

CURRICULUM VITAE, Academic

Russell Lewis Moore, Ph.D.

Professor of Integrative Physiology

Adjunct Professor of Medicine (Cardiology, UCHSC Denver)

BUSINESS ADDRESS:

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ACADEMIC BUSINESS ADDRESS

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EDUCATION: DATE INSTITUTION DEGREE FIELD OF STUDY

02/79 - 02/82	Washington State University	Ph.D.,	Physiology
09/76 - 02/78	Washington State University	M.S.,	Physiology
09/71 - 06/76	University of California @ Davis	B.S.,	Biochemistry

PROFESSIONAL TRAINING AND EXPERIENCE:

2010-Present	Provost and Executive Vice Chancellor for Academic Affairs, University of Colorado, Boulder (Oct 13, 2010 - present)
2010	Interim Provost and Executive Vice Chancellor for Academic Affairs, University of Colorado, Boulder (July 01, 2010 to Oct 12, 2010)
2009-2010	Interim Vice Chancellor for Research, University of Colorado, Boulder (May 15, 2009-June 30, 2010)
2006-2009	Associate Vice Chancellor for Research, University of Colorado, Boulder
1996-present	Professor, Department of Integrative Physiology, University of Colorado, Boulder, CO; Adjunct Professor of Medicine (Cardiology), UCHSC, Denver, CO
1994-2001	Chair, Department of Kinesiology & Applied Physiology, University of Colorado, Boulder, CO
1993-1996	Associate Professor, Department of Kinesiology, University of Colorado, Boulder, CO; Adjunct Associate Prof. of Medicine, UCHSC
1991-1993	Associate Professor (tenured), Departments of Medicine & Cellular and Molecular Physiology, The Pennsylvania State University College of Medicine, Hershey, PA (received tenure 07/01/91)
1986-1991	Assistant Professor, Departments of Medicine & Cellular and Molecular Physiology, The Pennsylvania State University College of Medicine, Hershey, PA
1984-1986	Assistant Professor, Department of Kinesiology, University of Colorado, Boulder, CO
1981-1984	Postdoctoral Fellow, Department of Pharmacology, University of Texas Health Science Center, Dallas, TX (Dr. J.T. Stull, supervisor)
1976-1981	Graduate Teaching and Research Assistant, Washington State University, Pullman, WA (Dr. P.D. Gollnick, supervisor)
1974-1976	Undergraduate Research Assistant, Department of Biochemistry and

Biophysics, University of California @ Davis, Davis, CA (Dr. I.H. Segel, supervisor).

PROFESSIONAL MEMBERSHIPS: American Physiological Society, American Heart Association

ACADEMIC AND PROFESSIONAL AWARDS, HONORS & SERVICE:

Academic and Professional Awards and/or Honors

2006	Paul Mole Memorial Lecturer, University of California at Davis
2003	Gollnick Tutorial Lecturer, American College of Sports Medicine (ACSM), National
1987	American College of Sports Medicine New Investigator Award
1985-1986	University of Colorado CRCW Junior Faculty Development Award
1984	Cardiology Research Fellow, University of Texas Hlth Sci Ctr, Dallas
1982-1984	NIH Individual National Research Service Award (F32-GM 09275)
1981-1982	NIH Postdoctoral Training Fellowship (HL 07360-04)
1979-1981	Graduate Research Assistantship (HL 19527-04)
1975-1976	Undergraduate Research Assistantship, University of California, Davis
1975	CalBiochem Undergraduate Research Award

Professional Service

2013-present	APLU CAA Executive Committee Representative to the Commission on Innovation, Competitiveness, and Economic Prosperity
2012-present	Elected to serve on the APLU Council on Academic Affairs (CAA) Executive Committee
2009-2010	Board Member, Alliance for Sustainable Energy, M&O, National Renewable Energy Laboratory, Golden, CO; Member, Executive Advisory Committee, NREL Science and Technology
2008-2010	Board Member, CO-LABS, Federal labs located in CO; elected to be Secretary in 2010.
2009-2010	Executive Board Member, Colorado Renewable Energy Collaboratory
2009-present	Executive Board Member, Renewable and Sustainable Energy Institute (RASEI), and joint institute between NREL and CU Boulder
2008-present	Member, External Advisory Committee for NIH INBRE (Idea Networks for Biomedical Research Excellence) award to the University of Wyoming
2007-2009	Institutional Coordinator, Colorado Renewable Energy Collaboratory
1995-2008	Associate Editor, <i>Journal of Applied Physiology</i>
2004	External Program Reviewer, School of Kinesiology, University of Western Ontario
2001-2005	Member, External Advisory Committee for NIH Center of Biomedical Research Excellence (COBRE) award to the University of Wyoming (P20 RR15640 " <i>Cellular responses to stressors of cardiovascular health</i> ").
1998	External Program Reviewer, Exercise and Sports Science Program, University of Iowa

1998-2007 Member, Board of Governors, University of Colorado Cardiovascular Institute

Grant and Manuscript Review

2009 PHS (NIH) *ad hoc* reviewer for R24 (animal models) program

2007-2008 AHA Integrative and Regulatory Biology Grant Review section, *ad hoc* reviewer

2004-2007 AHA Integrative and Regulatory Biology Grant Review section, regular member

2006 Israel Science Foundation, Grant Review

2005-2006 PHS (NIH) *ad hoc* member of the Electrophysiology, Signal Transduction, and Arrhythmia (ESTA) Review Group

2004-2006 Member of the AHA Integrative Cardiovascular Biology Review Group

2004 PHS (NIH) *ad hoc* member of the Special Emphasis Panel/Initial Review Group 2005/01 ZRG1 F10 (20) (L)

2002-2004 PHS (NIH) *ad hoc* member of the ZRG1 Study Section, a Special Emphasis Panel of the Geriatrics and Rehabilitative Medicine Study Section

1995-1999 PHS (NIH) regular member of the Respiratory and Applied Physiology Study Section.

1994 PHS (NIH) *ad hoc* member of the Respiratory and Applied Physiology Study Section.

1990-1994 Appointed to Southeastern Pennsylvania Peer Review Committee; Grant Reviewer for The American Heart Association, Southeastern PA Affiliate

1992 *Ad Hoc* reviewer for National Institute of Drug Abuse, Drug Abuse Biomedical Review Committee, Pharmacology II Subcommittee

1989-1993 Grant Reviewer for the National Sciences and Engineering Research Council of Canada (NSERC)

1987 Invited Grant Reviewer for the Canadian Heart Association

1987-present Invited Reviewer for *Journal of Physiology (London)*, *American Journal of Physiology (Cell Physiology)*, *American Journal of Physiology (Endocrinology and Metabolism)*, *American Journal of Physiology (Lung Cellular and Molecular Physiology)*, *American Journal of Physiology (Heart and Circulatory Physiology)*, *The FASEB Journal*, *Journal of Applied Physiology*, *Med. Sci. Sports and Ex.*

RESEARCH GRANTS AWARDED AND PENDING REVIEW:Awarded (active)

2008-2013 PHS UL1 RR025780 "Colorado Clinical and Translational Science Institute (UCB Subcontract, CTSA)" **R.L. Moore, P.I. Boulder subcontract**; \$5,643,685 (5 yr DC); 05/19/2008 – 09/30/2010. The PI role was transferred to VC Research **Stein Sture** in 2010.

Awarded (completed)

2007-2010 American Heart Association: Pacific Mountain Affiliate "Abnormal cardiolipin biosynthesis contributes to the development of heart failure"; **R.L. Moore, P.I.**; \$180,000 (3 yr DC); 7/1/07 – 6/30/10.

