, S., D. Criswell, Fu-Kong Lieu, Stephen Dodd, and Harold Silverman. Exercise-induced cellular alterations in the diaphragm. *Am. J. Physiol.* 263:R1093-1098, 1992.

Grinton, S., S. Powers, J. Lawler, D. Criswell, S. Dodd, and W. Edwards. Endurance training-induced increases in expiratory muscle oxidative capacity. *Med. Sci. Sp. Exer.* 24:551-555, 1992.

- Powers, S.K., Criswell, D., Lieu, F.K., Dodd, S. & Silverman, H. Diaphragmatic fiber type specific adaptation to endurance exercise. *Resp. Physiol.* 89:195-207, 1992.
- Powers SK, Grinton S, Lawler J, Criswell D, Dodd S. High intensity exercise training-induced metabolic alterations in respiratory muscles. *Respir Physiol.* Aug;89(2):169-77, 1992.
- Powers, S.K., J. Lawler, D. Criswell, F. -K. Lieu, and S. Dodd. Alterations in diaphragmatic oxidative and antioxidant enzymes in the senescent Fischer 344 rat. *J. Appl. Physiol.* 72(6): 2317-2321, 1992.
- Powers, S.K., S. Dodd, D. Criswell, J. Lawler, D. Martin, and S. Grinton. Evidence for an alveolar-arterial PO₂ gradient threshold during incremental exercise. *Int. J. Sports Med.* 12(3):313-318, 1991.
- Criswell, D., S. Powers, J. Lawler, J. Tew, S. Dodd, Y. Iryboz, R. Tulley, and K. Wheeler. Influence of a carbohydrate-electrolyte beverage on performance and blood homeostasis during recovery from football. *Int. J. Sp. Nutrition.* 1: 178-191, 1991.
- Williams, A., R. Stephens, T. McKnight & S. Dodd. Factors affecting adherence of end-stage renal disease patients to an exercise program. *Brit. J. Sports Med.* 25(1): 90-94, 1991.
- Stephens, R., A. Williams, T. McKnight, & S. Dodd. Effects of self-monitored exercise on selected blood chemistry parameters of end-stage renal disease patients. *Am. J. Phy. Med. & Rehab.* 70(3):149-153, 1991
- Dodd, S.L., Brooks, E., Powers, S.K., & Tulley, R. The effects of caffeine on graded exercise performance in caffeine naive versus habituated subjects. *Eur. J. Appl. Physiol.* 62(6):420-425, 1991.
- Powers, S.K., J. Lawler, D. Criswell, S. Dodd, and H. Silverman. Age-related changes in enzyme activity in the rat diaphragm. *Resp. Physiol.* 83:1-10, 1991.
- Powers, S.K., J. Lawler, S. Dodd, R. Tulley, G. Landry, K. Wheeler. Fluid replacement drinks during high intensity exercise: effects on minimizing exercise-induced disturbances in homeostasis. *Eur. J. Appl. Physiol.* 60:54-60, 1990.
- Dodd, S., S. Powers, D. Thompson, G. Landry & J. Lawler. Exercise performance following intense, short-term ventilatory work. *Int. J. Sports Med.* 10(1):48-52, 1989.
- Stork, R., S. Dodd and S. Cain. Regional hemodynamic responses to hypoxia and polycythemia. *J. Appl. Physiol.* 67(1):96-102, 1989.
- Powers, S., J. Lawler, J. Dempsey, S. Dodd, & G. Landry. Effects of incomplete pulmonary gas exchange on VO₂max. *J. Appl. Physiol.* 66(6):2491-2495, 1989.

- Lawler, J., G. Landry, S.K. Powers, B. Baker, S. Dodd, R. Richard. Accuracy of the Ohmeda 3700 Pulse Oximeter in Estimating Heart Rate during Exercise. *Resp. Care* 34(8): 724-727, 1989.
- Powers, S.K., S. Dodd, J. Freeman, G. Ayers, H. Samson, & T. McKnight. Accuracy of pulse oximetry to estimate HbO₂ fraction of total Hb during exercise. *J. Appl. Physiol.* 67(1):300-304, 1989.
- Dodd, S., S. Powers, N. O'Malley, E. Brooks & H. Sommers. The effects of acute beta-blockade on ventilation and gas exchange during graded, incremental exercise. *Aviat., Space and Environ. Med.* 59: 718-722, 1988.
- Powers, S., S. Dodd, J. Lawler, G. Landry, M. Kirtly, T. McKnight & S. Grinton. Incidence of exercise induced hypoxemia in elite endurance athletes at sea level. *Eur. J. Appl. Physiol.* 58:298-302, 1988.
- Dodd, S., S. Powers, N. O'Malley, E. Brooks & H. Sommers. The effects of acute beta-blockade on ventilation and gas exchange during the rest-to-work transition. *Aviat., Space and Environ. Med.* 59:255-258, 1988.
- Lawler, J., S. Powers, S. Dodd. A time-saving incremental cycle ergometer protocol to determine peak oxygen consumption. *Brit. J. Sp. Med.* 21(4): 171-173, 1987
- Nelson, D., C. King, S. Dodd, P. Schumaker & S. Cain. Systemic and intestinal limits of oxygen extraction in the dog. *J. Appl. Physiol.* 63(1): 387-394, 1987.
- Dodd, S., C. King & S. Cain. Responses of innervated and denervated gut to whole body hypoxia. *J. Appl. Physiol.* 62(2):651-657, 1987
- King, C., S. Dodd & S. Cain. Muscle oxygen deficit during hypoxia and two levels of oxygen demand. *J. Appl. Physiol.* 62(4):1384-1391, 1987.
- King, C., S. Dodd & S. Cain. Oxygen delivery to contracting muscle during hypoxic or carbon monoxide hypoxia. *J. Appl. Physiol.* 63(1):587-591, 1987.
- Dodd, S., C. King & S. Cain. Gut and whole body oxygen deficits during and excess uptake after hypoxia. *Advances in Experimental Medicine and Biology: Oxygen Transport to Tissue VIII.* Plenum Press, New York, 1986, pp. 449-456.
- King, C., S. Dodd, W. Stainsby & S. Cain. Does contracting muscle restore its energy balance after hypoxia? *Advances in Experimental Medicine and Biology: Oxygen Transport to Tissue VIII.* Plenum Press, New York, NY. 1986, pp. 539-544.
- Powers, S., S. Dodd & R. Beadle. Oxygen uptake kinetics in trained athletes differing in VO_{2max}. *Eur. J. Appl. Physiol.* 54(3):306-308, 1985.

