CURRICULUM VITAE

Michael B. Reid, PhD, FACSM, FAPS

05/05/2023

I. Biographical Information

A. Personal

1. Titles: Dean, College of Health and Human Performance
   Professor of Applied Physiology and Kinesiology
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4. Spouse: Laurel Anderson Reid, R.N., B.S., M.T.S.

B. Education

1. B.S. in Biology; University of Texas at Arlington, Arlington, TX.
2. Ph.D. in Physiology; University of Texas Southwestern Medical Center at Dallas (UT Southwestern), Dallas, TX.
3. Research fellow; UT Southwestern.
4. Research fellow/associate; Harvard University, Boston, MA.
5. Fellow; Academic Leadership Development Program, SEC Academic Consortium.

C. Academic Appointments

1. Assistant Professor of Physiology, Harvard University; 1987-1989.
2. Assistant Professor of Medicine and Molecular Physiology & Biophysics, Baylor College of Medicine (BCM), Houston, TX; 1989-1993
3. Associate Professor of Medicine and Molecular Physiology & Biophysics, BCM; 1993-1998
4. Member, BCM Graduate faculty; Molecular Physiology & Biophysics; 1994-2003.
5. Professor of Medicine and Molecular Physiology & Biophysics; BCM; 1998-2003
6. Shih-Chun Wang Professor of Physiology, University of Kentucky (UK); 2003-2013.
7. Member, UK Graduate Faculty; 2003-2013
8. Faculty member; UK Graduate Center for Nutritional Science; 2005-2013.
9. Member, UK Center for Muscle Biology; 2008-2013.
9. Professor of Applied Physiology and Kinesiology, University of Florida (UF); 2013-present.
10. Member, UF Center for Exercise Science; 2013-present.
11. Member, UF Graduate Faculty; 2015-present
12. Member, UF Breathing Research and Therapeutics Center; 2015-present.

D. Administrative Positions

1. Chief of Research, BCM Pulmonary and Critical Care Medicine; 2001-2003.
2. Chair, UK Department of Physiology; 2003-2013
3. Founding Director, UK Center for Muscle Biology, UK; 2008-2010
4. Vice Dean for Biomedical Science, UK College of Medicine; 2011-2013
5. Dean, UF College of Health and Human Performance; 2013-present.

E. Visiting Appointments

1. Adjunct Faculty; Simmons College, Boston, MA; 1981-1983.
2. Research Physiologist; VA Medical Centers, Brockton/West Roxbury, MA; 1984-1989.

3. Visiting Scientist; Catholic University of Leuven, Leuven, Belgium; 1986, 1987, and 1989.
4. Visiting Professor; Karolinska Institutet, Stockholm, Sweden; 1995 and 1999
5. Founding Investigator; National Space Biomedical Research Institute; 1997-2009.
6. Adjunct Professor of Physiology, University of Kentucky; 2013-2015.

F. Awards and Honors

1. St. Paul Fund Fellowship; 1976-1977.
2. Graduate Student Research Forum, Galveston, TX; 1979.
3. NIH Predoctoral Fellowship; 1977-1980.
4. NIH Postdoctoral Fellowship; 1980-1983
5. Marquis' *Who's Who in Frontiers of Science and Technology,* 2nd-4th Eds.; 1985-1997.
6. *American Men and Women of Science,* 16th-19th Eds.; 1987-1997.
7. Excellence in Research Award; Dept. of Medicine, BCM; 1998.
8. Marquis' *Who's Who in the World,* 17th Ed.; 1999.
9. Marquis' *Who's Who in Medicine and Healthcare*, 4th Ed.; 2002.
10. Distinguished Service Award; College of Health Sciences, UK; 2006.
11. *Research Spotlight* featured investigator; Clinical Research Organization, UK; 2006.
12. Mentor Recognition Award; Clinical and Translational Science Conference, UK; 2007.
13. Holsinger Award for Excellence in Teaching; Dept. of Physiology, UK; 2007.
14. Fellow; Academic Leadership Development Program, Southeastern Conference Academic Consortium; 2009-2010.
15. Wethington Award for Excellence in Research; Dept. of Physiology, UK; 2004-2013.
16. Fellow, American College of Sports Medicine (FACSM); 2016-present.
17. Fellow, American Physiological Society (FAPS); 2017-present
18. Honor Award, Texas Region of the American College of Sports Medicine, 2023.

G. Professional Societies

1. American Physiological Society, 1983-present.
2. American College of Sport Medicine, 2010-present
3. International Council of Motorsport Science, 2018-present
4. American Thoracic Society, 1992-2004.
5. American Association for the Advancement of Science, 1982-1999.
6. New York Academy of Science, 1982-1990.

H. Board Certification

1. Certified Respiratory Therapy Technician; 1972.
2. Registered Respiratory Therapist; 1981.

I. Clinical Positions

1. Respiratory Therapy Technician, Harris Hospital, Fort Worth, TX; 1970-1973.
2. Respiratory Therapy Supervisor, Harris Hospital, Fort Worth, TX; 1973-1975.
3. Respiratory Therapy Supervisor; Presbyterian Hospital, Dallas, TX; 1976-1981.
4. Respiratory Therapist, Beth Israel Hospital, Boston, MA; 1981-1983.

II. Research Activities

A. Active Support

1. *Training Program in Respiratory Biology and Rehabilitation*; NIH T32 award, National Heart, Lung, and Blood Institute; internal advisory board; 2017-present.
2. *Physiological Monitoring to Increase Driver Safety*; NASCAR Pilot Study; Principal Investigator; 08/22-03/23.
3. *Physiological Responses to Driving a Race Car*; NASCAR Research Contract; Principal Investigator; 01/23-12/23.

4. *Athlete Development in NASCAR*; Game Change, Inc.; Consultant; 01/23-08/23

B. Previous Support

1. *Diaphragm Energetics Measured Using ^{31}P-NMR Spectroscopy*; Harvard University Milton Fund; Principal Investigator; 1/89-12/89.
2. *Isotonic Contractile Properties of Diaphragm In Vitro*; USPH Biomedical Research Support Grant; Principal Investigator; 7/88-6/89.
3. *Pathogenesis, Diagnosis, and Treatment of Chronic Lung Disease*; NIH P50 HL19170; Co-Investigator; 12/86-11/91.
4. *Limb and Respiratory Muscle Function in Alcoholic Rats*; NIH R01 AA07134; Principal Investigator; 12/86-11/89.
5. *Intracellular Oxidant Production by Isolated Diaphragm*; NIH S07 RR05425; Principal Investigator; 1/90-3/91.
6. *Effect of O_2 Radicals on Diaphragm Function*; American Lung Association/San Jacinto Area #RG-103-L; Principal Investigator; 7/91-9/92.
7. *Mediation of Diaphragm Fatigue by Endogenous Oxygen Radicals*; American Heart Association (AHA) 91G-185; Principal Investigator; 7/91-9/92.
8. *Physiological Evaluation of the Penguin Suit*; National Aeronautics and Space Administration; Co-Investigator; 10/92-9/93.
9. *The Role of Neutrophils in Skeletal Muscle Ischemia*; Baylor/Zeneca Research Alliance; Principal Investigator; 1/94-12/95.
10. Travel Fellowship; Baylor College of Medicine/Karolinska Institute Research Exchange Program; 6/95.
11. *Dichloroacetate Effects on Human Muscle Fatigue*; Baylor/Zeneca Research Alliance; Principal Investigator; 1/95-10/96.
12. *Muscle Function in Reperfusion Injury*; Forest Laboratories, Inc.; Principal Investigator; 6/96-11/96.
13. *Cancer-Induced Cachexia*; Baylor/Zeneca Research Alliance; Principal Investigator; 4/96-3/98.
14. *Activity Dependent Signal Transduction in Skeletal Muscle*; National Space Biomedical Research Institute; Co-Investigator; 10/97-9/00.
15. *Signal Transduction Mechanisms in Cardiac and Skeletal Muscle in Chronic Heart Failure*; AstraZeneca-Baylor Research Alliance research grant; Co-Principal Investigator; 01/00-12/01.
16. *Research Training in Lung Disease*; NIH T32 HL46230; Principal Investigator; 7/93-7/03.
17. *Molecular Excitability in the Cardiovascular System*; NIH T32-HL07676; Co-Director; 7/94-7/03.
18. *Redox Mechanisms in Dystrophic Muscle*; Muscular Dystrophy Association; Principal Investigator; 07/01-06/04.
19. *Physiology of Respiratory Muscle Cells*; NIH R01 HL059878; Principal Investigator; 04/98-11/07.
20. *Mechanical Signal Transduction in Glucose Transport of Skeletal Muscle*; AHA Predoctoral Fellowship; Mentor (M. Chambers, Trainee); 07/06-06/08.
21. *Physiology of the Respiratory Muscles*; NIH R01 HL45721; Principal Investigator; 07/92-08/08.
22. *Redox Modulation of Muscle Function in Microgravity*; National Space Biomedical Research Institute, NASA NCC9-58; Principal Investigator; 06/01-08/09.
23. *Intracellular Signaling of Cytokine Stimulated Protein Degradation in Skeletal Muscle*; AHA Postdoctoral Fellowship; Mentor (L. Ferreira, Trainee); 07/07-06/09.
24. *Intracellular Signaling of Cytokine Stimulated Protein Degradation in Skeletal Muscle*; AHA Postdoctoral Fellowship competitive renewal; Mentor (L. Ferreira, Trainee); 07/09-06/10.
25. *Weakness and Fatigue in Cancer Chemotherapy*; AHA Predoctoral Fellowship; Mentor (L. Gilliam, Trainee); 07/09-09/10.
26. *NIAMS Building Interdisciplinary Research Teams (BIRT) Revision Award*; NIH R01