2004-2010 PHS RO1 HL 72790-05 "Exercise training and myocardial K_{ATP} channel function"; **R.L. Moore, P.I.**; \$700,000 (DC); 4/1/04 – 3/31/10.

(2002-2007) PHS Training Grant NIH T32 AG00279 Doctoral/Postdoctoral Training "UCHSC Aging Training Grant", **R. Schwartz, P.I.**; R. Moore, Co-I; \$216,460 (1 yr DC); 07/01/03 to 06/30/07.

(2001-2006) PHS RO1 HL 40306-15 "Exercise training and the myocardium: Cellular adaptations"; **R.L. Moore, P.I.**; \$800,000 (DC); 6/1/01 - 03/31/06.

(1999-2003) PHS RO1 AG13981-03 "Myocardial adaptations to advanced age and exercise", **R.L. Moore, P.I.**; \$435,769 (DC); 5/1/99 - 4/31/03.

(1998-2000) PHS RO3 AG15594-01 "Aging and cardiocyte mitochondrial Ca^{2+} handling in situ", **R.L. Moore, P.I.**; \$50,000 (D.C.); 02/01/98 to 01/31/00.

(1997-1999) American Heart Association: Colorado/Wyoming Affiliate "Hypertension and alpha-1 adrenergic inotropy in rat heart", **R.L. Moore, P.I.**; \$60,000 (D.C.); 07/01/97 to 06/30/99.

(1993-1999) PHS RO1 HL 44146-09 "Hypertension: Training-induced increase in work capacity"; **R.L. Moore, P.I.**; \$498,925 (D.C.); 5/1/93 - 4/31/99.

(1993-1998) PHS RO1 HL 40306-08 "Exercise training and the myocardium: Cellular adaptations"; **R.L. Moore, P.I.**; \$616,486 (DC); 1/1/93 - 12/31/98.

(1990-1993) PHS 1 RO1 44146-01; "Hypertension: Training-induced increase in work capacity"; **R.L. Moore, P.I.**; \$298,307 (D.C.); 5/1/90 - 4/31/93.

(1990-1992) PHS 1 RO1 HL 40306-01; "Exercise training and the myocardium: Cellular adaptations"; **R.L. Moore, P.I.**; \$362,013 (DC); 1/1/90 - 12/31/92.

(1990-1991) American Heart Association Affiliate/Chapter Grant-in-Aid, "Depressed Ca^{2+} -dependent functional autoregulation in hypertrophied rat heart: Reversal by exercise training?", **R.L. Moore, P.I.**; \$22,000 (DC)

(1989-1990) American Federation for Aging Research, "Adaptations of senescent myocardium to training", **R.L. Moore, P.I.**; \$30,000 (DC)

(1989-1990) American Heart Association Affiliate/Chapter Grant-in-Aid, "Sarcolemmal Adaptations to Myocardial Infarction", **R.L. Moore, P.I.**; \$20,000 (DC)

(1988-1989) American Heart Association Affiliate/Chapter Grant-in-Aid, "Myosin light chain phosphorylation in rat papillary muscle", **R.L. Moore, P.I.**; \$18,000 (DC)

(1986) University of Colorado CRCW Grant-in-Aid; \$12,000 (DC)

(1982-1984) NIH Individual National Research Service Award #1-F32-GM09275

PUBLICATIONS (referreed)

Research Articles

1. Gollnick, PD, BF Timson, RL Moore, and M Riedy. Muscular enlargement and number of fibers in skeletal muscle of rats. *J. Appl. Physiol.* 50:936-943, 1981.
2. Moore, RL, and PD Gollnick. Response of ventilatory muscle of the rat to endurance training. *Pflugers Arch.* 392:268-271, 1982.
3. Moore, RL, M Riedy, and PD Gollnick. Effect of training on β -adrenergic receptor number in rat heart. *J. Appl. Physiol.* 52:1133-1137, 1982.
4. Parsons, DB, M Riedy, RL Moore, and PD Gollnick. Acute fasting and fiber number in rat soleus muscle. *J. Appl. Physiol.* 53:1234-1238, 1982.
5. Gollnick, PD, DB Parsons, M. Riedy, and RL Moore. Fiber number and size in overloaded chicken anterior latissimus dorsi muscle. *J. Appl. Physiol.* 54:1292-1297, 1983.
6. Moore, RL, and JT Stull. Myosin light chain phosphorylation in fast and slow skeletal muscle in situ. *Am. J. Physiol.* 247:C471-C478, 1984.
7. Stull, JT, MH Nunnally, RL Moore, and DK Blumenthal. Myosin light chain kinases and myosin phosphorylation in skeletal muscle. *Adv. Enz. Reg.* 23:123-140, 1985.
8. Parsons, DB, TI Musch, RL Moore, GC Haidet, and GA Ordway. Dynamic exercise training in foxhounds. II. Biochemical and histochemical analysis of skeletal muscle. *J. Appl. Physiol.* 59:190-197, 1985.
9. Moore, RL, MH Houston, GA Iwamoto, and JT Stull. Phosphorylation of rabbit skeletal muscle P-light chain in situ. *J. Cellular Physiol.* 125:301-305, 1985.
10. Riedy, M, RL Moore, and PD Gollnick. Adaptive response of hypertrophied skeletal muscle to endurance training. *J. Appl. Physiol.* 59:127-131, 1985.
11. Musch, TI, RL Moore, DL Leathers, and R. Zelis. Endurance training in rats with chronic heart failure induced by myocardial infarction. *Circulation* 74:431-441, 1986.
12. Moore, RL, EM Thacker¹, GA Kelley, TI Musch, LI Sinoway, VL Foster, and AL Dickinson. The effect of training/detraining on submaximal exercise responses in humans. *J. Appl. Physiol.* 63:1719-1724, 1987.
13. Musch, TI, RL Moore, M Riedy, P Burke¹, R Zelis, ME Leo¹, A Bruno¹, and GE Bradford¹. Glycogen concentrations and endurance capacity of rats with chronic heart failure. *J. Appl. Physiol.* 64:1153-1159, 1988.
14. Musch, TI, RL Moore, MR Hilty¹, and R. Zelis. The effects of dynamic exercise training on the metabolic and cardiocirculatory responses to exercise in the rat model of myocardial infarction and heart failure. *Am. J. Cardiol.*, 62:20E-24E, 1988.
15. Musch, TI, A Bruno¹, GE Bradford¹, and RL Moore. Measurement of metabolic rate in rats: A comparison of techniques. *J. Appl. Physiol.* , 65(2):964-970, 1988.
16. Moore, RL, MR Hilty¹, and TI Musch. The effects of aortic artery catheterization on tissue glycogen content. *J. Appl. Physiol.* , 65(6):2752-2756, 1988.
17. Musch, TI, RL Moore, M Riedy, PG Smaldone¹, and R Zelis. Cardiac adaptations to endurance training in rats with a chronic myocardial infarction. *J. Appl Physiol.*, 66(2):712-719, 1989.
18. Hilty¹, MR, H. Groth, RL Moore, and TI Musch. Determinants of VO_{2max} in rats following high intensity sprint training. *J. Appl. Physiol.*, 66(1):195-201, 1989.