Powers, S., S. Dodd, J. Woodyard & M. Mangum. Caffeine alters ventilatory and gas exchange kinetics during exercise. *Med. Sci. Sports Exer.* 18(1) :101-106, 1985.

England, P., S. Powers, S. Dodd, T. Callender & E. Brooks. The effects of acute thermal dehydration on blood lactate accumulation during incremental exercise. *J. Sports Sci. (London)* 2:105-111, 1985.

Dodd, S., S. Powers, T. Callender & E. Brooks. Blood lactate disappearance at various intensities of recovery exercise. *J. Appl. Physiol.* 57(5):1462-1465, 1984.

Powers, S., S. Dodd & R. Garner. Precision of ventilatory and blood gas alterations as predictors of the anaerobic threshold. *Eur. J. Appl. Physiol.* 52: 173-177, 1984.

Powers, S., S. Dodd, J. Woodyard, & G. Church. Hemoglobin saturation during incremental arm and leg exercise. *Brit. J. Sp. Med.* 18(3): 212-216, 1984.

Powers, S., S. Dodd, & R. Deason, R. Byrd, & T. McKnight. Ventilatory threshold, running economy, and distance running performance. *Res. Quart. for Exer. & Sport.* 54(2): 179-182, 1983.

BOOKS

Powers, S.K. and S. L. Dodd. *Total Fitness: Exercise, Nutrition, and Wellness*. Allyn & Bacon Publishing, Needham Heights, NJ, 1997, 2002, 2004.

Powers, S.K. and S. L. Dodd. *Essentials of Total Fitness: Exercise, Nutrition, and Wellness*. Allyn & Bacon Publishing, Needham Heights, NJ, 1997, 2002, 2004.

CHAPTERS IN BOOKS

Powers, S. and S. Dodd. Caffeine and endurance performance. In: *Performance enhancement in sport*. ADIS press, Auckland, New Zealand, pp. 21-30, 1989.

INVITED REVIEWS (Refereed)

Iraklis I. Pipinos, Andrew R. Judge, Joshua T. Selsby, Zhen Zhu, Stanley A. Swanson, Aikaterini A. Nella, and Stephen L. Dodd. The Myopathy of Peripheral Arterial Occlusive Disease: Part 2. Oxidative Stress, Neuropathy, and Shift in Muscle Fiber Type. *Eur J Vas Endovas Surg* 2008, 42(2): 101-12. (Imp. Factor = 2.2)

Iraklis I. Pipinos, Andrew R. Judge, Joshua T. Selsby, Zhen Zhu, Stanley A. Swanson, Aikaterini Nella and Stephen L. Dodd. The myopathy of peripheral arterial occlusive disease. Part 1: Functional and Histomorphological Changes and Evidence for Mitochondrial Dysfunction. *Eur J Vas Endovas Surg* 2008, 41(6):481-489. (Imp. Factor=2.2)

Dodd, S., R. Herb, and S. Powers. Caffeine and exercise performance: An update. *Sports Medicine*. 15(1):14-23, 1993.

Powers, S.K., D. Martin, and S. Dodd. Exercise-induced hypoxaemia in elite endurance athletes. *Sports Medicine*. 16(1):14-22, 1993.

Powers, S. and S. Dodd. Caffeine and sports performance. A Review. *Sports Medicine*. 2(3):165-174, 1985.

PRESENTATIONS (Invited)

Microgravity-induced muscle wasting. Florida Consortium on Space Research, Gainesville, FL, Sept, 2007.

Mechanisms of disuse atrophy in skeletal muscle. Conference on Sports Medicine, Mendoza, Argentina, May 2006.

Oxidative Stress-Induced damage in limb muscle caused by intermittent ischemia. Seminar-University of Nebraska School of Medicine, Sept., 2004.

Performance affects of altering hemoglobin in the elderly. Institute for Aging and Geriatric Medicine, Washington, D.C., March, 2003.

Musculoskeletal exercise training. *South Program School*. YMCA of the USA. Nashville, TN. August, 2002.

Cardiovascular Health and Exercise. *South Program School*. YMCA of the USA. Nashville, TN. January, 2001.

Resistance Training for Special Populations. *International Symposium on Physical Activity*. Rio de Janiero, Brazil. June 30, 2000.

Neuromuscular adaptation to exercise. *South Program School*. YMCA of the USA. Atlanta, GA. May, 1999.

Musculoskeletal exercise training. *Physical Directors Workshop*. YMCA of the USA. Louisville, KY. October, 1998.

Applications of exercise physiology to health and disease. *Physical Directors Workshop*. YMCA of the USA. Cincinnati, OH. April, 1998.

The Use of Muscle Contractile Properties as an Assessment Tool for Malnutrition. *Nutrition Assessment Technology Roundtable*. Ross Laboratories, Columbus, Ohio, November 7, 1996.

Physical Activity: Its risks. *International Seminar on Health and Physical Activity*. Santiago, Chile. October 8, 1996.

Advances in Muscle Physiology: Response to Training. *Lecture*, Metropolitan University of Santiago, Santiago, Chile. October 9, 1996.

Muscle Adaptation to Overload Training. *International Seminar on Health and Physical Activity*. Santiago, Chile. October 10, 1996.

Applications of exercise physiology to health and disease. *Physical Directors Workshop*. YMCA of the USA. Tampa, FL. February, 1996.