AR055974-02S1; Principal Investigator; 10/09-09/10.
27. *Clock Genes, Environmental Challenges, and Cardiopulmonary Disease*. NIH RC1 ES018636; Co-Investigator (K. Esser/F. Andrade, Co-P.I.s); 09/09-07/11.
28. *Effect of BBI Supplementation on Unloaded Muscle*; Solae, LLC research award; Principal Investigator; 01/11-12/11.
29. *University of Kentucky Center for Clinical and Translational Science*; NIH NCRR UL-1; Key Function Leader (P. Kerns, PI); 07/11-06/12.
30. *Interactive Learning Modules for Writing Grant Applications*; NIH R13 GM058252-11; Co-Investigator (D. Frazier, P.I.); 09/09-08/12.
31. *A Novel Mechanism by Which iPLA2 Links Diabetes to Cardiovascular Diseases*; NIH R01 HL088389; Co-Investigator (Z. Guo, P.I.); 03/08-02/13.
32. *Research Training in Respiratory Muscle Biology*; NIH T32 HL086341-02; Principal Investigator; 04/08-03/13.
33. *Respiratory Muscle Weakness in Chronic Inflammation*; National Institutes of Health (NIH) grant R01 AR055974-01; Principal Investigator; 04/09-03/14.
34. *DGB-01 Supplementation and Cycling Endurance*; Immunotec, Inc. translational research award; Principal Investigator; 11/11-10/13.
35. *Effect of NSP Supplementation on Unloaded Muscle*; Solae, LLC research award; Principal Investigator; 09/12-08/13.
36. *Respiratory Muscle Weakness in Chronic Inflammation*; National Institutes of Health (NIH) grant R01 AR055974-01; Co-Investigator; 04/09-03/14.
37. *Skeletal Muscle Biology in Rheumatoid Arthritis*; NIH R01 AR062083-01; Principal Investigator; 09/12-08/14.
38. *Transforming the Colonial Quarter*; UFHSA Historic St. Augustine Preservation Research, Interpretation, and Education Grant; Principal Investigator; 02/15-06/17.

C. Editorial Appointments

1. Editorial board, *American Journal of Respiratory and Critical Care Medicine;* 1996-2005.
2. Editorial board, *Journal of Applied Physiology*; 1996-2006.
3. Associate Editor, *Physiological Reviews*; 2000-2005.
4. Scientific advisor, *BioMed Central/Pulmonary Medicine*; 2002-2020.
5. Scientific advisor, *Science*; 2005.
6. Contributing member, *Faculty of 1000 Biology;* 2006-2009.
7. Guest Editor, *Antioxidant & Redox Signaling*; 2010-2011.
8. Editorial board, *Muscle & Nerve*, 2006–2016.
9. Editorial board, *Skeletal Muscle*; 2010-2014.
10. Editorial board, *Antioxidant & Redox Signaling*; 1998-present.
11. Consulting Editor, *Journal of Applied Physiology*; 2006-present.
12. Guest Editor, *Cells*; 2021-present.

D. Editorial Review Activity (*partial listing*)

1. *Acta Physiologica Scandinavica*
2. *Aging: Clinical and Experimental Research*
3. *Alcoholism: Clinical and Experimental Research*
4. *American Journal of Physiology (AJP): Cell Physiology*
5. *AJP: Endocrinology and Metabolism*
6. *AJP: Regulatory, Integrative and Comparative Physiology*
7. *American Journal of Respiratory and Critical Care Medicine*
8. *American Journal of Respiratory Cell and Molecular Biology*
9. *Cell Biology International*
10. *Cells*
11. *Chest*
12. *Circulation*

13. *Comparative Biochemistry and Physiology*
14. *European Journal of Physiology*
15. *FASEB Journal*
16. *Free Radicals in Biology and Medicine*
17. *Journal of Applied Physiology*
18. *Journal of Clinical Investigation*
19. *Journal of Physiology (London)*
20. *Life Sciences*
21. *Medicine and Science in Sports and Exercise*
22. *Muscle and Nerve*
23. *New England Journal of Medicine*
24. *Pharmacology and Toxicology*
25. *Proceedings of the Society for Experimental Biology and Medicine*
26. *Respiration Physiology*
27. *Scientific Reports*
28. *Translational Journal of the American College of Sports Medicine*

E. Scientific Review Panels (*partial listing*)

1. Chair and Member, NIH Respiratory & Applied Physiology (RAP) Study Section; 1998-2001.
2. Founding Chair, NIH Skeletal Muscle Biology (SMEP) Study Section; 2001-2002.
3. Chair, NIH Aging and Neuromuscular Junctions P01 Review Committee; 2015 and 2016
4. NIH Special Review Committee NIA P01 Application; 2015.
5. NIH RIBT Study Section ad hoc; 2010.
6. NIH SMEP Study Section ad hoc; 2013.
7. NIH RC1 Stage One Review Panel ZRG1 CVRS-B58
8. NIH Special Review Committee ZRG1 CVRS-G03
9. NIH Special Review Committee ZRG1 MOSS-H04
10. NIH Special Review Committee ZRG1 MOSS-D14
11. NIH Special Review Committee ZRG1 MOSS-E02
12. NIH Special Review Committee ZRG1 MOSS-K07
13. NIH Special Emphasis Panel ZAG1 ZIJ-8 (J1)
14. NIH Special Emphasis Panel ZRG1 MOSS-F02
15. NIH Special Emphasis Panel ZAT1 SM07
16. NIH Special Emphasis Panel ZAG1 ZIJ-5 (J4)
17. NIAMS Special Grants Review Committee
18. NIAMS Wellstone Center Grant Review Panel
19. NIH Cardiovascular and Pulmonary Study Section ad hoc
20. NIH Lung Biology and Pathology Study Section ad hoc
21. NHLBI Specialized Center of Research Site Visit Team
22. VA Merit Review Board for Respiration ad hoc
23. AFM - Institut de Myologie (France) ad hoc
24. British Columbia Health Research Foundation (Canada) ad hoc
25. Quebec Lung Association (Canada) ad hoc
26. Murdock Trust (Great Britain) ad hoc
27. Medical Research Council (Great Britain) ad hoc

F. Research Consultancies

1. Pfizer Pharmaceuticals, Canterbury, England; 1998.
2. Bristol-Meyers Squibb, Princeton, NJ; 2004-2006.
3. NIH R01, Dr. Sanford Levine, PI, University of Pennsylvania; 2005-09.
4. DSM Nutritional Products, Basel, Switzerland; 2005.
5. Unilever Corporate Research, Sharnbrook, England; 2005-2007.
6. NIH P01, J. Ma, P.I.; Univ. of Medicine and Dentistry of New Jersey; 2005-2007.

7. Abbott Nutrition, Columbus, OH; 2009.
8. NIH R01, F. Laghi, P.I.; Loyola Univ. Medical Center; 2007-2011.
9. Solae LLC, St. Louis, MO; 2010-2013.
10. Immunotec Inc., Vaudreuil-Dorion, Quebec, Canada, 2011-2013.