19. Musch, TI, BS Warfel¹, RL Moore, and D.R. Larach. Anesthetic effects on liver and muscle glycogen concentrations: Rest and post-exercise. *J.Appl.Physiol.*, 66:2895-2900, 1989.
20. Pawlush³, DG, TI Musch, and RL Moore. Ca²⁺-dependent heterometric and homeometric autoregulation in hypertrophied rat heart. *Am. J. Physiol.*, 256(25):H1139-H1147, 1989.
21. Palmer¹, BM and RL Moore. Myosin light chain phosphorylation and tension potentiation in mouse skeletal muscle. *Am. J. Physiol.:Cell Physiol.*, 257(26):C1012-C1019, 1989.
22. Zelis, R, and RL Moore. Recent insights into the calcium channels. *Circulation* 80:IV14-IV16, 1989.
23. Moore, RL, and A Persechini. The length-dependence of isometric twitch tension potentiation and myosin phosphorylation in mouse skeletal muscle. *J. Cell. Physiol.*, 143(2):257-262, 1990.
24. Moore, RL, BP Palmer¹, SL Williams¹, H Tanabe¹, L Gomer¹, R Grange¹, and ME Houston. The temperature dependence of P-light chain phosphorylation-dephosphorylation in skeletal muscle. *Am. J. Physiol.:Cell Physiol.*, 259(28):C432-C438, 1990.
25. Moore, RL, RV Yelamarty, H Misawa, RC Scaduto, Jr., DG Pawlush³, MB Elensky, and JY Cheung. Altered Ca²⁺ dynamics in single cardiac myocytes from renovascular hypertensive rats. *Am. J. Physiol.:Cell Physiol.*, 260(29):C327-C337, 1991.
26. Yelamarty, RV, FTS Yu, RL Moore, and JY Cheung. LCTV based optical-digital processor for measurement of shortening velocity in single rat heart cells. *S.P.I.E. Proceedings* 1398:170-179, 1991.
27. Yelamarty, RV, RL Moore, F.T.S. Yu, M Elensky, AM Semanchick, and JY Cheung. Relaxation abnormalities in single cardiac myocytes from renovascular hypertensive rats. *Am. J. Physiol.:Cell Physiol.*, 262(31):C980-C990, 1992.
28. Musch, TI, CT Nguyen¹, HV Pham¹, RL Moore. Training effects on the regional blood flow response to exercise in myocardial infarcted rats. *Am.J.Physiol.*, 262:H1846-H1852, 1992.
29. Sinoway, LI, KJ Wroblewski, SA Prophet, SM Ettinger³, KS Gray, SK Whisler, G Miller, and RL Moore. Glycogen depletion-induced lactate reductions attenuate reflex responses in exercising humans. *Am.J.Physiol.* 263 (Heart Circ. Physiol. 32), H1499-H1505, 1992.
30. Moore, RL, TI Musch, RV Yelamarty, RC Scaduto, Jr, AM Semanchick, M Elensky, and JY Cheung. Chronic exercise alters contractility and morphology of isolated rat cardiac myocytes. *Am.J.Physiol.*264 (Cell Physiol. 33), C1180-C1189, 1993.
31. Pawlush, DG, RL Moore, TI Musch, and Davidson, Jr., WR, . Echocardiographic determination of size, function, and mass of normal and hypertrophied rat ventricles. *J. Appl. Physiol.* 74(5):2598-2605, 1993.
32. Cheung, JY, TI Musch, H Misawa, AM Semanchick, M Elensky, RV Yelamarty, and RL Moore. Impaired cardiac function in rats with healed myocardial infarction: cellular vs. myocardial mechanisms. *Am.J.Physiol.*266:(Cell Physiol. 35) , C29-C36, 1994.
33. Book¹, C-B, RL Moore, A Semanchick, and Y-C Ng. Cardiac hypertrophy alters expression of Na⁺K⁺-ATPase subunit isoforms at mRNA and protein levels in rat myocardium. *J. Molec. Cell. Cardiol.* 26:591-600, 1994.
34. Sinoway, LI, M.B. Smith, B. Enders, U. Luenberger, T. Dzwoncyck, K. Gray, S. Whistler, and R.L. Moore. Role of diprotonated phosphate in evoking muscle reflex responses in cats and humans. *Am.J.Physiol.:Heart Circ. Physiol.*, 267(36):H770-H778, 1994.
35. Zhang, X-Q, RL Moore, T TenHave, and JY Cheung. Ca²⁺ transients in hypertensive and post-infarction myocytes. *Am. J. Physiol.:Cell Physiol.*, 269(38):C632-C640, 1995.
36. Zhang, X-Q, RL Moore, T TenHave, and JY Cheung. Ca²⁺ currents in post-infarction cardiac myocytes. *Am. J. Physiol.:Cell Physiol.*, 269(38):C1464-C1473, 1995.

37. Korzick¹, DH, and RL Moore. Chronic exercise enhances cardiac α -1-adrenergic inotropic responsiveness in rats with mild hypertension. Am. J. Physiol.:Heart Circ. Physiol., 271(4):H2599-H2608, 1996.
38. Zhang, X-Q, DL Tillotson, RL Moore, R Zelis, and JY Cheung. Na^+ - Ca^{2+} exchange currents and SR Ca^{2+} contents in post-infarction myocytes. Am. J. Physiol.:Cell Physiol. 271(40):C1800-C1807, 1996.
39. Stauffer¹, BL, BM Palmer, A Hazel, JY Cheung, RL Moore. Hypertension alters rapid cooling contractures in single rat cardiocytes. Am. J. Physiol.:Cell Physiol., 272(41):C1000-C1006, 1997.
40. Mokolke, EA, BM Palmer, JY Cheung, and RL Moore. Effect of training on inward Ca^{2+} current characteristics in isolated left ventricular myocytes. Am.J.Physiol.:Heart Circ. Physiol., 273(42):H1193-H1197, 1997.
41. Zhang, X-Q, Y-C Ng, TI Musch, RL Moore, R Zelis and JY Cheung. Sprint training attenuates myocyte hypertrophy and improves Ca^{2+} homeostasis in postinfarction myocytes. Journal of Applied Physiology, 84(2):544-552, 1998.
42. Tardiff, JC, SM Factor, BD Tompkins, TE Hewitt, BM Palmer, RL Moore, S Schwartz, J Robbins, LA Leinwand. A truncated cardiac troponin T molecule in transgenic mice suggests multiple cellular mechanisms for familial hypertrophic cardiomyopathy. Journal of Clinical Investigation, 101(12):2800-2811, 1998.
43. Lankford, EB, DH Korzick¹, BM Palmer, BL Stauffer¹, JY Cheung, and RL Moore. Endurance exercise alters the contractile responsiveness of rat heart to extracellular Na^+ and Ca^{2+} . Med. Sci. Sports Exerc., 30(10):1502-1509, 1998.
44. Palmer, BM, AM Thayer³, SM Snyder¹, and RL Moore. Shortening and $[\text{Ca}^{2+}]$ dynamics of left ventricular myocytes isolated from exercise trained rats. J. Appl. Physiol., 85(6):2159-2168, 1998.
45. Palmer, BM, JM Lynch, SM Snyder¹, and RL Moore. Effects of run training on sodium-dependent Ca^{2+} efflux from rat left ventricular myocytes. J. Appl. Physiol. , 86(2):584-591, 1999.
46. Noble E. G., A. Moraska¹, R.S. Mazzeo, D.A. Roth, M.C. Olsson¹, R.L. Moore, and M. Fleshner. Differential expression of stress protein in rat myocardium following free wheel or treadmill run training. Journal of Applied Physiology, 86(5):1696-1701, 1999.
47. Tardiff, JC, TE Hewett, BM Palmer, MC Olsson¹, SM Factor, RL Moore, J Robbins, and LA Leinwand. Pathogenesis of hypertrophic cardiomyopathy: Cardiac troponin T mutations result in allele-specific phenotypes. Journal of Clinical Investigation, 104(4):469-481, 1999.
48. Zhang, X-Q, Y-C Ng, RL Moore, TI Musch, and JY Cheung. In situ SR function in postinfarction myocytes. J. Appl. Physiol. 87(6):2143-2150, 1999.
49. Palmer, BM, MC Olsson¹, JM Lynch, LC Mace, SM Snyder¹, S Valent³, and RL Moore. Chronic run training suppresses alpha-adrenergic responsiveness of rat cardiomyocytes and left ventricle. Am.J.Physiol.:Heart Circ. Physiol., 277:H2136-H2144, 1999.
50. Snyder¹, SM, BM Palmer, and RL Moore. A mathematical model of cardiocyte Ca^{2+} dynamics with a novel representation of sarcoplasmic reticular Ca^{2+} control. Biophysical J. 79(1):94-115, 2000.
51. Zhang, L-Q, X-Q Zhang, Y-C Ng, LI Rothblum, TI Musch, RL Moore, and JY Cheung. Sprint training normalized Ca^{2+} transients and SR function in postinfarction myocytes. Journal of Applied Physiology, 89:38-46, 2000.
52. Zhang, L-Q, X-Q Zhang, TI Musch, RL Moore, and JY Cheung. Sprint training restores normal contractility in postinfarction myocytes. Journal of Applied Physiology, 89:1099-1105, 2000.