Cardiovascular adaptations to exercise. *Fall Program School*. YMCA of the USA. Blue Ridge, NC. October, 1995.

Dodd, S. Neuromuscular adaptations to exercise. *Spring Program School*. YMCA of the USA. Boca Raton, FL. May, 1996.

Dodd, S.L. Metabolic adaptations to Exercise. *Spring Program School*, YMCA of the USA, Cincinnati, OH, April, 1995.

Dodd, S.L. Muscle Structure and Function. *Winter Program School*, YMCA of the USA, Clearwater, FL, February, 1995.

Dodd, S.L. Cardiovascular adaptations to exercise. *Fall Program School*, YMCA of the USA, Black Mountain, NC, October, 1994.

Dodd, S.L. Muscle function during exercise. *Summer Program School*, YMCA of the USA, Birmingham, AL, July, 1994.

Dodd, S.L. Cardiovascular response to exercise. *Winter Program School*, YMCA of the USA, Savannah, GA, February, 1994

Dodd, S.L. Muscle function during exercise. *Fall Program School*, YMCA of the USA, Blue Ridge, NC, October, 1993

Dodd, S.L. Circulatory adaptations to exercise training. *Spring Program School*, YMCA of the USA, Fort Walton, FL, March, 1992

Dodd, S.L. Cardiovascular adjustments to exercise training. *Spring Program School*, YMCA of the USA, Clearwater, FL. March, 1991

Dodd, S.L. Respiratory and metabolic adjustments to exercise training. *Fall Program School*, YMCA of the USA, Asheville, NC. October, 1990

Dodd, S.L. The use of METS in exercise prescription. *Fall Program School*, YMCA of the USA, Raleigh, NC October, 1989

Dodd, S.L. Cardiorespiratory adjustments to acute and chronic exercise. *Fall Program School*, YMCA of the USA, Jacksonville, FL Spring, 1989

Dodd, S.L. Future trends in exercise physiology. *Fall Program School*, YMCA of the USA, Chattanooga, TN October, 1988

Dodd, S.L. Cardiorespiratory adjustments to acute and chronic exercise. *Fall Program School*, YMCA of the USA, Orlando, FL Spring, 1988

PRESENTATIONS (PROFESSIONAL MEETINGS)

LECTURES

Regional - Invited

The role of heat shock proteins in skeletal muscle wasting. Symposium – Southeastern Chapter – American College of Sports Medicine- Greenville, SC, Feb. 2010

Oxidative Stress-Induced damage in limb muscle caused by intermittent ischemia. Seminar- University of Nebraska - School of Medicine, Sept., 2004.

Microgravity-induced muscle wasting. Florida Consortium on Space Research, Gainesville, FL, Sept, 2007.

International - Invited

Heat shock proteins as ergogenic aids. Aleixo Institute, Cabo Frio, Brazil. July, 2010.

Mechanisms of disuse atrophy in skeletal muscle. International Conference on Sports Medicine, Catamarca University, Mendoza, Argentina, May 2006.

Performance associated with altering hemoglobin in the elderly. Institute for Aging and Geriatric Medicine, Washington, D.C., March, 2003.

PRESENTATIONS

International – Not Invited

* Indicates graduate student working in my lab

** Indicates Post-Doctoral Fellow working in my lab

*Senf, S., S. Dodd, and A. Judge. Hsp70 Represses Disuse-Induced Acetylation and Modulates FOXO3a Protein-Protein Interactions in the Nucleus. *Frontiers in Myogenesis and Skeletal Muscle Satellite and Stem Cells*, New York, NY, 2009

*Judge, A., B.A. Hain, S. Dodd, and I. Pipinos. Common transcriptional changes in NF- κ B signaling in skeletal muscle from Peripheral Arterial Disease patients and following repeated bouts of exercise claudication in a rat model. *Frontiers in Myogenesis and Skeletal Muscle Satellite and Stem Cells*, New York, NY, 2009

*Senf, S., A. Judge**, and S. Dodd. The role of Foxo in muscle atrophy. *Biannual Meeting of Integrative Biology -American Physiological Society*, Hilton Head South Carolina, Oct. 2008

*Hain, B., A. Judge,**, and S. Dodd. Hsp27 overexpression attenuates muscle atrophy caused by ischemia. *Biannual Meeting of Integrative Biology -American Physiological Society*, Hilton Head South Carolina, Oct. 2008

*Senf, Sarah, A. Judge**, S. Dodd. The role of NFkB in disuse atrophy. *Biannual Meeting - International Cachexia in Muscle Disease*, St. Petersburg, FL, Dec., 2007.

O'Keefe, R., A. Pickett, N. Panjwani, S. Dodd. Botulinum type A toxin complex (Dysport) formulated from bulk active substance has predictable and reproducible activity: results of a novel in vivo rat limb model. *International conference, Basic and Therapeutic Aspects of Botulinum and Tetanus Toxins*, Denver, CO, June 23, 2005.

*Selsby, J. and S. Dodd. Heat treatment increases heat shock proteins and attenuates muscle damage during reloading. *Annual Meeting of Experimental Biology*, San Diego, CA, April, 2005.

Selsby, J.T., A.R. Judge and S.L. Dodd. Vitamins C and E attenuate oxidative damage and neutrophil infiltration into skeletal muscle following contractile-induced claudication. *Annual Meeting of Experimental Biology*, San Diego, CA. April, 2005.

*Selsby, J., and S. Dodd. Heat Shock Proteins and muscle wasting caused by immobilization. *Annual Meeting of the International Association for Gravitational and Space Biology*. New York, NY, September, 2004.