G. Invited Lectures, Symposia, Workshop Participation

1. *Chronic Alcohol Consumption and Muscle*; Battelle Industries; Columbus, OH; 6/10/86.
2. *Alcoholism and the Respiratory Muscles*; Catholic University of Leuven, Belgium; 7/3/86.
3. *Diaphragm Function in Alcoholic Rats*; University of South Alabama, Mobile; 8/25/86.
4. *Diaphragm Capillary Density and Oxygen Exchange*; Workshop on Dyspnea and Respiratory Muscle Fatigue; American Heart Association, Dallas, TX; 11/16/86.
5. *Theophylline and the Diaphragm*; Catholic University of Leuven, Leuven, Belgium; 6/20/87.
6. *Effects of Drugs on Respiratory Muscles*; 23rd Annual Congress, European Society for Clinical Respiratory Physiology; Athens, Greece; 6/22/88.
7. *Drug Effects on the Diaphragm*; University of Pittsburgh; 7/25/88.
8. Invited participant; NIH National Heart, Lung, and Blood Institute Workshop on Respiratory Muscle Fatigue; Kansas State University, Manhattan, KS; 9/16/88.
9. *Theophylline and the Diaphragm*; Univ. Texas Health Science Center, Houston; 2/12/90
10. *Glucocorticoids and the Respiratory Muscles*; The Methodist Hospital, Houston, TX; 6/27/90.
11. *Respiratory Pharmacology*; Texas A&M University; 8/2/90.
13. *Do Oxygen Radicals Modulate Skeletal Muscle Function?*; Department of Medicine; Baylor College of Medicine; 10/8/90.
14. *Oxygen Radicals as Modulators of Diaphragm Function*; University of Texas Health Science Center at San Antonio; 2/11/90.
14. *Oxygen Radicals in Skeletal Muscle*; Rice University, Houston, TX; 2/15/91.
15. *Free Radicals and the Respiratory Muscles*; Univ. Texas Medical Branch, Galveston; 4/5/91.
16. Symposium chair, *Mechanics of Breathing*; 75th Annual FASEB Meeting, Atlanta; 4/22/91.
17. *Oxygen Radicals and the Diaphragm*; Mayo Clinic; Rochester, MN; 9/25/91.
18. *Microgravity and the Chest Wall*; NASA/Johnson Space Center, Houston; 11/15/91.
19. *Oxygen Radicals and the Diaphragm*; University of Florida; 11/21/91.
20. *Muscle Fatigue in Weaning Patients*; Univ. Texas Health Science Center, Houston, 12/6/91.
21. *Oxygen Radicals in Skeletal Muscle*; Division of Restorative Neurology, Baylor College of Medicine; 12/18/91.
22. Invited discussant, *Respiratory Muscle: Fatigue and Failure*; American Thoracic Society International Conference; Miami, FL; 5/17/92.
23. *Extracellular Release of Oxygen Radicals by Diaphragm In Vitro*; American Thoracic Society International Conference, Miami, FL; 5/19/92.
28. Symposium chair, *Respiratory Infections in Immunocompromised Patients*; 2nd Annual Congress, European Respiratory Society; Vienna, Austria; 8/30/92.
25. *Reactive Oxygen and the Respiratory Muscles*; Univ. Texas Medical School, Houston; 3/8/93.
26. *Reactive Oxygen in Diaphragm Physiology*; Texas Thoracic Society; Austin, TX; 4/16/93.
27. Symposium chair, *Research Presentations*; Texas Thoracic Society meeting, Austin; 4/16/93.
28. Symposium chair, *Cellular Mechanisms of Diaphragm Fatigue*; International Conference of the American Thoracic Society; San Francisco; 5/16/93.
29. *Reactive Oxygen Physiology in Skeletal Muscle*; Texas A&M University; 8/3/93.
30. *Free Radicals in Muscular Fatigue*; Zeneca Pharmaceuticals; Cheshire, England; 12/9/93.
31. *Physiology of the Respiratory Muscles*; Texas Children's Hospital, Houston; 1/7/94.
32. *Free Radicals in Muscular Fatigue*; ICI/Zeneca Pharmaceuticals, Wilmington, DE, 3/14/94.
33. *Neutrophils and Muscle Function*; Zeneca Pharmaceuticals, Cheshire, England; 5/16/94.
34. Symposium chair, *Respiratory Muscles: Oxidative Stress and Resistive Loading*; International Conference of the American Thoracic Society; Boston; 5/23/94.
35. *Nitric Oxide in Skeletal Muscle*; Univ. Texas Medical School, Houston; 10/21/94.
36. *Redox Biology of Skeletal Muscle*; Dept of Medicine, Baylor College of Medicine; 12/15/94.

37. *Reactive Oxygen and Nitric Oxide in Skeletal Muscle*; Department of Molecular Physiology and Biophysics, Baylor College of Medicine, Houston, TX; 3/14/95.
38. *Reactive Oxygen and Nitric Oxide in Skeletal Muscle*; Department of Physiology and Pharmacology, Karolinska Institute, Stockholm, Sweden; 6/15/95.
39. *Role of NO and cGMP in Skeletal Muscle*; Pfizer Limited, Sandwich, England; 7/17/95.
40. *Nitric Oxide in Skeletal Muscle.* University of Pittsburgh; 10/25/95.
41. *The Respiratory System in Microgravity*; University of Pittsburgh; 10/26/95.
42. *Oxidants as Regulators of Skeletal Muscle Function*; Ohio State University; 12/6/95.
43. *Nitric Oxide Effects on Calcium and Force in Single Fibers*; Ohio State University; 12/8/95.
44. *Nitric Oxide and Reactive Oxygen in Skeletal Muscle,* Kansas State University; 2/5/96.
45. *Production of Nitric Oxide and Reactive Oxygen by Skeletal Muscle*; Experimental Biology `96, Washington, D.C.; 4/15/96.
46. Chair, *Research Presentations*; Texas Thoracic Society annual meeting, Austin, TX; 4/19/96.
47. Symposium chair, *Reactive Oxidants and Respiratory Muscle Function*; ATS/ALA International Conference, New Orleans; 5/13/96.
48. *Nitric Oxide and its Vasoactive and Contractile Influences Within the Diaphragm*; American College of Sports Medicine annual meeting, Cincinnati, OH; 5/30/96.
49. *Redox Signaling in Skeletal Muscle*; Univ. Texas M.D. Anderson Cancer Center; 7/19/96.
50. *Nitric Oxide and Reactive Oxygen in Respiratory Muscles*; Baylor College Medicine; 7/31/96.
51. *Cancer-Induced Cachexia*; Zeneca Pharmaceuticals, Alderley Park, England; 10/16/96.
52. *Nitric Oxide and Reactive Oxygen in Skeletal Muscle*; Harvard University; 12/10/96.
53. *Effects of TNF on Skeletal Muscle Myocytes*; University of Florida; 1/31/97.
54. *Role of NO in Muscle Function;* Conference on Muscle Performance: Fatigue, Recovery and Trainability, Gudbrandsdalen, Norway, 3/2/97.
55. *Measurement of Nitric Oxide and Reactive Oxidants in Muscle*; ATS/ALA International Conference, San Francisco; 05/18/97.
56. Symposium chair, *Molecular Mechanisms of Oxidant Effects on Respiratory Muscle*; ATS/ALA International Conference, San Francisco; 05/18/97.
57. *Measurement of Contractility and Diaphragm Function*; American College of Sports Medicine annual meeting, Denver, CO; 05/30/97.
58. *Effect of Nitric Oxide on Skeletal Muscle Contractility*; American College of Sports Medicine annual meeting, Denver, CO; 05/29/97.
59. *Reactive Oxygen and Antioxidants in Muscle Fatigue*; XXXIII International Congress of Physiological Sciences, St. Petersburg, Russia; 07/02/97.
60. *Redox Modulation of Skeletal Muscle Function*; University of Kuopio, Finland; 07/08/97.
61. *Reactive Oxygen, Nitric Oxide, and Skeletal Muscle Function*; 10th International Conference on the Biochemistry of Exercise, Sydney, Australia; 07/19/97.
62. *Reactive Oxygen in Skeletal Muscle*; Univ. of Texas Medical Branch, Galveston; 10/20/97.
63. Invited participant, *Skeletal Muscle Dysfunction in COPD Workshop*; American Thoracic Society, Miami, FL; 12/17/97.
64. *Signal Transduction by NF-κB in Skeletal Muscle*; Medical College of Georgia; 03/16/98.
65. *Free Radical Biology in Skeletal Muscle*; Medical College of Georgia; 03/18/98.
66. *Redox Sensitive Transcription Factors*; Experimental Biology '98, San Francisco; 04/18/98.
67. Symposium Chair, *Free Radicals in Muscle:* ALA/ATS International Conf., Chicago; 04/27/98.
68. Symposium Chair, *Exercise Performance in Disease*; ALA/ATS International Conf.; 04/28/98.
69. Discussion facilitator, *Respiratory Muscles*; ALA/ATS International Conf., Chicago; 04/28/98.
70. *Redox Modulation of NF-κB in Muscle*; ALA/ATS International Conf., Chicago; 04/29/98.
71. *Redox Mechanisms of Fatigue*; International Pathophysiology Conf., Lahti, Finland; 06/30/98.
72. *Recent Concepts in Respiratory Muscle Fatigue: Novel Mechanisms and Potential Therapies*; 41st Workshop on Clinical Respiratory Physiology, Vienna, Austria; 10/16/98.
73. *NF-κB Signaling in Skeletal Muscle*; University of Florida; 01/28/99.
74. *Free Radical Biology in Skeletal Muscle*; Univ. of Texas Medical School, Houston; 05/10/99.
75. *Redox Control of Muscle Adaptation and its Potential Importance in Aging*; 46th Annual