53. Palmer, BM and RL Moore. Excitation wavelengths for fura 2 provide a linear relationship between $[Ca^{2+}]$ and fluorescence ratio. Am. J. Physiol. Cell Physiol. 279:C1278-C1284, 2000. [PMID: 11003608]
54. Freeman¹, K, C Colon-Rivera, MC Olsson¹, RL Moore, HD Weinberger, IL Grupp, KL Vikstrom, G Iaccarino, WJ Koch, and LA Leinwand. Progression from hypertrophic to dilated cardiomyopathy in transgenic mice that express a mutant myosin. Am.J.Physiol.Heart Circ. Physiol, 280:H151-H159, 2001. [PMID: 11123229]
55. Olsson¹, M.C. ,B.M. Palmer, L.A. Leinwand, and R.L. Moore. Gender and aging in a transgenic model of hypertrophic cardiomyopathy. Am.J.Physiol.:Heart Circ. Physiol., 280:H1136-H1144, 2001. [PMID: 11179057]
56. Zhang, X.-Q., L.-Q Zhang,, B.M. Palmer, Y.-C. Ng, T.I. Musch, R.L. Moore, and J.Y. Cheung. Sprint training shortens prolonged action potential duration in postinfarction rat myocyte: mechanisms. J. Appl. Physiol. 90: 1720-1728, 2001. [PMID: 11299261]
57. Jew¹, K.N., M.C. Olsson¹, E.A. Mokolke¹, B.M. Palmer, and R.L. Moore. Endurance training alters outward K^+ current characteristics in rat cardiocytes. J. Appl. Physiol., 90:1327-1333, 2001. [PMID: 11247931]
58. Palmer, B.M., J.M. Lynch, S.M. Snyder¹, and R.L. Moore. Renal hypertension prevents run training modification of cardiomyocyte diastolic Ca^{2+} regulation in male rats. J. Appl. Physiol. 90: 2063-2069, 2001. [PMID: 11356766]
59. Jew¹, K.N. and R.L. Moore. Glibenclamide improves post-ischemic recovery of myocardial contractile function in trained and sedentary rats. J. Appl. Physiol. 1545-1554, 2001. [PMID: 11568135]
60. Jew¹, K.N. and R.L. Moore. Exercise training alters an anoxia-induced, glibenclamide-sensitive current in rat ventricular cardiocytes. J. Appl. Physiol. 92:1473-1479, 2002. [PMID: 11896012]
61. Ng, Y-C, M. Nagarajan, K.N. Jew¹, L.C. Mace¹, and R.L. Moore. Exercise training differentially modifies age-associated alteration in expression of Na^+,K^+ -ATPase subunit isoforms in rat skeletal muscles. Am J Physiol Regulatory Integrative Comp Physiol, 285: R733-R740, 2003. [PMID: 12805093]
62. Palmer, B.M., E.A. Mokolke¹, A.M. Thayer³, and R.L. Moore Mild renal hypertension alters run training effects on the frequency response of rat cardiomyocyte mechanics. J. Appl. Physiol., 95: 1799–1807, 2003. [PMID: 12857770]
63. Mace¹, L.C., B.M. Palmer, D.A Brown¹, K.N. Jew¹, J.M. Lynch, J.M. Glunt², T.A. Parsons¹, J.Y. Cheung, and R.L Moore. Influence of age and run training on cardiac Na^+-Ca^{2+} exchange. J Appl Physiol, 95:1994-2003, 2003. [PMID: 12882992]
64. Brown¹, D.A., K.N. Jew¹, G.C. Sparagna, T.I. Musch, and R.L. Moore. Exercise training preserves coronary flow and reduces infarct size following ischemia-reperfusion in rat heart. J. Appl. Physiol, 95:2510-2518, 2003. [PMID: 12937028]
65. Olsson¹, M.C., B.M. Palmer, B.L. Stauffer³, L.A. Leinwand, R.L. Moore. Morphological and functional alterations in ventricular myocytes from male transgenic mice with hypertrophic cardiomyopathy. Circ. Res., 94:201-207, 2004. [PMID: 14670849]
66. Brown¹ D.A. J.M. Lynch, C.J. Armstrong¹, N.M. Caruso², L.B. Ehlers², M.S. Johnson², and R.L. Moore. Susceptibility of the heart to ischaemia-reperfusion injury and exercise-induced cardioprotection are sex-dependent. J. Physiol. (Lond.), 564: 619-630, 2005. [PMID: 15718263]