*Smith, I.J. IV, T. Yimlamai J.T., A. Judge, S. Kendaiah and S. Dodd. Effect of Calcium on Indices of Damage and Proteolysis in Rat Skeletal Muscle. *Annual Meeting of Experimental Biology*, Washington, D.C. 2004

Selsby, J.T. , A.R. Judge, T. Yimlamai* and S. Dodd. Caloric restriction increases heat shock proteins in aging skeletal muscle. *Annual Meeting of Experimental Biology*, Washington, D.C. 2004

*Selsby, J., S. Dodd. Oxidative damage induced by immobilization is attenuated with heat treatment. *Annual Meeting of Experimental Biology*, Washington, D.C. 2004

*Judge, A., J. *Selsby, S. Dodd. IL-1 β , IL- 6, And TNF- α are not elevated in skeletal muscle following contractile claudication. *Annual Meeting of Experimental Biology*, Washington, D.C. 2004

*Yimlamai T. and S. Dodd. Activation of the ubiquitin-proteasome pathway during muscle unweighting. *Annual Meeting of Experimental Biology*, San Diego, CA, 2003

*Judge A. and S. Dodd. Xanthine oxidase and activated neutrophils cause oxidative damage to skeletal muscle following contractile-induced claudication. *Annual Meeting of the American College of Sports Medicine*. San Francisco, CA, 2003

National – Not Invited

*Hain, B., F. *Houston, R.* Mann, S. Dodd. Botulinum neurotoxin type A induces skeletal muscle atrophy without altering heat shock protein 70 expression. *Integrative Physiology of Exercise*, Miami, FL, Sept. 2010

*Senf, S.M., S.L. Dodd and A.R. **Judge. Repression of Foxo3a-induced transcription by Hsp70 does not require Foxo3a nuclear export. *Understanding Muscle: From Development to Disease*, Columbus, OH, 2009

*Hain, B.A., S.L. Dodd and A.R. **Judge. Transcriptional regulation of skeletal muscle atrophy genes in a rat exercise claudication model: Role of NF-kB. *Understanding Muscle: From Development to Disease*, Columbus, OH, 2009

*Judge A. and S. Dodd. Oxidative stress to skeletal muscle following contractile-induced claudication. *Annual Meeting of the Oxygen Radical Society*, Portland, Oregon, 2003.

Kavazis, A.N., I. Smith, S. Dodd, E. A. Ott. The role of alanine and histidine in muscle fatigue. *Equine Nutrition and Physiology Society Symposium*, East Lansing, Michigan, June 4 – 7, 2003

Regional – Not Invited

Pipinos, I., A. Judge, S. Dodd. Mitochondrial Defects and Oxidative Damage in Skeletal Muscle of Patients with Peripheral Arterial Disease. *Annual Meeting of the SouthWestern Medical Assoc. June, 2005.*

Dodd, S., A. Payne, J. Selsby. Local heat stress increases expression of heat shock protein 72. *Medicine and Science in Sports and Exercise*. Vol. 34 (5) S249. Annual Meeting of the American College of Sports Medicine. St. Louis, MO, May, 2002.

Judge, A., S. Dodd. Oxidative stress is associated with contractile-induced skeletal muscle ischemia. *Medicine and Science in Sports and Exercise*. Vol. 34 (5) S187. Annual Meeting of the American College of Sports Medicine. St. Louis, MO, May, 2002.

Yimlamai, T., S. Dodd. Effect of unweighting on the ubiquitin-proteasome pathway of skeletal muscle in rat *Experimental Biology*. New Orleans, LA, March, April, 2002

Payne, A., S. Dodd. The effect of caloric restriction on skeletal muscle function. *Experimental Biology*, New Orleans, LA, March, April, 2002

Payne AM, Judge AR, Selsby JT, Smith IJ, and Dodd SL. Contractile properties of botulinum neurotoxin A-treated skeletal muscle. Annual Meeting of the Southeastern Chapter of the American College of Sports Medicine. Atlanta, GA, February, 2002.

Judge, A. T. Payne, S. Dodd. Validation of an *in vivo* rat model for determination of muscle function. Annual Meeting of the Southeastern Chapter of the American College of Sports Medicine. Atlanta, GA, February, 2002.

Dodd, S.L., FACSM, T. Koesterer, I. Smith, T. Yimlamai, and S. Powers. The effects of antioxidant supplementation on muscle disuse atrophy. *Medicine and Science in Sports and Exercise*. Vol. 33(5): Supplement (p. S325), 2001. Annual Meeting of the American College of Sports Medicine. June, 2001. Baltimore, MD

Magyari, P.M., T. Koesterer, A. Dirks, A. Anderson, R. Braith, S. Dodd. The effects of a 10-week weight training program on rat limb muscle. *Medicine and Science in Sports and Exercise*. Vol. 33(5): Supplement (p. S133), 2001. Annual Meeting of the American College of Sports Medicine. June, 2001. Baltimore, MD

Papin, W.J., R.W. Braith, FACSM, P.M. Magyari, S.L.Dodd. The effect of transdermal prohormone supplementation on serum hormone levels, fat free mass and muscular strength in resistance-trained young men. Annual Meeting of the American College of Sports Medicine. June, 2001. Baltimore, MD

Dodd, S., A. Anderson, W. Smith. The effects of creatine supplementation on muscle protein and contractile properties. Experimental Biology, Orlando, FL, March, 2001.

T. Koesterer, S. Dodd, I. Smith, T. Yimlamai, and S. Powers. The effects of antioxidant supplementation on muscle disuse atrophy. Graduate Student Forum, University of Florida.

Dodd, S., S. Powers, T. Koesterer. A Symposium entitled: Muscle Disuse Atrophy: Role of antioxidants and heat shock countermeasures. SEACSM Annual Meeting, Charlotte, NC, February, 2000.

Dodd, S., S. Powers, C. Leuwenburg. *A Symposium entitled: Exercise, radicals, and health: Role of radicals in atherosclerosis, muscle atrophy, and muscle fatigue.* SEASCM Annual Meeting, Norfolk, VA, February, 1999.

Dirks, A., H. Vincent, S. Powers, S. Dodd. Short-term training improves skeletal muscle but not myocardial protection against oxidative injury *in vitro*. *Medicine and Science in Sports and Exercise*. Vol. 31(4):Supplement, p. S-108, 1999. Annual Meeting of the American College of Sports Medicine. May, 1999. Seattle, WA.