Meeting, American College of Sports Medicine, Seattle, WA; 06/03/99.
76. *Redox Regulation of Muscle Contraction*; 46th Annual Meeting, American College of Sports Medicine, Seattle, WA; 06/03/99.
77. *Mechanisms of TNF Action in Skeletal Muscle Cells*; Hospital Universitario Son Dureta, Palma de Mallorca, Spain; 11/18/99.
78. *Free Radical Biology in Skeletal Muscle*; Tufts University; 02/28/00.
79. *Free Radical Biology in Skeletal Muscle*; University of California, Davis; 03/10/00.
80. *Redox Modulation of NF-κB in Respiratory Muscles*; ALA/ATS International Conference, Toronto, Canada; 04/26/00.
81. *Cytokines and Oxidative Signaling in Skeletal Muscle*; Acta Physiologica Scandinavica Symposium on Skeletal Muscle Diseases, Nusslingen Island, Sweden; 05/18/00.
82. *TNF-Induces Muscle Weakness Without Protein Loss*; University of Florida. 02/08/01
83. *TNF Stimulates Myofilament Dysfunction;* Experimental Biology '01, Orlando, FL; 04/03/01
84. Symposium organizer, *Advances in Skeletal Muscle Biology*; ATS/ALA International Conference, San Francisco; 05/21/01
85. *TNF and Muscle Wasting: a Cellular Perspective.* FASEB Summer Research Conference on Muscle Satellite and Stem Cells; Tucson, AZ; 07/15/01
86. *Ergogenic Effects of Creatine Supplementation*. Fifth Annual International Symposium on Physical Activity; Rio de Janiero, Brazil. 11/09/01.
87. *Redox Modulation of Force by Skeletal Muscle*. Yale University; 03/21/02
88. *TNF and Muscle Wasting: a Cellular Perspective.* Pfizer, Inc., Groton, CT. 03/22/02
89. *Muscle Wasting in Inflammatory Disease*. Experimental Biology '02, New Orleans; 04/23/02
90. *Muscle Weakness in Long-Term Space Flight*. National Space Biomedical Science Research Institute Teacher Space Science Program, Galveston; 06/03/02.
91. *Redox Signaling and Muscle Adaptation*. University of Massachusetts, Amherst; 06/21/02.
92. *Mechanisms of TNF-Induced Weakness*; Univ. of Texas Medical School, Houston; 09/05/02.
93. *TNF and Skeletal Muscle Weakness*; University of Buffalo, NY; 09/18/02.
94. *Muscle Weakness in Long-Term Space Flight*. Pulmonary and Critical Care Medicine Research Conference, Baylor College of Medicine, Houston, TX; 09/25/02.
95. *Muscle Weakness Caused by TNF: Cellular and Molecular Mechanisms*, University of Arkansas for Medical Sciences, Little Rock, AR; 11/07/02.
96. *Weakness Caused by TNF: Cellular Mechanisms*, University of Kentucky; 11/14/02.
97. *Redox Control of Skeletal Muscle Function in Microgravity*. NASA Bioastronautics Investigator Workshop, Galveston; 01/14/03.
98. *Responding to Your Grant Review: A Strategy for Success*. University of Florida; 01/29/03.
99. *Redox Mechanisms in Muscle Catabolism*; University of Florida; 01/30/03.
100. *Can Antioxidants Improve Athletic Performance?* 50th Annual Meeting of the American College of Sports Medicine, 05/29/03
101. *Role of Radicals in Muscle Wasting in Disease*. 50th Annual Meeting of the American College of Sports Medicine, 05/31/03
102. *Inflammatory Mediators and Muscle Catabolism*. FASEB Summer Research Conference on Skeletal Muscle Satellite Cells, Tucson, AZ; 07/27/03.
103. *Skeletal Muscle Weakness Caused by TNF: Cellular and Molecular Mechanisms*. Children's Nutritional Research Center, Washington, D.C.; 09/17/03.
104. *Muscle Weakness in the Elderly*. Biology of Aging Symposium, Univ. of Kentucky; 10/09/03.
105. *Can Antioxidants Improve Athletic Performance?* USA Track and Field Coaches Colloquium, Las Vegas; 12/12/03
106. *Redox Mechanisms of Muscle Weakness in Microgravity*. National Space Biomedical Research Institute Annual Meeting, Houston; 01/13/04.
107. *Muscle Weakness Induced by TNF: Cellular and Molecular Mechanisms*; University of Alabama Medical Center, Birmingham; 01/14/04.
108. *Muscle Function in Microgravity*. Department of Pathology, University of Kentucky; 02/13/04.
109. *Regulation of Muscle Adaptation*. Experimental Biology '04, Washington, D.C.; 04/20/04.

110. *Exercise and the Ubiquitin-Proteasome System*; Experimental Biology '04; 04/21/04.
111. *Redox Mechanisms of Skeletal Muscle Weakness*. Harvard University; 09/20/04.
112. *Inflammation and Weakness*; Dept of Pharmacology, University of Kentucky; 12/09/04.
113. *Space Flight, Inflammatory Disease, and Muscle Weakness*. Bristol-Myers Squibb Pharmaceutical Research Institute, Lawrenceville, MD; 12/14/04.
114. *Muscle Weakness in Chronic Disease*. Neurology Grand Rounds, Univ. Kentucky; 12/16/04
115. *Inflammatory Mediators and Diaphragm Weakness*. Respiratory Biology Working Group, University of Kentucky; 01/28/05.
116. *Muscle Weakness in the Elderly*. Center on Aging, University of Kentucky; 01/28/05.
117. *Oxidative Stress Stimulates Weakness Without Atrophy;* University of Florida; 02/03/05.
118. *Muscle Weakness in Space Flight*. Dept of Kinesiology, University of Kentucky; 03/04/05.
119. *Cachexia and Muscle Weakness.* Dept. of Anatomy, University of Kentucky; 03/07/05.
120. *Catabolic Regulation by Reactive Oxygen Species*. Univ. of Liverpool, England; 05/19/05.
121. *Oxidative Stress and Muscle Disuse Atrophy*; 52nd Annual Meeting American College of Sports Medicine, Nashville; 06/04/05.
122. *Redox Mechanisms of Weakness*. Center for Nutritional Science, Univ. Kentucky; 09/14/05.
123. *Muscle Weakness in Aging*. Board of Directors, Sanders Brown Center on Aging Foundation, Lexington, KY; 09/19/05.
124. *Antioxidant Therapy in Muscle.* DSM Nutritional Products, Ltd; Basel, Switzerland; 10/17/05.
125. *Mechanisms of Protein Degradation and Weakness in Muscle.* Unilever SPARK Conference, Amsterdam, Netherlands; 11/09/05.
126. *Animal Models of Space Flight.* Division of Laboratory Resources, Univ. Kentucky; 02/23/06
127. *Redox Mechanisms of Muscle Weakness*. Univ. Texas Medical School, Houston; 03/30/06.
128. *Intracellular Mechanisms of Cytokine-Induced Diaphragm Weakness*. American Thoracic Society / American Lung Association International Conference, San Diego; 05/22/06.
129. *Redox Biology in Muscle*; Lilly Pharmaceuticals Working Group; 06/20/06.
130. *Research Training in Respiratory Biology*; Pulmonary Medicine, Univ. of Kentucky; 06/15/06
131. *Redox Mechanisms in Fatigue*. ACSM Symposium on the Integrative Physiology of Exercise, Indianapolis, IN; 09/28/06.
132. *Translational Questions in a Research Career*. Clinical and Translational Science Fall Conference, University of Kentucky; 10/03/06.
133. *Muscle Performance in Long-Term Space Flight: Problems Facing the U.S. Space Program*. Ninth International Sports Sciences Congress, Mugla, Turkey; 11/03/06.
134. *Interpreting Your Reviews and Responding to Reviewers*; University of Florida; 01/24/07.
135. *Chemotherapeutic Agents and Muscle Dysfunction*; Univ. of Florida; 01/25/07.
136. *Is Interleukin 1 (IL-1) Pro-catabolic?*; Muscle Journal Club, University of Kentucky; 03/01/07.
137. *Muscle Performance in Long-Term Spaceflight*; Transylvania Univ., Lexington, KY; 03/19/07.
138. *Translational Questions in a Basic Science Career*; Integrated Biomedical Sciences Graduate Program, University of Kentucky; 04/13/07
139. *Cytokine Effects on Skeletal Muscle: Does It Matter?* American Thoracic Society / American Thoracic Society International Conference, San Francisco; 05/21/2007.
140. *Beyond Atrophy: Muscle Weakness in Inflammatory Disease.* American College of Sports Medicine Annual Meeting, New Orleans, LA; 05/30/07.
141. *Translational Research from a Basic Scientist's Perspective.* General Clinical Research Center, University of Kentucky; 07/23/07.
142. *Muscle Weakness and Fatigue: Redox Mechanisms and New Treatment Strategies*; Dean's Distinguished Lecture Series; College of Medicine, University of Kentucky; 09/06/07.
143. *Muscle Disease and Related Research at the University of Kentucky*; interviews on WUKY, 91.3 FM, Lexington, KY; 09/19/07 & 09/26/07.
144. *Building Translational Awareness in a PhD Training Program*; Clinical and Translational Science Fall Conference, University of Kentucky; 09/27/07.
145. Organizer: *Workshop on Muscle Biology*; Clinical and Translational Science Fall Conference, University of Kentucky; 09/27/07.