67. Sparagna, G.C., C. Johnson², S.A. McCune, R.L. Moore, and R.C. Murphy. Quantitation of cardiolipin molecular species in spontaneously hypertensive heart failure rats using electrospray ionization mass spectrometry. *J. Lipid Res.*, 46:1196-1204, 2005. [PMID: 15772420]
68. Reis, J., L. Zhang, S. Cala, K.N. Jew¹, L. Mace¹, L. Chung, R.L. Moore, and Y.-C. Ng. Expression of phospholemman and its association with Na⁺,K⁺-ATPase in skeletal muscle: effects of aging and exercise training. *J. Appl. Physiol.*, 99(4): 1508-15, 2005. [PMID: 15961612]
69. Emter¹, C.A., S.A. McCune, G.C. Sparagna, M.J. Radin, and R.L. Moore. Low-intensity exercise training delays the onset of decompensated heart failure in the spontaneously hypertensive heart failure (SHHF) rat. *Am. J. Physiol. Heart Circ Physiol.*, 289:H2030-H2038, 2005. [PMID: 15994855]
70. Brown¹, D.A., A.J. Chicco¹, K.N. Jew¹, M.S. Johnson², J.M. Lynch, P.A. Watson, and R.L. Moore. Cardioprotection afforded by chronic exercise is mediated by the sarcolemmal, and not the mitochondrial, isoform of the K_{ATP} channel in the rat. *J. Physiol. (Lond.)*, 569(3):913-924, 2005. [PMID: 16223762]
71. Spangenburg, E.E., D.A. Brown¹, M.S. Johnson², and R.L. Moore. Exercise increases SOCS-3 expression in skeletal muscle: potential relationship to IL-6 expression. *J. Physiol. (Lond.)*, 572(3):839-848, 2006. [PMID: 16484300]
72. Nadeau, K., L. Ehlers², L. Aguirre, R.L. Moore, K.N. Jew¹, H. Ortmeyer, B. Hansen, J. Reusch, and B. Draznin. Exercise training and calorie restriction increase SREBP-1 expression and intramuscular triglyceride in skeletal muscle. *Am. J. Physiol. Endocrinol. Metab.*, 291:E90-E98, 2006. [PMID: 16449296]
73. Johnson², M.S., R.L. Moore, and D.A. Brown¹. Sex-differences in myocardial infarct size are abolished by sarcolemmal K_{ATP} channel blockade in rat. *Am. J. Physiol. Heart Circ Physiol.*, 290:H2644-H2647, 2006. [PMID: 16473955]
74. Chicco, AJ, MS Johnson², CJ Armstrong¹, JM Lynch, RT Gardner², GS Fasen², CP Gillenwater², and RL Moore. Sex-specific and exercise-acquired cardioprotection are abolished by sarcolemmal K_{ATP} channel blockade in the rat heart. *Am. J. Physiol. Heart Circ Physiol.*, 292: H2432-H2437, 2007. [PMID: 17237239]
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82. Edwards¹, A.G., M.L. Rees², R.A. Gioscia², D.K. Zachman², J.M. Lynch, J.C. Browder², A.J. Chicco³, and R.L. Moore. PKC-permitted elevation of sarcolemmal KATP concentration may explain female-specific resistance to myocardial infarction. *J Physiol* 587.23:5723-5737, 2009. [PMID: 19805744]
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85. Edwards¹, AG, AJ Donato³, LA Lisniewski³, RA Gioscia², DR Seals, and RL Moore. Life-long caloric restriction elicits pronounced protection of the aged myocardium: a role for AMPK. *Mechanisms of Ageing and Development* 131:739-742, 2010. [PMID: 20934448]
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Invited Reviews/Editorials/Book Chapters (refereed)

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91. Gollnick, PD, RL Moore, and M Riedy. Muscular Enlargement. In: Metabolic and Functional Changes During Exercise. Ed. by B. Semiginovsky and S. Tucek. Charles University, 1982.
92. Gollnick, PD, RL Moore, M Riedy, and JJ Quintinskie. Significance of skeletal muscle oxidative enzyme changes with endurance training and detraining. In: Medicine and Sports Science, Vol. 17, pp. 215-229, 1984. Ed. by P Marconet, J Poortsman, and L Hermansen. Karger, Basel.

93. Stull, JT, A Persechini, R Cooke, RL Moore, and MH Nunnally. Myosin phosphorylation in skeletal muscle: Regulation and function. *Adv. Prot. Phosphatases* II:19-36, 1985.
94. Moore, RL, TI Musch, and JY Cheung. Modulation of cardiac contractility by myosin light chain phosphorylation. *Med. Sci. Sports Exerc.*, 23(10):1163-1169, 1991.
95. Moore, RL and DH Korzick³. Cellular adaptations of the myocardium to chronic exercise training. *Progress in Cardiovascular Diseases*, Vol. XXXVII, No. 6 (May/June):1-26, 1995.
96. Moore, RL. Cellular adaptations of the heart muscle to exercise training. *Annals of Medicine*, 30(Suppl. 1):46-53, 1998.
97. Moore, RL and BM Palmer. Exercise training and cellular adaptation of normal and diseased hearts. *Exercise and Sports Sciences Reviews*, Vol. 27 (1999), JO Holloszy, ed., Lippincott Williams & Wilkins, New York.
98. Moore, RL. The Cardiovascular System: Cardiac Function (Chapter 13), pp. 326-342. *ACSM's Advanced Exercise Physiology*, (2005), CM Tipton ed., Lippincott Williams & Wilkins, New York.
99. Moore, RL. Myocardial KATP channels are critical to Ca²⁺ homeostasis in the metabolically stressed heart *in vivo*. *Am. J. Physiol. Heart Circ Physiol.*, 292: H1692 - H1693, 2007 (editorial) [PMID: 17259443]
100. Brown³, DA, and RL Moore. Perspectives in innate and acquired cardioprotection: cardioprotection acquired through exercise. *J. Appl. Physiol.* 103:1894-1899, 2007. [PMID: 17556492]
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102. Frasier¹, C, RL Moore, and DA Brown. Exercise-induced cardiac preconditioning: How exercise protects your achy-breaky heart. *J. Appl. Physiol.* 111:905-915, 2011. [PMID: 21393468]
103. Brown, DA, and RL Moore. The Cardiovascular System: Cardiac Function (Chapter 10), pp 313-331. *ACSM's Advanced Exercise Physiology (2011) 2nd Edition*, PA Farrell, MJ Joyner, VJ Caiozzo, Eds. Lippincott Williams & Wilkins, New York. [ISBN 978-0-7817-9780-1]

¹ graduate or medical student author

² undergraduate student author

³ postdoctoral or clinical research trainee author

Patents and Patent Applications

1. U.S. Provisional Patent Application No. 60/944,032 (CU TTO File No. CU1543B-PPA1); *Administration of Linoleic Acid for Prevention and Treatment of Heart Failure*
2. 20080318909 Issued 2008; Title: Use Of Linoleic Compounds Against Heart Failure. Inventors: Genevieve C. Sparagna, Adam J. Chicco, Russell L. Moore, Sylvia A. McCune.

UNIVERSITY FACULTY SERVICE AND COMMITTEE WORK:

2009	University of Colorado Steering Committee on Restricted, Proprietary, and Classified Research (Chair)
2008-2009	CU Boulder Energy Institute Study Group and Task Force (member)
2008	Chair, Working group on inter-unit DAICR Distribution
2008-2010	Meeting of Institute Administrators (MIA) working group (member)
2008-2009	Federal Acquisition Regulation (FAR) working group (member)
2008	Research Faculty Task Force (Member)
2008	University of Colorado Steering Committee on DAICR Distribution (Chair)
2007-2010	Export Controls Working Group (member)
2007-2010	Member of the CU System Senior Research Officer's (SRO) Group
2007-2010	CU Boulder Executive Steering Committee for the implementation of a CU System Electronic Research Administration System (responsible official)
2007-2008	CU Boulder Network Task Force (a Committee commissioned to study and make recommendations on a new campus IT funding model) (member)
2007-2008	Flagship 2030 Committee on Research, Scholarly Activity, and Creative Works (Co-Chair)
2006-2011	University of Colorado at Boulder GCRC/CTSA signatory and member of the CCTSI (Colorado Clinical and Translational Science Initiative) Executive Committee
2007-2010	University of Colorado at Boulder Standing Committee on Conflicts of Interest and Commitment (Ex-Officio Member)
2006-2010	Responsible for administration of internal campus grant screening and competitions (Council on Research and Creative Works, Innovative Grant Program, CU-NIST Seed Grant Program, internal competition (Searle, Packard, Merck Fellowships, all institution limited NSF programs, etc))
2006-2007	University of Colorado at Boulder Steering Committee on Conflicts of Interest and Commitment (Chair)
2006-2007	University of Colorado at Boulder Standing Committee on Restricted, Proprietary, and Classified Research (Ex-Officio Member)
2006-2007	University of Colorado at Boulder Steering Committee on Restricted, Proprietary, and Classified Research (Chair)
2006	University of Colorado (System Wide) Personnel Committee, Boulder Campus Representative
2005-2006	Department of Integrative Physiology Curriculum Review Committee (Chair)
2004-2006	Department of Integrative Physiology Space Committee (Chair)
2004-2006	Department of Integrative Physiology Animal Housing Facility Committee (Chair)
2002-2006	University of Colorado Boulder Campus Standing Committee on Research Misconduct, Member (representing the College of Arts and Sciences).
2002-2005	Member, College of Arts and Sciences Personnel (promotion & tenure) Committee
2001-2003	Member of the CU Boulder Arts and Sciences Task Force on Life Sciences