Dodd, S. and T. Koesterer. The effects of alpha-keto and amino acid supplementation on muscle wasting caused by hindlimb suspension. *Exp. Biology*. San Francisco, CA, April, 1998.

Eason, J. and S. Dodd. The effects of short-term glucocorticoid administration on diaphragm mass and function. *Exp. Biology*. New Orleans, LA, April, 1997.

Dodd, S. and S. Powers. The effects of aging on skeletal muscle function: A Symposium. American Alliance for Health, Physical Education, and Recreation. Atlanta, GA. April, 1996. RQES. Vol. 67-S, p. A-26, 1996.

Dodd, S. and S. Powers. Exercise, Aging, and Skeletal Muscle: A Symposium. Southeastern American College of Sports Medicine, Chattanooga, TN, Jan., 1996.

Dodd, S. and I. Vrabas. Contractile and biochemical adaptation of the diaphragm to endurance exercise. *Medicine and Science in Sports and Exercise*. Vol. 28(4):Supplement, p. S-28, 1996. Annual Meeting of the American College of Sports Medicine. Cincinnati, OH. May, 1996.

Vrabas, I. and S. Dodd. Mechanisms of diaphragm fatigue. 38th World Congress of ICHPER-SD. Gainesville, FL. July, 1995

Eason, J. S. Dodd, D. Stetson, S. Powers. Hypertrophic response of diaphragm muscle to the beta-agonist clenbuterol. 38th World Congress of ICHPER-SD. Gainesville, FL. July, 1995

Stetson, D., S. Dodd, J. Eason, I Vrabas, S. Powers. Zinc does not prevent muscle atrophy and dysfunction during periods of hindlimb unweighting. 38th World Congress of ICHPER-SD. Gainesville, FL. July, 1995

Dodd, S., I. Vrabas, and J. Eason. *Symposium: Anatonism of glucocorticoid-induced muscle wasting and dysfunction*. 38th World Congress of ICHPER-SD. Gainesville, FL. July, 1995

Norenburg, K., and Dodd, S. The effects of hypothyroidism on contractile properties of single fibers. *Medicine and Science in Sports and Exercise*. Vol. 27(4):S216, 1995, Annual Meeting of the American College of Sports Medicine, Minneapolis, MN, May, 1995.

Powers, S.K. F. Farkas, H. Demirel, J. Coombes, L. Fletcher, K. Hodge, M. Hughes, and S. Dodd. Effects of aging and obesity on respiratory muscle phenotype in Zucker rats. *Medicine and Science in Sports and Exercise*. Vol. 27(5):S182, 1995. Annual Meeting of the American College of Sports Medicine. Minneapolis, MN, May, 1995.

Criswell, D.S., S.K. Powers, R.A. Herb, and S. L. Dodd. Mechanisms of specific force deficit in the senescent rat diaphragm. *Medicine and Science in Sports and Exercise*. Vol. 27(5):S79, 1995. Annual Meeting of the American College of Sports Medicine. Minneapolis, MN, May, 1995.

Herb, R.A., S. Powers, D. Criswell, and S. Dodd. Diaphragmatic single fiber contractile function in response to hypothyroidism. *Medicine and Science in Sports and Exercise*. Vol. 27(5):S217, 1995, Annual Meeting of the American College of Sports Medicine. Minneapolis, MN, May 1995.

Vrabas, I., and Dodd, S. Hypothyroidism alters skeletal muscle myosin phenotype. *Medicine and Science in Sports and Exercise*. Vol. 27(5):S216, 1995. Annual Meeting of the American College of Sports Medicine. Minneapolis, MN, May 1995.

Vrabas, I.S., Dodd, S.L., Herb, R.A., & Powers, S.K. Hypothyroidism affects muscle protein isoforms. Graduate Student Research Forum. University of Florida, March, 1995.

Dodd, S.L., I.S. Vrabas, R.A. Herb, and S.K. Powers. The effects of hypothyroidism on contractile properties of limb skeletal muscle. International Meeting for Exercise Biochemistry. Aberdeen, Scotland, July, 1994.

Dodd, S.L., J.M.Eason, S.K. Powers, D.S. Stetson, K.M. Norenburg, & I.Vrabas. Clenbuterol antagonizes the effects of glucocorticoids on rat diaphragm muscle. Med. Sci. Sports Exer. 26(5):S193, 1994. American College of Sports Medicine, Indianapolis, IN, June, 1994

Vrabas, I.S., S.L. Dodd, D.S. Stetson, K.M. Norenberg, S.K. Powers. The effects of intermittent ischemia on skeletal muscle function. Med. Sci. Sports Exer. 26(5):S192, 1994. American College of Sports Medicine, Indianapolis, IN, June, 1994

Herb, R.A., D.S. Criswell, S.K. Powers, I.S. Vrabas, J.M. Eason, S.L. Dodd. Hypothyroidism alters phenotypic and contractile properties of the rat diaphragm. Med. Sci. Sports Exer. 26(5):S193, 1994. American College of Sports Medicine, Indianapolis, IN, June, 1994

Criswell, D.S., R.A. Herb, S.K. Powers, S.L. Dodd. Diaphragmatic resistance to hyperthyroidism. Med. Sci. Sports Exer. 26(5):S193, 1994. American College of Sports Medicine, Indianapolis, IN, June, 1994

Eason, J.M., S.L. Dodd, S.K. Powers. Antagonism of glucocorticoid-induced dysfunction in rate diaphragm with testosterone. Med. Sci. Sports Exer. 26(5):S193, 1994. American College of Sports Medicine, Indianapolis, IN, June, 1994

Dodd, et al. The effects of intermittent ischemia on skeletal muscle function and myosin heavy chains. The FASEB Journal 8(4): A57, 1994. Exp. Biology, Anaheim, CA

Powers, S.K., D. Criswell, R. Herb, H Demirel, and S. Dodd. Age-related alterations in diaphragmatic contractile properties: Role of connective tissue. and myosin isoforms. The FASEB Journal 8(4):A57, 1994. Exp. Biology, Anaheim, CA

Eason, J.M. & S.L. Dodd. The effects of glucocorticoids on contractile properties of diaphragm muscle. The Annual Meeting of the American Association for Physical Therapy. New Orleans, LA, January, 1994

Husain, R., Herb, R., Criswell, D., Powers, S., Wade, M., Eason, J., Vrabas, I. and Dodd, S. Clenbuterol-induced biochemical alterations in respiratory and locomotor muscle. International Union of Physiological Sciences, Glasgow, Scotland, August, 1993.