146. *Inflammatory Mediators and Contractile Dysfunction*; San Antonio Nathan Shock Aging Center Conference; Bandera, TX; 10/26/07.
147. *Cytokines and Catabolic Signaling in Muscle*; Victoria Univ., Melbourne, Australia; 11/30/07.
148. *Redox Modulation of Muscle Contraction*; Australian Physiological Society; Newcastle, Australia; 12/04/07.
149. *Muscle Weakness and Fatigue: Redox Mechanisms and New Treatment Strategies*; national television broadcast; The Research Channel; initial showing 01/01/08. [web archive: http://www.researchchannel.org/prog/displayevent.aspx?rID=21541&fID=567]
150. *Mechanisms of Cachexia*; Pulmonary/Critical Care Medicine; Univ. Kentucky; 04/01/08.
151. *Oxidative Stress and Skeletal Muscle Fatigue*; 55th Annual Meeting, American College of Sports Medicine, Indianapolis; 05/28/08.
152. *Muscle Weakness in Chronic Heart Failure*, Center for Clinical and Translational Science, University of Kentucky; 06/21/08.
153. *NASA Research May Help Weak Patients*, UK HealthCare online video; intial release 08/01/08. [web archive at: http://www.youtube.com/watch?v=2wOb1mIyPRQ]
154. *Muscle Weakness in Inflammatory Disease*; University of Uppsala, Sweden; 09/08/08.
155. *Sphingolipid Signaling and Diaphragm Weakness*; University of Florida; 01/22/09.
156. *Muscle Weakness and Mechanical Unloading*. 29th Congress of the International Society for Intensive Care and Emergency Medicine, Brussels, Belgium; 03/21/09.
157. *Mechanisms of Cachexia in Inflammation.* 29th Congress of the International Society for Intensive Care and Emergency Medicine, Brussels, Belgium; 03/24/09.
158. *Lessons from Chronic Disease: Oxidative Stress and Muscle Fatigue.* International Society for Intensive Care and Emergency Medicine, Brussels, Belgium; 03/24/09.
159. *Reactive Oxygen Species (ROS) Influence Contractile Function*. International Society for Intensive Care and Emergency Medicine, Brussels, Belgium; 03/25/09.
160. *Oxidative Stress and Muscle Fatigue*. 3rd International Symposium on Nutrition, Oxygen Biology, and Medicine, Paris, France; 04/09/09.
161. *ROS as Critical Mediators of Muscle Remodeling in Disease*. Annual Meeting, American College of Sports Medicine, Seattle; 05/27/08.
162. *Oxidative Stress and Muscle Strength*. Abbott Laboratories, Columbus, OH; 06/24/09.
163. *Research Update: University of Kentucky Center for Muscle Biology*; radio interviews on WUKY, 91.3 FM, Lexington, KY; 07/22/09 and 07/29/09.
164. *Mechanisms of Weakness in Chronic Inflammatory Disease*. Graduate Center for Biomedical Engineering, University of Kentucky; 09/18/09.
165. *Reactive Oxygen and Muscle Fatigue*. Aging Muscle Symposium, San Francisco; 10/08/09.
166. *Mentor and Friend*. Jere Mead Memorial Symposium, Harvard University; 11/10/09.
167. *Redox Mechanisms of Muscle Dysfunction in Chronic Disease*; International Leipzig Muscle Symposium, Leipzig, Germany; 12/11/09.
168. *Moving Ahead in Your Academic Career*. Reproductive Forum, Univ. Kentucky; 01/12/10.
169. *Muscle Weakness in Chronic Disease*. Pulmonary Medicine, Univ. of Kentucky; 01/26/10.
170. *Oxidative Stress and Muscle Fatigue*. Experimental Biology '10, Anaheim, CA; 04/26/10.
171. *Sphingolipid Signaling in Skeletal Muscle*. The Muscle Forum, Univ. Kentucky; 05/20/10.
172. *Stretch Stimulates Redox Signaling and Glucose Uptake in Skeletal Muscle*. American College of Sports Medicine Annual Conference. Baltimore; 06/03/10.
173. *Redox Mechanisms of Weakness*. European Muscle Conference, Padua, Italy. 09/11/10.
174. *Redox Control of Skeletal Muscle Contractile Function*. ACSM Conference on Integrated Physiology of Exercise, Miami, FL; 09/23/10.
175. *Keynote Lecture: Free Radicals, Muscle Force and Fatigue: A Quarter Century of Progress.* ACSM Conference on Integrated Physiology of Exercise, Miami, FL; 09/24/10.
176. *Free Radicals, Muscle Force, and Fatigue*. Dept of Physiology, Univ. Kentucky; 01/26/11.
177. *Weakness, Fatigue, and Free Radicals*; Texas A&M University; 04/01/11.
178. *Redox Mechanisms of Muscle Weakness*. Solae, LLC, St. Louis, MO; 05/10/11.
179. *Aging and Weakness*. British Society for Research on Ageing, Brighton, England; 07/14/11.

180. *Mechanisms of Muscle Weakness in the Elderly*. Biotechnology and Biological Sciences Research Council, Liverpool, England; 07/16/11.
181. *Skeletal Muscle in Rheumatoid Arthritis*. The Muscle Forum, Univ. Kentucky, 09/22/11.
182. *Muscle Weakness in Cancer*. Markey Cancer Center, Univ. Kentucky, 02/01/12.
183. *Regulation of Cell Size by nSMase3*. Dept. of Physiology, University of Kentucky; 02/08/12.
184. *Sphingolipid Signaling in Skeletal Muscle*. University of Florida; 02/21/12.
185. *Muscle Weakness in Chronic Inflammation*. University of Pennsylvania; 03/19/12.
186. *Beyond Atrophy.* Texas Tech University Health Sciences Center, El Paso; 05/03/12
187. *Reactive Oxygen Species in Muscle Fatigue.* American College of Sports Medicine annual meeting; San Francisco; 05/31/12.
188. *Inflammation and Muscle Function: Role of Redox Signaling*. Society for Free Radical Research International, London, England; 09/09/12.
189. *Weakness, Fatigue, and Free Radicals*. Science Pub Series, West 6th Brewing Co., Lexington, KY. 12/17/12.
190. *Muscle Weakness in Rheumatoid Arthritis*. Rheumatology Dept., Univ. Kentucky, 03/29/13.
191. *Inflammatory Mediators and Muscle Weakness: Beyond Atrophy*. Dept. of Physical Therapy, University of Florida, 09/11/13.
192. American College of Sports Medicine Texas Chapter Fall 2013 Lecture Tour. 10/07-11/13.
193. *Inflammatory Mediators and Muscle Weakness*. Friedrich Alexander University, Erlangen, Germany. 12/10/13.
194. *Regulation of Cell Size by nSMase3*. Dept. of Applied Physiology & Kinesiology, University of Florida. 01/16/14.
195. *Muscle Weakness in Chronic Inflammatory Disease*. Dept. of Integrative Physiology & Anatomy, University of North Texas Health Science Center, Fort Worth TX. 03/28/14.
196. Invited Participant, *Meet the Expert Networking Session*, ACSM Conference on Integrative Physiology of Exercise. Miami FL. 09/18/14
197. *Use of Antioxidant Supplements to Improve Performance During Endurance Exercise*. ACSM Conference on Integrative Physiology of Exercise. Miami FL. 09/18/14.
198. Section Co-Chair, NIH Workshop: *Understanding the Cellular and Molecular Mechanisms of Physical Activity-Induced Health Benefits*. National Institutes of Health, Bethesda, MD. 10/30/14.
199. *Use of Antioxidant Supplements to Improve Performance During Endurance Exercise*. IPCFEx Congress, Rio de Janiero, Brazil. 11/05/14.
200. *Inflammatory Disease and Muscle Weakness: Beyond Atrophy*. IPCFEx Congress, Rio de Janiero, Brazil. 11/07/14.
201. *Free Radicals, Muscle Weakness, and Fatigue: 25 Years of Progress*. Friedrich Alexander University, Erlangen, Germany. 12/16/2015
202. *Hiring and Firing: Finding the Right Employees*. Experimental Biology 2015, Boston MA. 04/01/15.
203. *Keynote Address: Reactive Oxygen Species as Agents of Fatigue*. ACSM World Congress on the Basic Science of Exercise Fatigue, San Diego CA. 05/28/15.
204. *Inflammatory Disease and Muscle Weakness: Bench to Bedside*. ACSM World Congress on the Basic Science of Exercise Fatigue, San Diego CA. 05/28/15.
205. *Contractile Dysfunction in Chronic Inflammatory Disease*. International Inauguration Symposium 2016, Muscle Research Center Erlangen (MURCE), Friedrich Alexander University, Germany. 07/21/16.
206. *The Inside Story on Academic Leadership*. Department of Biomechanics, University of Nebraska at Omaha. 01/13/17.
207. *Weakness and Fatigue in Chronic Disease*. Oak Hammock at the University of Florida, Gainesville FL. 01/17/17.
209. *The Physiologic Demands of Modern Motorsports*. 2018 Annual Meeting, Southeast Chapter - American College of Sports Medicine (SEACSM), Chattanooga, TN. 02/14/18.
209. *The Physiology of Auto Racing*. Department of Applied Physiology & Kinesiology, University

of Florida, Gainesville FL. 12/06/18.
210. *The Physiology of High Performance Driving*. Porsche Club of America, Suncoast Chapter. Sebring, FL. 11/23-24/19.
211. *Biometrics and Auto Racing*. ICMS Café webinar series, International Council for Motorsports Safety. 05/19/21.
212. *Physiologic Stress in Race Car Drivers*. ICMS Mentoring/Networking Meeting, International Council for Motorsports Safety. 10/19/22.
213. *Physiologic Stress in Auto Racing*. Stetson University, Deland FL. 01/26/23
214. *Physiologic Stress in Auto Racing*. Texas Chapter of the American College of Sports Medicine Annual Meeting, Waco TX. 02/23/23.