- 1994-2001 Chair, Department of Kinesiology and Applied Physiology, University of Colorado, Boulder, CO (7/94 through 6/98; re-elected to second term running from 7/98 through 8/19/01).
- 1998-present Member of the Board of Governors, The University of Colorado Cardiovascular Institute
- 1997-2001 Department of Kinesiology and Applied Physiology Diversity Liason
1999 Dean's Small Grant Review Committee (review graduate student grant proposals)
- 1998 External Reviewer of the MA/MS/Ph.D. program in Kinesiology at the University of Western Ontario in London, Ontario
- 1994-1998 Member of the College of Arts and Sciences Council of Chairs (7/94 through 6/98), University of Colorado, Boulder, CO
- 1995-1996 Chair, Internal Review Committee for the Molecular, Cellular, and Developmental Biology (MCDB) Program Review at the University of Colorado, Boulder.
- 1994 Institutional Animal Care and Use Committee (IACUC), Interim Chair (6/94 through 8/94) University of Colorado, Boulder, CO
- 1993-1994 Institutional Animal Care and Use Committee (IACUC), Member, University of Colorado, Boulder, CO
- 1993-1994 Department of Kinesiology Welfare Committee, University of Colorado
1990-1993 Medical Student Selections Committee,
The Pennsylvania State University College of Medicine
- 1991-1993 Department of Medicine Ad Hoc Committee on Research,
The Pennsylvania State University College of Medicine
- 1990-1992 Neurophysiology Course Committee,
The Pennsylvania State University College of Medicine
- 1988-1992 Cellular and Molecular Physiology Curriculum Committee,
The Pennsylvania State University College of Medicine
- 1986-1993 Interviewer for Medical School Admissions Committee,
The Pennsylvania State University College of Medicine
- 1984-1986 Chairman, Department of Kinesiology Welfare Committee,
University of Colorado, Boulder, CO
- 1984-1986 University Library Committee, University of Colorado, Boulder, CO

TEACHING EXPERIENCE:

1979-1981 *Undergraduate Exercise Physiology Laboratory, Washington State University*

1982 *Graduate Pharmacology Laboratory, University of Texas Health Science Center at Dallas.*

1984-1986 **University of Colorado at Boulder**

Undergraduate Courses:

- *General Human Physiology*, a course covering topics including cardiovascular, neuromuscular, renal, endocrine and respiratory physiology.
- *Exercise Physiology*, a course covering topics including metabolic, endocrine, and cardiopulmonary and musculoskeletal responses and adaptations to exercise and training and the influence of nutrition and environment on these system.

Graduate Courses:

- *Exercise Biochemistry*, focused on metabolic and subcellular adaptations to exercise and training.
- *Advanced Exercise Physiology*.
- *Exercise Physiology Laboratory Techniques (Cellular)*, including tissue enzyme and metabolite assay techniques, cell fractionation, electrophoresis, microgasometry, fluorometric and spectrophotometric techniques.
- *Current Topics Seminar*.

Undergraduate and Graduate Course Teaching Ratings: "very good" to "excellent".

Graduate Student Supervision: Directly supervised six M.S. level students.

1987-1993 **The Pennsylvania State University College of Medicine**

- Appointed as an *Associate Member of the Graduate Faculty*, Nov. 10, 1989.
- Appointed as a regular member of the Graduate Faculties of Bioengineering and Cellular and Molecular Physiology, 1989.

Graduate and Medical Student Teaching:

- *Medical (Human) Physiology*, (1987-1993) cardiovascular (smooth and cardiac muscle) lectures including membrane potentials, ECG, excitation-contraction coupling, muscle protein biochemistry, and muscle mechanics; shared responsibility for instituting computer assisted instruction in cardiovascular physiology;
Teaching ratings: "above average to excellent".

- *Cellular and Molecular Neurophysiology*, (1988-1993) lectures covering resting potentials, action potentials, and nerve conduction;
Teaching ratings: "excellent".
- *Muscle Mechanics Lab* - (1989-1991) Primary responsibility for instituting, administering and teaching a computer assisted muscle mechanics lab.
- *Cardiopulmonary Physiology Lab*, (1987-1990) assisted in labs.
- *Exercise Physiology/Biochemistry*, (1987) a 4 week interterm course; lectured on topics dealing with skeletal and cardiac muscle metabolic and contractile adaptations to acute and chronic exercise.

1993-present

University of Colorado at Boulder

- *Independent Study KINE 4860* - Independent study in hypertension and cellular exercise physiology research for 6 undergraduate Kinesiology majors.
- *Cardiac and smooth muscle excitation-contraction coupling, IPHY 6650 (formerly KAPH 6020-Seminar)*. Lectures covering vascular endothelial cell and smooth and cardiac muscle physiology including resting membrane and action potential generation, excitation-contraction coupling theory, muscle protein biochemistry, and muscle mechanics; student presentations and discussions on selected exercise and/or disease related topics comprised ~20% of the course. (Taught Fall 1994; Fall 1996; Fall 1998; Fall 2000; Fall 2002; Spring 2005). Teaching ratings: Consistently ranked in the top 20% college wide for teaching performance and course content (Faculty Course Questionnaire (FCQ) results).
- *Critical thinking in exercise physiology, KAPH 4660 (formerly KINE 4660)*. Lectures, discussions and presentations centered around the theme of 'physical activity as a modality to promote public health'. (Taught Fall 1995; Fall 1997; Fall 1999)
Teaching ratings: Course and instructor ratings (from FCQs) consistently in the top 30% across the College.
- *Colloquium in Kinesiology, KAPH 4100 (formerly KINE 4100)*. Recitation leader for undergraduate section of course. Moderate student discussions aimed at critiquing and analyzing guest speaker presentations; moderate student-speaker Q and A sessions. (Taught Fall 97; Spring 98; F 98; Sp 99; F 99; Sp 00)
Teaching ratings: Course and instructor ratings (from FCQs) consistently in the top 30% across the College.
- *Introduction to Integrative Physiology, IPHY 1010*. I developed a large enrollment (410-425 students) lower division course designed to introduce students to some history of the field of physiology, and the basic terms, concepts, and/or principles central to anatomy, anthropometry, biomechanics, cell physiology, neuromuscular and sensorimotor physiology, exercise physiology, endocrinology, and immunology. Focus is on human health and performance. The objective of the course is to familiarize students with material that will be addressed in detail in our core curriculum in Integrative Physiology

(Taught Fall 03, Fall 04, Fall 05). Teaching ratings: Course and instructor ratings (from FCQs) consistently in the top 30% across the College.

OTHER

Undergraduate, Graduate, & Medical Student, Resident, Clinical Fellow, and/or Postdoctoral Research Supervision:

Postdoctoral:

Pawlush, David G., M.D. (1987-1989); Provided 18 months of supervision in an NIH funded basic research fellowship; Dr. Pawlush served as an AHA funded Assistant Professor for 2 y in the Department of Medicine following his research fellowship; currently in private practice in Harrisburg, PA.