Dodd, et al. The effects of clenbuterol on contractile properties of skeletal muscle. Med. Sci. Sports Exer. 25(5):S177, 1993. American College of Sports Medicine, Seattle, WA, June, 1993

Vrabas, S. Dodd, J. Eason, S. Powers. The effects of glucocorticoids on the contractile properties of rat skeletal muscle *in situ*. Med. Sci. Sports Exer. 25(5):S177, 1993. American College of Sports Medicine, Seattle, WA, June, 1993

Eason, J., S. Dodd, I. Vrabas, S. Powers. Glucocorticoid-induced alterations in isotonic contractions of the rat diaphragm. Med. Sci. Sports Exer. 25(5):S177, 1993. American College of Sports Medicine, Seattle, WA, June, 1993

Dodd, et al. The effects of glucocorticoids on contractile function of the diaphragm. The FASEB Journal 7(3) Part I: A222, 1993. Exp. Biology, New Orleans, LA

Dodd, S.L. Muscle Function During Exercise. Winter Program School, YMCA of the USA, New Orleans, LA, March, 1993

With Criswell et al. Biochemical verification of quantitative histochemical analysis of succinate dehydrogenase activity in skeletal muscle fibers. 24(5):S126, 1992. National ACSM, Dallas, TX

With Vrabas. The effects of rate of muscle contraction on O₂ uptake kinetics. Med. Sci. Sports Exer. 24(5):S183, 1992. National ACSM, Dallas, TX

Dodd, et. al. Interaction of Q and O₂ delivery on VO₂max and tension development in contracting skeletal muscle. Med. Sci. Sports Exer. 1992. National ACSM, Dallas, TX

Dodd, et al. Aging and diaphragmatic oxidative and antioxidant enzyme activity. The FASEB Journal 6(5) Part II: A2033, 1992. FASEB, Anaheim, CA

Dodd, S.L., et al. The effects of caffeine on graded exercise performance in caffeine naive vs. habituated subjects. Int. Congress on Sports Med. & Human Performance, Vancouver, B.C., Canada. April, 1991.

With Criswell et. al. Influence of a carbohydrate-electrolyte beverage on blood homeostasis during football. The Physiologist. 33(4):A73, 1990.

With Powers et. al. Interval treadmill training-induced metabolic alterations in respiratory muscles. The Physiologist. 33(4):A74, 1990.

With Powers, et. al. Exercise-induced cellular alterations in respiratory muscles. Med. Sci. Sports Exer. 22(2):S70, 1990. National ACSM, Salt Lake City, Utah

With Baker, et. al. Exercise Hyperpnea is not singularly regulated by carbon dioxide output. Med. Sci. Sports Exer. 22(2):S52, 1990. National ACSM, Salt Lake City, Utah

With Edwards et. al. Physiological and expense implications of PTCA rehabilitation. Med. Sci. Sports Exer. 22(2):S5, 1990. National ACSM, Salt Lake City, Utah

With Powers, et. al. Age related enzymatic changes in the rat diaphragm. The FASEB Journal. 4(3):A292, 1990. FASEB, Washington, D.C., 1990.

Dodd, et. al. The effect of altered PO₂ at constant O₂ delivery on VO_{2max} . The FASEB Journal. 4(3):A1213, 1990. FASEB, Washington, D.C., 1990.

With Stephens et al. Effects of an at-home exercise program on blood chemistry status of dialysis patients. 1990. Southeastern ACSM, Columbia, SC.

With Williams et al. Exercise adherence of hemodialysis patients. 1990. National AAHPER, New Orleans.

With Lawler et al. Fluid replacement drinks during heavy exercise: effects on minimizing exercise-induced disturbances in homeostasis. The Physiologist: 129, 1989. Fall APS, Rochester, MN.

Dodd, et al. Type of contraction affects maximal blood flow and VO₂ in isolated, contracting muscle. The Physiologist. 57, 1989. Fall APS, Rochester, MN

Dodd, et al. Incidence of exercise induced hypoxemia in elite endurance athletes at sea level. Med. Sc. Sports Exer., 20(2):S47, 1988. National ACSM, Dallas.

Dodd, et al. Does pulmonary gas exchange limit VO_{2max}? Southeastern ACSM. Winston-Salem, NC, 1988

With Powers et al. The effects of breathing hyperoxic gas on exercise induced hypoxemia. Med. Sc. Sports Exer. 20(2):S80, 1988. National ACSM, Dallas.

Dodd, et al. The effects of pedaling speed on the ventilation and gas exchange kinetics in the rest-to-work transition. Fed. Proc., 2(4):A520, 1988. FASEB, Las Vegas.

With Powers, et al. Validity of pulse oximetry to estimate %SaO₂ during exercise. Fed. Proc., 2(4):A520, 1988. FASEB, Las Vegas.

With Stork, et al. Distribution of blood flow with polycythemia and increased O₂ demand in hypoxia. Fed. Proc., 2(3):1121, 1987. FASEB, Washington, D.C.

Dodd, et al. The effects of ventilatory work on subsequent exercise performance. Med. Sci. Sports Exer. 19(2):S2, 1987. ACSM, Indianapolis.

With Nelson, et al. Critical O₂ extraction in canine small intestine. Fed. Proc. Spring, 1986. FASEB - St. Louis.