III. Publications

A. Peer-Reviewed Articles

1. Johnson, R.L., Jr., and M.B. Reid. Limits of oxygen transport to the diaphragm. *Am Rev Respir Dis* 119: 113-114, 1979.
2. Reid, M.B., and R.L. Johnson, Jr. Maximal blood flow, efficiency, and aerobic work capacity of the canine diaphragm. *J Appl Physiol* 54: 763-772, 1983.
3. Reid, M.B., R. Banzett, H. Feldman, and J. Mead. Reflex compensation of spontaneous breathing when immersion changes diaphragm length. *J Appl Physiol* 58: 1136-1142, 1985.
4. Decramer, M., M.B. Reid, and A. DeTroyer. Relation between parasternal intercostal length and rib cage displacement in dogs. *J Appl Physiol* 58: 1517-1520, 1985.
5. Banzett, R., R. Lansing and M.B. Reid. Reflex compensation of voluntary inspiration when immersion changes diaphragm length. *J Appl Physiol* 59: 611-618, 1985.
6. Banzett, R., J. Lehr, and M.B. Reid. High frequency oscillation of the lung alone lengthens expiration in anesthetized dogs. *Respir Physiol* 61: 57-67, 1985.
7. Reid, M.B., R. Banzett, S. Loring, and J. Mead. Passive mechanics of the upright human chest wall during immersion from hips to neck. *J Appl Physiol* 60: 1561-1570, 1986.
8. Barnas, G.M., R.B. Banzett, M.B. Reid, and J. Lehr. Pulmonary afferent activity during high frequency ventilation at constant mean lung volume. *J Appl Physiol* 61: 192-197, 1986.
9. Decramer, M, J Tian Xi, MB Reid, S Kelly, PT Macklem, M Demedts. Relationship between diaphragm length and abdominal dimensions in dogs. *J Appl Physiol* 61: 1815-1820, 1986.
10. Topulos, G., M.B. Reid, and D.E. Leith. Pliometric activity of inspiratory muscles; maximal pressure-flow curves. *J Appl Physiol* 62: 322-327, 1987.
11. Reid, M.B., G.C. Ericson, H.A. Feldman, and R.L. Johnson, Jr. Fiber types and fiber diameters in the canine respiratory muscles. *J Appl Physiol* 62: 1705-1712, 1987.
12. Reid, M.B., H.A. Feldman, and M.J. Miller. Isometric contractile properties of diaphragm strips from alcoholic rats. *J Appl Physiol* 63: 1156-1164, 1987.
13. Johnson, R.L., Jr., and M.B. Reid. The effects of metabolic blockade on distribution of blood flow to respiratory muscles. *J Appl Physiol* 64: 174-180, 1988.
14. Mead, J., and M.B. Reid. Respiratory muscle activity during repeated air flow interruption. *J Appl Physiol* 64: 2314-2317, 1988.
15. Banzett, R., R. Lansing, M.B. Reid, L. Adams, and R. Brown. 'Air hunger' arising from increased PCO_2 in mechanically-ventilated C_{1-2} quadriplegics. *Respir Physiol* 76: 53-68, 1989.
16. Reid, M.B., and M.J. Miller. Theophylline does not increase maximal tetanic force or diaphragm endurance *in vitro*. *J Appl Physiol* 67: 1655-1661, 1989.
17. Moore, B.J., M.J. Miller, H.A. Feldman, and M.B. Reid. Diaphragm atrophy and weakness in cortisone treated rats. *J Appl Physiol* 67: 2420-2426, 1989.
18. Miller, M.J., K. Shannon, and M.B. Reid. Effect of nifedipine on contractile function of the rat diaphragm *in vitro*. *Life Sci* 45: 2419-2428, 1989.
19. Miller, M.J., K. Shannon, and M.B. Reid. Inhibition by nifedipine of the indirectly induced contractile response of the rat diaphragm. *Life Sci* 45: 2429-2435, 1989.
20. Decramer, M., T.X. Jiang, and M.B. Reid. Respiratory changes in diaphragmatic

intramuscular pressure. *J Appl Physiol* 68: 35-43, 1990.
21. Reid, M.B., K. Shannon, H.A. Feldman, and M.J. Miller. Alcohol protects the diaphragm during dietary restriction. *J Alcoholism: Clin Exp Res* 14: 568-573, 1990.
22. Banzett, R.B., R.W. Lansing, R. Brown, G.P. Topulos, D. Yager, S.M. Steele, B. Londono, S.H. Loring, M.B. Reid, L. Adams, and C.S. Nations. 'Air hunger' from increased PCO_2 persists after complete neuromuscular block in humans. *Resp Physiol* 81:1-18, 1990.
23. Janssens, S.E., E. Derom, M.B. Reid, T.J. Tjandramaga, and M. Decramer. Effects of theophylline on canine diaphragmatic contractility and fatigue. *Am Rev Resp Dis* 144:1250-1255, 1991.
24. Banzett, R.B., J. Mead, M.B. Reid, and G.P. Topulos. Locomotion in man has no appreciable mechanical effect on breathing. *J Appl Physiol* 72: 1922-1926, 1992.
25. Reid, M.B., D.B Parsons, C.J. Giddings, W.J. Gonyea, and R.L. Johnson, Jr. Capillaries measured in canine diaphragm by two methods. *Anat Rec* 234: 49-54, 1992.
26. Reid, M.B., K.E. Haack, K.M. Franchek, P.A. Valberg, L. Kobzik, and M.S. West. Reactive oxygen in skeletal muscle: I. Intracellular oxidant kinetics and fatigue *in vitro. J Appl Physiol* 73: 1797-1804, 1992.
27. Reid, M.B., T. Shoji, M.M. Moody, and M.L. Entman. Reactive oxygen in skeletal muscle: II. Extracellular release of free radicals. *J Appl Physiol* 73: 1805-1809, 1992.
28. Moore, B.J., H.A. Feldman, M.B. Reid. Developmental changes in diaphragm contractile properties. *J Appl Physiol* 75: 1081-1087, 1993.
29. Reid, M.B., F.A. Khawli, and M.R. Moody. Reactive oxygen in skeletal muscle: III. Promotion of contractile function. *J Appl Physiol* 75: 1081-1087, 1993.
30. Reid, M.B., G.J. Grubweiser, D.S. Stokic, S.M. Koch, and A.A. Leis. Development and reversal of fatigue in human tibialis anterior. *Muscle Nerve* 16: 1239-1245, 1993.
31. Reid, M.B., and M.R. Moody. Dimethyl sulfoxide depresses skeletal muscle contractility. *J Appl Physiol* 76: 2186-2190, 1994.
32. Khawli, F.A., and M.B. Reid. N-acetylcysteine depresses contractility and inhibits fatigue of diaphragm in vitro. *J Appl Physiol* 77: 317-324, 1994.
33. Reid, M.B., D.S. Stokic, S.M. Koch, F.A. Khawli, and A.A. Leis. N-acetylcysteine inhibits human muscle fatigue. *J Clin Invest* 94: 2468-2474, 1994.
34. Kobzik, L, MB Reid, DS Bredt, and JS Stamler. Nitric oxide in skeletal muscle. *Nature* 372: 546-548, 1994.
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36. Morrison, R.J., C.C. Miller, II, and M.B. Reid. Nitric oxide effects on shortening velocity and power production in the rat diaphragm. *J Appl Physiol* 80: 1065-1069, 1996.
37. Reid, M.B. Reactive oxygen and nitric oxide in skeletal muscle. *News Physiol Sci* 11: 114-119, 1996.
38. Aghdasi, B, J-Z Zhang, Y Wu, MB Reid, and SL Hamilton. Multiple classes of sulfhydryls modulate the skeletal muscle Ca^{2+} release channel. *J Biol Chem* 272: 3739-48, 1997.
39. Aghdasi, B., M.B. Reid, S.L. Hamilton. Nitric oxide protects the skeletal muscle Ca^{2+} release channel from oxidation induced activation. *J Biol Chem* 272: 25462-25467, 1997.
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contraction coupling in the diaphragm. *Comp Biochem Physiol* 119: 211-218, 1998.
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46. Krause, K.M., M.R. Moody, F.H. Andrade, A.A. Taylor, C.C. Miller, L. Kobzik, and M.B. Reid. Peritonitis causes diaphragm weakness in rats. *Am J Resp Crit Care Med* 157: 1277-1282, 1998.
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63. Reid, M.B., and Y.-P. Li. Cytokines and oxidative signaling in skeletal muscle. *Acta Physiol Scand* 171: 225-232, 2001.
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89. Smith, M., and M.B. Reid. Redox modulation of contractile function in respiratory and limb skeletal muscle. *Resp Physiol Neurobiol* 151: 229-41, 2006.
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92. Moylan, J.S., and M.B. Reid. Oxidative stress, chronic disease, and muscle wasting. *Muscle Nerve* 35: 411-429, 2007.
93. Ferreira, L.F., and M.B. Reid. Muscle-derived ROS and thiol regulation in muscle fatigue. *J Appl Physiol* 104: 853-860, 2007.
94. Reid, M.B. Free radicals and muscle fatigue: of ROS, canaries, and the IOC. *Free Radic Biol Med* 44: 169-79, 2008.
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96. Mazzetti, D.J., M.A. Smith, R.C. Oita, F.-L. Lim, A.J. White, and M.B. Reid. Muscle unloading-induced metabolic remodeling is associated with acute alterations in PPARδ and UCP-3 expression. *Physiol Genomics*, 34: 149-61, 2008.
97. Moylan, J.S., J.D. Smith, M.A. Chambers, T.J. McLoughlin, and M.B. Reid. TNF induction of atrogin-1/MAFbx mRNA depends on Foxo4 expression but not AKT-Foxo1/3 signaling. *Am J Physiol* 295: C986-93, 2008.
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99. Chambers, M.A., J.S. Moylan, J.D. Smith, L.J. Goodyear, and M.B. Reid. Stretch-stimulated glucose uptake in skeletal muscle is mediated by reactive oxygen species and p38 MAP-kinase. *J Physiol* 587: 3363-73, 2009.
100. Chambers, M.A., J.S. Moylan, and M.B. Reid. Physical inactivity and weakness in the critically ill. *Crit Care Med* 37: S337-46, 2009.
101. Ferreira, LF, LA Gilliam, MB Reid. L-2-oxothiazolidine-4-carboxylate reverses glutathione oxidation and delays fatigue of skeletal muscle in vitro. *J Appl Physiol* 107: 211-6, 2009.
102. Li, W., J.S. Moylan, M.A. Chambers, J.D. Smith, and M.B. Reid. Interleukin-1 stimulates catabolism in C2C12 myotubes. *Am J Physiol* 297: C706-14, 2009.
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104. Ferreira, L.F., J.S. Moylan, L.A. Gilliam, J.D. Smith, M. Nikolova-Karakashian, and M.B. Reid. Sphingomyelinase stimulates oxidant signaling to weaken skeletal muscle and promote fatigue. *Am J Physiol*, 299: C552-60, 2010.
105. Andrews, J.L., X. Zhang, J.J. McCarthy, E.L. McDearmon, T.A. Hornberger, B. Russell, K.S. Campbell, S. Arbogast, M.B. Reid, J.R. Walker, J.B. Hogenesch, J.S. Takahashi, and K.A. Esser. CLOCK and BMAL1 regulate MyoD and are necessary for maintenance of skeletal muscle phenotype and function. *Proc Nat Acad Sci (USA)*, 107: 19090-5, 2010.
106. Ferreira, L.F., K.S. Campbell, and M.B. Reid. Effectiveness of sulfur-containing antioxidants in delaying skeletal muscle fatigue. *Med Sci Sports Exerc*, 43: 1025-31, 2010.