Lankford, Edward, M.D., Ph.D. (1990); Postdoctoral training culminating in a research faculty position at The Hospital of the University of Pennsylvania; Dr. Lankford went on to be a PHS (NIH) funded research faculty member in the Cardiovascular Section at the University of Pennsylvania. He is currently an Associate Professor of Medicine, Cardiology Section, at Thomas Jefferson University, Jefferson Medical College, in Philadelphia, PA.

Norris, John, M.D. (1990-1991); 1 year of research fellowship training. Dr. Norris is currently in private practice in Ohio.

Anne M. Thayer, Ph.D. (1994-1996); postdoctoral research fellow; currently employed as a data analyst by the University of Colorado.

Adam Chicco, Ph.D. (2004-2008); currently an Assistant Professor, Colorado State University.

Graduate Students:

Doctoral Level:

Donna Korzick, Ph.D. (1991- 1994); Ms. Korzick completed her Ph.D. in the Fall of 1994; Dr. Korzick completed a postdoctoral research fellowship (1995-1997) in Dr. Edward Lakatta's laboratory at the Gerontology Research Center, NIA, The National Institutes of Health, Baltimore, MD; she completed a postdoctoral research fellowship at the Dalton Research Center, University of Missouri, under the direction of Dr. M. Harold Laughlin. Dr. Korzick is a PHS (NIA) funded investigator who now assumes an Associate Professor Position at The Penn State University. She is currently the Chair of PSU's Interdisciplinary Physiology Program. Doctoral level work published in *Am.J.Physiol.(Heart Circ. Physiol.)*, and *Med. Sci. Sports Ex.*

Brian Stauffer, (1993-1994); Mr. Stauffer was a recipient of a Howard Hughes Medical Student Research Fellowship which sponsored 18 mos. of biomedical research training. His work culminated in publications in *Am.J.Physiol.(Cell Physiol.)*, and *Med. Sci. Sports Ex.* Dr. Stauffer was (2000-2006) a Cardiology Fellow at the University of Colorado Health Sciences Center (UCHSC). He was awarded a PHS Individual NRSA (F32) in 2001. Dr. Stauffer is currently a tenured Associate Professor of Medicine (Cardiology) at UCHSC in Denver.

Eric A. Mokolke, Ph.D. (1994-1999); graduate work published in *Am.J.Physiol.(Heart Circ. Physiol.)*; Dr. Mokolke was a postdoctoral research fellow at the University of Missouri under the direction of Dr. Michael Sturek (1999-2004). He was awarded a PHS Individual NRSA (F32)

in 2000. In 2004, he joined the research faculty (Physiology) at the Indiana University-Purdue University. In 2004, he received an American Heart Association Scientist Development Award. In 2006, he was hired by Guidant Corporation in Minneapolis, MN.

Steve Snyder, Ph.D. (1995-2000); graduate work published in the *American Journal of Physiology*, *Journal of Applied Physiology*, and the *Biophysical Journal*. Dr. Snyder was engaged as a theoretical mathematician and computer specialist at Lexicor Corporation in Boulder, CO. He was promoted to the position of Vice-President and Director of Research and Development in 2002. He currently holds that position.

Charlotte Olsson, Ph.D. (1994-2000). Graduate work has been published in the *Journal of Applied Physiology*, *American Journal of Physiology*, and the *Journal of Clinical Investigation*, and *Circulation Research*. Assumed a postdoctoral fellowship position in the Department of Physiology at the University of Wisconsin with Dr. Richard Moss in December 2000. In January 2003, Dr. Olsson obtained another postdoctoral training position in Neuroscience with Dr. Lars Larsson at the University of Uppsalla in Sweden. Dr. Olsson is currently on the faculty at the University of Lund.

Korinne N. (Meyer) Jew, M.S. Ph.D., (1998-2001) Graduate work has been published in *Journal of Applied Physiology* and other manuscripts are in review. Dr. Jew was a Professional Postdoctoral Research Associate at the University of Colorado at Boulder (2001-2005). In 2005, she entered an accelerated RN program at Regis University in Denver CO. She graduated in May 2006. She currently works as a Clinical Research Coordinator for Covidien Corp, Boulder, CO.

Lisa Mace, M.S., Ph.D. (1999-2002) Postdoctoral fellow in Dr. Katherine Murray's laboratory in the Department of Medicine, Division of Clinical Pharmacology at Vanderbilt University, Nashville, TN. Doctoral level work published in the *Journal of Applied Physiology* and *American Journal of Physiology (Regulatory, Integrative and Comparative Physiol)*. She currently works as a research professor in the Division of Clinical Pharmacology at Vanderbilt University.

Michael Kruk, doctoral candidate, (1999-2000). Withdrew from program, 2000.

David Brown, doctoral candidate, (1999-2005). Doctoral level work published in the *Journal of Applied Physiology*. At the 2004 Experimental Biology meeting in Wash D.C., Mr. Brown received the American Physiological Society's (Cardiovascular Section) 'Research Recognition Award'. Dr. Brown assumed a postdoctoral fellow position at Johns Hopkins University Medical Center in the Fall of 2005. In 2008, he assumed a position as an Assistant Professor at East Carolina University School of Medicine.

Craig Emter, doctoral candidate, (2001-2006). Dr. Emter was a postdoctoral fellow in the vascular physiology group at the University of Missouri, Columbia from 2006-2009. In 2009 he joined the faculty at the University of Missouri Columbia as an Assistant Professor in Veterinary Physiology.

Adam Berquist, doctoral candidate (2002-2003). Withdrew from program, 2003.

Andrew Edwards, doctoral candidate (2006-2010). After graduating in 2010, he began postdoctoral training in Bioengineering (computational modeling) at UC San Diego in June 2010.

Masters Degree Level:

Philip G. Smaldone, M.S. (1985-1986); Mr. Smaldone published his M.S. thesis work (*Journal of Applied Physiology*) and went on to receive his M.D. degree from the University of Colorado Health Sciences Center; currently private practitioner of Family Medicine in the Denver metropolitan area.

Mark R. Hilty, M.S., M.D. (1985-1986); Mr. Hilty's research culminated in several publications (*Journal of Applied Physiology*); he received his M.D. degree from the University of Cincinnati and is currently Board Certified in Internal Medicine in practice in Wharton, R.I.

Sheri Williams, M.S., R.N. (1985-1986); Ms. Williams published her thesis work (*Am.J.Physiol.(Cell Physiol.)*) and went on to become a practicing obstetrics nurse (R.N.) and licensed midwife.

Lori Gomer, M.S., R.N. (1985-1986); Ms. Gomer completed two years of medical school at the University of Colorado (in good standing); she went on to work in the health insurance industry.

Elizabeth Thacker, M.S. (1985-1986); Ms. Thacker's thesis research was published (*Journal of Applied Physiology*); she currently works in the home.

Hiroyuki Tanabe, M.S. (1985-1986); Mr. Tanabe published his thesis work (*Am.J.Physiol.(Cell Physiol.)*) and went on to become a secondary school teacher.

Mary Brethour, M.S., R.N. (1985-1986); Ms. Brethour went on to become a practicing obstetrics nurse (R.N.).

Inge Schuurmans, M.S. (1995-1996); was the Women's Assistant Track and Cross Country Coach at the University of Colorado, Boulder (1998-2000); Graduated from Physician's Assistant School in 2008, and is a P.A. at Dartmouth University Medical School (2009).

Alex Hazel, M.S. (1994-1997); graduate work published in *Am.J.Physiol.(Cell Physiol.)*; graduated from Kirksville College of Osteopathic Medicine, Kirksville, MO, 2002; completed a Psychiatry residency at the University of California @ Davis in 2005; currently a Pediatric and Adolescent Psychiatry Fellow at the University of California at Davis.