Dodd, et al. Effects of alpha- and beta-adrenergic blockade in the gut during hypoxia. The Physiologist. Fall APS - New Orleans , 1986.

With King, et al. Oxygen delivery to contracting muscle during hypoxic or carbon monoxide hypoxia. The Physiologist. Fall APS - New Orleans, 1986.

With King, et al. Muscle O₂ deficit and debt during hypoxia and two levels of O₂ demand. Fed. Proc. FASEB - St. Louis, 1986.

Dodd, S. and C. King. "Mechanisms of O₂ deficit and debt during exercise and hypoxia: A Symposium" Southeastern American College of Sports Medicine, Athens, GA, 1986

With King, et al. Blood flow and O₂ uptake in working canine muscle during severe hypoxia. The Physiologist. 28(4):305, 1985. Fall APS - Niagara Falls.

Dodd, et al. Mechanisms of intestinal O₂ uptake responses during and after hypoxic hypoxia. The Physiologist. 28(4):305, 1985. Fall APS - Niagara Falls.

Dodd, S. & S. Powers. Effects of beta-adrenergic blockade on ventilation and gas exchange kinetics during exercise. Med. Sc. Sports Exer. 17(2):256, 1985. ASCM - Nashville.

Dodd, S. & S. Powers. Blood lactate removal at various intensities of recovery following supramaximal work. Med. Sci. Sports Exer. 16(2): 121, 1984. ASCM - San Diego.

Dodd, S. and J. Mahurin. "Exercise and Aging: A Symposium" Southeastern American College of Sports Medicine, Gainesville, FL 1983.

Dodd, S. and S. Powers. The kinetics of lactic acid accumulation during graded exercise. National AAHPER - Houston, 1982

EXTERNAL FUNDING

IN REVIEW

“Mechanisms of muscle atrophy during chemical denervation”

Role: PI

Agency: Ispen Pharmaceuticals, Ltd.

Type: Research grant (2009-2011)

Total Costs: \$193,750

Total Directs Costs: \$155000

Submitted: Sept., 2010

FUNDED

Title: Botulinum Neurotoxin Type A: Effects of Differing Formulations on Muscle Function

Agency: Beaufour Ipsen Pharmaceuticals

Type: Research Contract (UF#84667-Ipsen #52120)

Role: PI

Total Cost - \$142,382 Indirect Costs - \$28,476

Dates: 2009-2012

Title: "ROLE OF NF KAPPA B AND FOXO IN THE REGULATION OF MUSCLE ATROPHY GENES AND MUSCLE ATROPHY DURING EXPERIMENTAL CANCER"

Agency: Florida Department of Health

Type: New Investigator, James and Esther King Biomedical Research Program

Role: CoPI

Total Cost - \$373,122 Indirect Costs - \$ 27,639

Dates: 2008 - 2011

Title: "The role of heat shock proteins in skeletal muscle disuse atrophy"

Agency: NIH, NIAMS

Type: Research grant, R03

Role: Mentor

Total Cost - \$219,750 Indirect Costs - \$69,750

Dates: 2008-2010

Title: "Cytokines and expression of atrophy genes following an acute bout of exercise claudication, and in PAD patients"

Agency: American Heart Association, Greater Southeast Affiliate

Type: Research grant, Beginning Grant-in Aid

Role: CoPI (*Funding declined due to funding by another agency*)

Total Cost - \$132,000 Indirect Costs - \$12,000

Dates: 2008-2010

Title: Interdisciplinary Training in Rehabilitation and Neuromuscular Plasticity (NMPT) Program

Agency: National Institutes of Health

Type: T32 Traineeship

Role: Mentor

Total Cost - \$83,088 Indirect Costs – N/A

Dates: 2007 - 2011

"Cytokine-induced muscle atrophy following exercise claudication"

Role: Mentor

Agency: James and Esther King Biomedical Research Program, New Investigator

Type: Research grant (2008-2011)

Total costs: \$373,122

Total direct costs: \$ 345,483

Title: Botulinum Neurotoxin Type A: Effects of Four Different Formulation on Muscle Function

Agency: Beaufour Ipsen Pharmaceuticals

Type: Research Contract (#61912 - DSR#6081005 - Ipsen # 3AR8)

Role: PI

Total Cost - \$136,354 Indirect Costs - \$27,271

Dates: 2006-2008

Title: Comparison of consistency bulk active substance (BAS) batches in the rat.

Agency: Beaufour Ipsen Pharmaceuticals

Type: Research Contract (#64301)

Role: PI

Total Cost - \$137,224 Indirect Costs - \$27,445

Dates: 2007-2009

Title: Comparing Dysport with an Alternative Formulation for Intramuscular Injection and a Topical Formulation Using the Rat Hind Limb Model

Agency: Beaufour Ipsen Pharmaceuticals

Type: Research Contract (#57202-Ipsen # 16Y5)

Role: PI

Total Cost - \$135,951 Indirect Costs - \$27,190

Dates: 2005-2007

Title: Botulinum Neurotoxin Type A: Interaction of Dose and Volume

Agency: Beaufour Ipsen Pharmaceuticals

Type: Research Contract (# 58731-Ipsen # 33P2)

Role: PI

Total Cost - \$103,062 Indirect Costs - \$20,612

Dates: 2005-2007

Title: Effects of Different Formulations of Botulinum Neurotoxin Type A on Muscle Function

Agency: Beaufour Ipsen Pharmaceuticals

Type: Research Contract (# 59928)

Role: PI

Total Cost - \$98,375 Indirect Costs - \$19,325

Title: Reactive oxygen species and antioxidants following an acute bout of exercise claudication

Agency: American Heart Association

Type: Grant-In-Aid (AHA # 0555194B)

Role: PI

Total Cost - \$119,555 Indirect Costs - \$10,877

Dates: 2005-2007

Title: Effects of Various Formulations of Botulinum Neurotoxin A on Muscle Function
Agency: Beaufour Ipsen Pharmaceuticals
Type: Research Contract (# 53794)
Role: PI
Total Cost - \$93,438 Indirect Costs - \$18,688
Dates: 2004-2005