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108. Gilliam, L.A., J.S. Moylan, L.A. Callahan, M.P. Sumandea, and M.B. Reid. Doxorubicin causes diaphragm weakness in murine models of cancer chemotherapy. *Muscle Nerve*, 43: 94-102, 2011.
109. Ferreira, L.F., K.S. Campbell, and M.B. Reid. N-Acetylcysteine in handgrip exercise: plasma thiols and adverse reactions. *Int J Sport Nutr Exerc Metab*, 21: 146-54, 2011.
110. Moylan, J.S., and M.B. Reid. Beyond atrophy: redox mechanisms of muscle dysfunction in chronic inflammatory disease. *J Physiol*, 589:2171-9, 2011.
111. Reid, M.B., and M. Nikolova-Karakashian. Sphingolipid metabolism, oxidant signaling, and contractile function of skeletal muscle. *Antiox Redox Signal*, 15: 2501-2517, 2011.
112. Smith, J.D., J.S. Moylan, B.J. Hardin, M.A. Chambers, S. Estus, G.C. Telling, and M.B. Reid. Prion protein expression and functional importance in skeletal muscle. *Antiox Redox Signal*, 15: 2465-2475, 2011.
113. Thornton, A.M., X. Zhao, N. Weisleder, L.S. Brotto, S. Bougoin, T.M. Nosek, M.B. Reid, B. Hardin, Z. Pan, J. Ma, J. Parness, and M. Brotto. Store-Operated Ca^{2+} Entry (SOCE) contributes to normal skeletal muscle contractility in young but not in aged skeletal muscle. *Aging* 3: 621-634, 2011.
114. Gilliam L.A., J.S. Moylan, E.W. Patterson, J.D. Smith, A.S. Wilson, Z. Rabbani, M.B. Reid. Doxorubicin acts via mitochondrial ROS to stimulate catabolism in C2C12 myotubes. *Am J Physiol* 302: C195-202, 2012.
115. Ferreira, L.F., J.S. Moylan, S. Stasko, J.D. Smith, K.S. Campbell, and M.B. Reid. Sphingomyelinase depresses force and calcium sensitivity of the contractile apparatus in mouse diaphragm muscle fibers. *J Appl Physiol*, 112: 1538-1545, 2012.
116. Sieck GC, Ferreira LF, Reid MB, Mantilla CB. Mechanical properties of respiratory muscles. *Compr Physiol*, 3:1553-67, 2013.
117. Stasko, S.A., B.J. Hardin, J.D. Smith, J.S. Moylan, and M.B. Reid. TNF signals via neuronal-type nitric oxide synthase and reactive oxygen species to depress specific force of skeletal muscle. *J Appl Physiol*, 114: 1629-36, 2013.
118. Moylan, J.S., J.D. Smith, E.M. Wolf Horrell, J.B. McLean, G.M. Deevska, M.R. Bonnell, M.N. Nikolova-Karakashian, and M.B. Reid. Neutral sphingomyelinase-3 mediates TNF-stimulated oxidant activity in skeletal muscle. *Redox Biol*, 2: 910-20, 2014.
119. Reid, M.B., A.R. Judge, and S.C. Bodine. CrossTalk proposal: The dominant mechanism causing disuse muscle atrophy is proteolysis! *J Physiol*, 592: 5345-7, 2014.
120. Friedrich, O., M.B. Reid, G. Van den Berghe, I. Vanhorebeek, G. Hermans, M.M. Rich, and L. Larsson. The sick and the weak: neuropathies/myopathies in the critically ill. *Physiol Rev,* 95: 1025-109, 2015.
121. Neufer, D., M.M. Bamman, D.M. Muoio, C. Bouchard, D.M. Cooper, B.H. Goodpaster, F.W. Booth, W.M. Kohrt, R.E. Gerszten, M.P. Mattson, R.T. Hepple, W.E. Kraus, M.B. Reid, S.C. Bodine, J.M. Jakicic, J.L. Fleg, J.P. Williams, L. Joseph, M. Evans, P. Maruvada, M. Rodgers, M. Roary, A.T. Boyce, J.K. Drugan, J.I. Koenig, R.H. Ingraham, D. Krotoski, M. Garcia-Cazarin, J.A. McGowan, and M.R. Laughlin. Understanding the cellular and molecular mechanisms of physical activity-induced health benefits. *Cell Metab* 22: 4-11, 2015.
122. Reid, M.B. Redox interventions to increase exercise performance. *J Physiol* 594: 5125-33, 2016.
123. Powers, S.K., G. Lynch, M.B. Reid, and I. Zijdewind. Disease-induced skeletal muscle weakness and fatigue. *Med Sci Sports Exerc* 48: 2307-19, 2016.
124. Reid, M.B. Reactive oxygen species as agents of fatigue. *Med Sci Sports Exerc* 48: 2239-2246, 2016.
125. Friedrich, O, M. Haug, B. Reischl, G. Prolss, L. Kiriaev, S.I. Head, and M.B. Reid. Single muscle fibre biomechanics and biomechatronics – The challenges, the pitfalls, and the future. *Int J Biochem Cell Biol* 114: 105563, 2019. doi: 10.1016/j.biocel.2019.105563. PMID: 31103932

126. Reid, M.B. and T. Lightfoot. The physiology of auto racing. *Med Sci Sports Exerc* 51: 2548-2569, 2019.
127. Reid, M.B. Redox implications of extreme task performance: The case in driver athletes. *Cells* 11(5): 899-919, 2022.
128. Mena, M., Kovbasyuk, L., Ritter, P., Reid, M.B., Friedrich, O., and Haug, M. Redox balance differentially affects biomechanics in permeabilized single muscle fibres – active and passive force assessments with the *MyoRobot. Cells* 11(23): 3215-3228, 2022.