Patrick McLaughlin, M.S. (1998-2000); entered Univ. Colorado School of Medicine in Fall of 2001.

Jason Glunt, M.S. (2000-2002); self employed.

Todd Parsons, M.S. (1999-2001); Regional pharmaceutical sales representative for the Medicines Company (Northern Midwest Region), 2002-2005; Regional sales representative for Fox Hollow Scientific, 2005-2008; National Sales Force Trainer, 2008-present.

Casey Armstrong, M.S. candidate (2003-2004, 1 y leave of absence, 2005).

Derek Zachman, BA/MS (2006-2008); In 2009, Mr. Zachman entered a MD/PhD program at the Oregon Health Sciences Center in Portland, OR.

Rachel Gioscia, BA/MS (2007-2011); In 2011 Ms. Gioscia entered a PhD program in physiology at CU Boulder.

Jason Browder, BA/MS (2008-2011); Mr. Browder was accepted into a Physician's Assistant program at Yale University for fall 2011.

Matt Madsen, MS Candidate, 2011-2013.

Medical Student Research Training

Jeffrey Cope, MD (1992), Finalist in the Pennsylvania State University College of Medicine Graduate and Medical Student Research Symposium, 1992, Academic Years (AYs) 91 & 92;

AHA Young Investigator Award, Fall 2000. Dr. Cope is currently a Board Certified Cardiothoracic Surgeon at Lancaster General Hospital, Lancaster, PA.

Keith Devos, M.D. (1990), AY 1987. Board Certified in Internal Medicine and Neurology (Cleveland Clinic Foundation); currently a practicing neurologist in Johnson City, TN.

Paul Oh, M.D. (1990), AY 1988.

Emily Hass, M.D. (1993), AYs 91 & 92. Served as an Assistant Professor of Medicine at Duke University; currently an Associate Professor of Medicine (Cardiology) at the University of Colorado Anschutz Medical Center.

Greg Mitro, M.D. (1995), AY 92.

Undergraduate Student Research Training

Christy Frederick, B.S., Kinesiology (KINE) (1993-1995), Member of a Team Undergraduate Research Opportunity Program (UROP), Supported by the Howard Hughes Medical Research Initiative, 1994-1995; Graduated from the Physical Therapy Program at Regis College in 1998.

Michael Leonard, B.S. KINE (1995), Member, Team UROP Project, 1994-1995; self-employed.

Michael Michalec, B.S. KINE (1995), Member, Team UROP Project, 1994-1995.

Ian Wood, B.S. KINE (1995), Member, Team UROP Project, 1994-1995. Graduated from Arizona College of Osteopathic Medicine in 2002. Dr. Wood completed a Residency in the Emergency Medicine Program at the Maricopa Medical Center in Phoenix, AZ in 2005; He currently practices ER medicine in Phoenix, AZ.

Anthony Boras, B.S. KINE (1995), directed lab study 1994-95.

Lisa Chiou, Molec. Cell. Devel. Biology (MCDB), (1995), directed lab study, 1994

Patricia Tran, MCDB, So., URAP recipient, directed lab study, 1995.

Samuel Salz, B.A. KINE (1995), UROP recipient, directed lab study, 1995. Third year student at Arizona College of Osteopathic Medicine.

Christopher Coutts, B.A. KINE (1995), directed lab study, 1995.

Chris Ramsey, B.A., KINE (1996), directed lab study, honors thesis, 1996

Sarah Nickoloff, B.A., KINE (1999), UROP recipient, 1997-98.

Nicole Otanicar, B.A., KINE (1999), UROP recipient, 1998. Attended and graduated from medical school (2003) at Northwestern University.

Jason Glunt, B.A. KINE (2000), UROP recipient (1999-2000)

Sarah Smith, B.A. KINE (2001), UROP recipient (1999-2000)

Rebecca Shoen, BA, KINE (2001) Undergraduate Research Apprenticeship Program (URAP), Supported by the Howard Hughes Medical Research Initiative (1999-2000)

Justin Meyers, BA, KINE (2001) Graduated with a D.O. degree from Arizona College of Osteopathic Medicine, 2005; Completed a residency program in Emergency Medicine at Virginia Commonwealth University, Richmond, VA.

Christopher Chacon, B.A. candidate, KINE, & MCDB, UROP recipient (1999-2001). Entered graduate school at the University of Miami, Fall 2003.

Danielle (Hodne) Burger, B.A., KINE, (2000-2002) Undergraduate research assistant. Became a Professional Research Assistant at UCHSC, Denver (2003-2004); entered medical school at UCHSC, Denver, Fall 2004.

Katherine McCloskey, BA candidate, MCDB/KINE Undergraduate Research Apprenticeship Program (URAP), Supported by the Howard Hughes Medical Research Initiative (UROP, Summer 2001; 2001-2002)

Lisa Umphrey, BA, KINE/BIOCHEM (2003) directed lab study, AY02/03. Entered medical school at UCHSC, Denver, Fall 2003. Completed a Pediatric Residency program at the University of Wisconsin in 2010. In 2010 she went to a practice in Uganda.

Adam Seymour, BA, KINE/BIOCHEM (2003), directed lab study, AY02/03.

Nick Caruso, BA candidate, KINE, directed lab study, 2002-2005.

Lindsay Ehlers, BA candidate, KINE, directed lab study, 2002-2005.

Sarah Scherer, BA candidate, Integrative Physiology (IPHY), directed lab study, 2003-05.

Micah Johnson, BA/MS candidate, Integrative Physiology (IPHY), directed lab study, 2003-2006. In the summer of 2004, Mr. Johnson was supported by the NIH/HHMI Program for Diversity in the Biosciences (specifically, the Summer Multicultural Access to Research Training (SMART) Program). Mr. Johnson finished with a BA degree in 2006.

Melissa Maxey, BA candidate, Integrative Physiology (IPHY), directed lab study, 2004-2006.

Supported by the NIH/Howard Hughes Undergraduate Research Opportunities Program (UROP), Fall 2004, Summer 2005. She entered medical school at CU Denver in the fall of 2007. Dr. Maxey began her surgical residency at New York Medical College in Fall 2011.

David Bolden, BA IPHY 2009, directed lab study, 2007-2009. In the summer of 2008, Mr. Bolden was supported by the NIH/HHMI Program for Diversity in the Biosciences (specifically, the Summer Multicultural Access to Research Training (SMART) Program).

Geoff Fasen, combined BA/MS candidate, Integrative Physiology (IPHY), directed lab research, 2005-2006. Mr. Fasen entered the physician assistant program at the Univ of Iowa in 2006.

Meredith Rees, BA, IPHY (2006-2009). Ms. Rees will start in a PhD program in Molecular Biology at the University of Texas, Houston in the fall of 2009.

Rachel Gioscia, BA/MS candidate, IPHY (2007-present) Accepted to the PhD program in IPHY at CU Boulder for fall 2011.

Jason Browder, BA/MS candidate, IPHY (2007-present) Accepted to Yale PA program for fall 2011.

Vinita Sudhir Patel, BA candidate, IPHY (2007-2009)

Kat Stoneham, BA candidate, IPHY (2006-2009)

Dan Finnin, BA candidate, IPHY (2008-2011) Accepted to medical school at SUNY Upstate in Syracuse, NY for Fall 2011; Mr. Finnin also received his commission as an Ensign in the USN in 2011.

Jana Giebel, BA candidate, IPHY (2008-2009)

Taylor Kennedy, BA candidate, IPHY (2010-2011)

Andrea Moore, dual degree candidate, IPHY/Bus (2011-2013)