Title: The Effects of Botulinum Neurotoxin A on Muscle Function and Biochemistry
Agency: Beaufour Ipsen Pharmaceuticals
Type: Research Contract (DSR # 3112014)
Role: PI
Total Cost - \$89,349 Indirect Costs - \$17,870
Dates: 2003-2004

Title: Effects of a new strain of botulinum neurotoxin on muscle function
Agency: Beaufour Ipsen Pharmaceuticals
Type: Research Contract (DSR # 4033118)
Role: PI
Total Cost - \$89,202 Indirect Costs - \$17,840
Dates: 2004-2005

Title: Can Local Heat Stress Protect Muscle During Immobilization
Agency: NFLPA Medical Charities
Type: Research Grant (#37398)
Role: PI
Total Cost - \$178,000 Indirect Costs - \$16,182
Dates: 2003-2005

Title: The role of calpains in muscle disuse atrophy
Agency: National Aeronautics and Space Administration
Type: Graduate Fellowship (NASA# HGT5-50443)
Role: Mentor
Total Cost - \$48,000 Indirect Costs - NA
Dates: 2002-2004

Dodd, S.L. The Effects of Botulinum Neurotoxin A on Muscle Function and Biochemistry. Beaufour Ipsen Pharmaceuticals (DSR # 12108).
Total Cost - \$10,646. 2000-2001.

Dodd, S.L. and A. Judge (Co-PI). Oxidative Damage Following Exercise Claudication and associated Contractile Dysfunction. American Heart Association (AHA # 0255169B).
Total Cost - \$119,972. 2002-2004

Dodd, S.L. The dose-response of DYSPORT on muscle function. Beaufour Ipsen Pharmaceuticals (DSR # 99090911).

Total Cost - \$30,400 1999-2000.

Powers, S.K. (PI) and S.L. Dodd (Co-I) Mechanical Ventilation and Respiratory Muscles. National Institutes of Health (NIH # R01 AR47589).

Total Cost - \$1,500,000 2000-2004.

Dodd, S.L. The effects of the DYSPORT on muscle contractile properties.

Total Cost -\$19,463 2000-2001.

Dodd, S.L. and Papin, William. The effects of androstenedione on strength and muscle mass. ISP Nutrition (DSR #20909).

Total Cost -\$6,600. 2000-2001

Stetson, S. and S. Dodd. Alterations in specific tension with hindlimb unweighting.

ACSM / NASA Research Grant.

Total Cost -\$2,219. 1995-1996.

Dodd, S.L. The effects of the botulinum neurotoxin on muscle contractile properties on limb muscle. Speywood Laboratories, Inc.

Total Cost -\$10,000 1994-1995.

Dodd, S.L. Muscle contractile properties of rat tibialis anterior and extensor digitorum longus: a pilot study. Speywood Laboratories, Inc.

Total Cost - \$19,000 1994-1995.

Eason, J. and S.L. Dodd. Glucocorticoid-induced diaphragm myopathy: effects on Ca²⁺ sensitivity of single fibers. Foundation for Physical Therapy.

Total Cost -\$11,000 1994-1995.

Eason, J. and S.L. Dodd. Glucocorticoid-induced diaphragm myopathy: cellular alterations and role of anabolic steroids as an antagonist. Foundation for Physical Therapy. Total Cost - \$12,000 1993-1994.

Powers, S.K. & S.L. Dodd. The effects of hypothyroidism on muscle function.

American Lung Association-Florida Affiliate.

Total Cost - \$49,187. 1993-1994.

Dodd, S.L. & S.K. Powers. Glucocorticoid-induced diaphragm myopathy: cellular alterations and role of anabolic steroids as an antagonist. University of Florida Department of Sponsored Research.

Total Cost -\$22,500. 1992-1993.

Dodd, S.L. Establishment of *in vitro* muscle physiology laboratory. Department of Sponsored Research (UF) Equipment Grant.

Total Cost - \$6,000. 1991-1992.

Dodd, S., R. Magill & A. Lee. Enhancement of the Kinesiology Body of Knowledge. Proposal to the state Board of Regents for equipment.
Total Cost - \$388,000 1990-1993.

Beadle, R., Guthrie, A. & Dodd, S. Airway disease in horses.
Total Cost - \$34,000. 1989-1991.

Powers, S. & S. Dodd. Ross Laboratories - Proposal to study the effects of fluid and electrolyte replacement during prolonged, intermittent anaerobic work.
Total Cost - 18,500. 1989-1990

Dodd, S. - International Coffee Organization - Proposal to study the effects of caffeine on VO₂max and the anaerobic threshold during graded exercise.
Total Cost -\$17,500. 1989-1990

Dodd, S., Powers, S. & P. Crawford. - American Heart Association - Proposal to study peripheral oxygen diffusion limitations in isolated, contracting muscle.
Total Cost - \$13,200. 1988-1989.

Dodd, S. and S. Powers. Novamatrix, Inc. Equipment grant awarded to study the validity of transcutaneous PO₂ and PCO₂ monitoring during exercise.
Total Cost - \$14,000. 1997-1998.

Powers, S. and S. Dodd. Ross Laboratories. Awarded to study the effects of carbohydrate polymer ingestion on the short-term endurance performance.
Total Cost - \$14,500. 1987-1988.

Dodd, S. L. Summer Research Grant - L.S.U. Awarded to study the effects of ventilatory work on subsequent exercise performance.
Total Cost - \$4000. 1987-1988.

Powers, S. and S. Dodd. Baton Rouge General Hospital, Equipment Grant. Awarded to establish a metabolic testing laboratory.
Total Cost - \$65,000. 1987.

Powers, S. and S. Dodd. Ohmeda, Inc. Awarded to study the validity of ear oximetry during exercise.
Total Cost - \$8,500. 1987-1988.