B. Book Chapters, Editorials, and Online Reports.

1. Reid, M.B., *Mechanics, Histology, and Aerobic Work Capacity of the Canine Diaphragm*, Ph.D dissertation; R.L. Johnson, Jr., M.D., faculty advisor; 1980.
2. Reid, M.B. Research update: Alcoholic muscle disease. *US J Drug Alcohol Dep*, June, 1989.
3. Esau, S.A. and M.B. Reid. Pharmacologic enhancement of contractility. In: *Respiratory Muscle Failure,* D.F. Rochester, Associate Editor, from the series *Seminars in Respiratory Medicine,* Rubin Cherniack, Editor. 13: 33-43, 1992.
4. Norfleet, W., and M.B. Reid. Effects of 0-1.8 G_z on abdominal shape. In: *NASA Technical Memorandum 104755: Medical Evaluations on the KC-135, 1991 Flight Report Summary*. C.W. Lloyd, Editor. Houston: NASA Johnson Space Center, p. 227-229, 1993.
5. Andrade, F.H., M.R. Moody, J.S. Stamler, and M.B. Reid. Cytochrome c reduction assay detects nitric oxide release by rat diaphragm. In: *The Biology of Nitric Oxide, Part 5*, E.A. Higgs, Editor. London: Portland Press, Ltd., 1996, p. 45.
6. Reid, M.B. Redox modulation of skeletal muscle contraction by reactive oxygen and nitric oxide. In: *Membranes, Muscle, and Exercise; Proc. 10th Intl. Conf. on Biochemistry of Exercise*, M. Hargreaves, ed.; Human Kinetics. Champaign, IL. 1999, pp. 155-166.
7. Reid, M.B. Muscle fatigue: mechanisms and regulation. In: *Exercise and Oxygen Toxicity*, 2nd ed; CK Sen, L Packer, O Hanninen, eds; Elsevier Science BV, Amsterdam. 1999, pp 599-628
8. Reid, M.B. COPD as a muscle disease. (editorial) *Am J Resp Crit Care Med* 164: 1-2, 2001.
9. Reid, M.B. Is COPD also a disease of skeletal muscle? (letter) *Am J Resp Crit Care Med*, 165: 1337, 2002.
10. Moylan, J.S., W.J. Durham, M.B. Reid. Muscle, oxidative stress, and aging. In: *Oxidative Stress, Exercise, and Aging*, H.M. Alessio & A.E. Hagerman, eds: Imperial College Press, London. 2005, pp. 109-124.
11. Reid, M.B. Waste not, weak not? (editorial) *J Appl Physiol* 100: 1753-1754, 2006.
12. Reid, M.B. Of balance and unbalance. (editorial) *J Appl Physiol* 101: 1011-1012, 2006.
13. Reid, M.B. Oxidant activity in skeletal muscle. (editorial) *J Appl Physiol* 102: 1742, 2007.
14. Reid, M.B. Role of oxidative stress in skeletal muscle and strength. Abbott Nutrition online; http://images.abbottnutrition.com/ANHI2010/MEDIA/6110th%20AN%20Conference%20Reid%20Summary.pdf.-
15. Powers, S.K., M.B. Reid. MIP/MTMR14 and muscle aging. (commentary) *Aging* 2: 538, 2010.
16. Burd, N.A., A. Jeukendrup, M.B. Reid, L.M. Burke, S.J. Stear, L.M. Castell. A-Z of nutritional supplements: dietary supplements, sports nutrition foods and ergogenic aids for health and performance – Part 26. *Br J Sports Med* 45:1163-1164, 2011.
17. Reid, M.B. Weakness, Fatigue, and Free Radicals. Huffines Inst. for Sports Medicine & Human Performance; http://huffinesinstitute.org/resources/videos; 2011.
18. Nikolova-Karakashian, M., and M.B. Reid. The sphingolipid connection in muscle weakness. *ASBMB Today* 12: 31, 2013.

C. Abstracts:

More than 200.

III. Educational Activities

A. Courses Taught

1. *Human Physiology* (HCS 3407); UT Southwestern; 1977-1981.
2. *Medical Physiology* (Physiology 680); UT Southwestern; lab instructor, 1976-1978.
3. *Medical Physiology* (Physiology 680); UT Southwestern; lecturer, 1980-1981.
4. *Respiratory Therapy*; Beth Israel Hospital, Boston; instructor, 1981-1982.
5. *Physiology* (Nursing 404); Simmons College, Boston; 1981-1983.
6. *Mammalian Physiology* (Physiology 700); Harvard Medical School; lab instructor, 1982.
7. *Human Physiology* (NSCI E-163), Harvard Extension School, Cambridge, MA; 1988.
8. *Mammalian Structure and Function* (ESP-222); Harvard School of Public Health; 1985-1989.
9. *The Human Organism* (Science B-23), Harvard College; lecturer, 1987-1989.
10. *Human Physiology* (ESP 205), Harvard School of Public Health; lab instructor, 1983-1984.
11. *Human Physiology* (ESP 205), Harvard School of Public Health; lecturer, 1985-1988.
12. *Pulmonary/Critical Care Research Conference*; BCM; 1990-1994.
13. *Respiratory Physiology for Physicians*; BCM; 1990-2000.
14. *Medical Physiology* (361-402); BCM; 1994-2000.
15. *Transmembrane Signaling and Ion Channels* (360-465); BCM; 1996-2001.
16. *Research Design* (220-552); BCM; 1998-2001.
17. *Foundations Basic to the Science of Medicine* (Fall 1); BCM; 2001.
18. *Medical Physiology* (PHYS2001); BCM; 2001-2003.
19. *Advanced Physiology for Cardiology Fellows*; UK; 2005.
20. *Physiology and Functioning of the Singing Voice* (MUS 665); UK; 2007-2008.
21. *Stability of Life in an Unstable World* (DSP 130-001); UK; 2009.
22. *Integrated Biomedical Systems* (IBS-606); UK; 2005-2012.
23. *Introductory Physiology* (PGY-206, fall and spring); UK; 2004-2013.
24. *Advanced Respiratory Physiology* (PGY-609); UK; 2005-2013.
25. *Advanced Skeletal Muscle Biology* (PGY-630); UK; 2006-2013.
26. *Exercise Metabolism* (APK 7117); Univ. of Florida; 2016-2019.
27. *Clinical Exercise Physiology* (APK 4120); Univ. of Florida; 2016-2020.
28. *APK Undergraduate Research* (APK 4912); Univ. of Florida; 2022-present

B. Curriculum Development

1. Section Organizer, *The Human Organism* (Science B-23), Harvard College; 1983-1986.
2. Director, *Human Physiology* (ESP-205), Harvard School of Public Health; 1989.
3. Director, *Pulmonary/Critical Care Research Conference*; BCM; 1990-1994.
4. Member, Curriculum Committee; *Respiratory Pathophysiology*; BCM; 1994-2002.
5. Director, *Transmembrane Signaling and Ion Channels* (Physiology 465); BCM; 1995-1997.
6. Director, *Respiratory Physiology for Physicians*; BCM; 1990-2003.
7. Member, Fall I Curriculum Task Force, BCM; 2000-2001.
8. Member, Allied Health Curriculum Subcommittee, BCM; 2002-2003.
9. Founding Director, *Advanced Skeletal Muscle Biology* (PGY-630); UK, 2006.
10. Co-Director, *Integrated Biomedical Systems* (IBS-606); UK, 2005-2007.
11. Member, M1 Curriculum Oversight Committee, UK, 2011-2013.
12. Member, M2 Integrated Systems Curriculum Committee, UK, 2012-2013.

C. Clinical Instruction

1. Respiratory Therapy, Harris Hospital, Fort Worth, TX, 1973-1975.
2. Respiratory Therapy, Presbyterian Hospital, Dallas, TX; 1976-1981.

D. Research Fellows

1. Barbara J. Moore, M.D., Pediatric Pulmonology, Harvard; 1987-1989.
2. Fadi A. Khawli, M.D.; Pulmonary/Critical Care, BCM; 1991-1994.
3. Jose Teran, M.D.; Pediatric Pulmonology, BCM; 1992-1994.
4. R.J. Morrison, M.D.; Pulmonary/Critical Care, BCM; 1993-1995.

5. Raju Z. Abraham, M.D.; Pulmonary/Critical Care, BCM; 1993-1995.
6. Salim Surani, M.D.; Pulmonary/Critical Care, BCM; 1994-1995.
7. Kevin M. Krause, Ph.D.; Physiology, BCM; 1994-1996.
8. Francisco H. Andrade, Ph.D.; Physiology, BCM; 1994-1997.
9. Joao G. Pantoja, M.D.; Pulmonary/Critical Care, BCM; 1995-1997.
10. Mohammed Baba, M.D.; Pulmonary/Critical Care, BCM; 1995.
11. Iwona Bielawska, M.D.; Pulmonary/Critical Care, BCM; 1996.
12. Coral L. Murrant, Ph.D.; Physiology, BCM; 1996-1997.
13. Wulf Hirschfield, M.D.; Pulmonary/Critical Care, BCM; 1997-1998.
14. Kimberly Walker, B.S.; American Physiological Society; 1998.
15. Fidaa Shaib, M.D.; Pulmonary/Critical Care, Univ. Texas Med. School, Houston; 2000-01.
16. Joseph John, M.D., Ph.D.; Pulmonary/Critical Care, BCM; 2000-2001.
17. Amit Vorha, M.D.; Pediatric Pulmonary, BCM; 2000-2002.
18. Mehran Ferid, M.D.; Pulmonary/Critical Care, BCM. 2002-2003.
19. William Durham, Ph.D.; Physiology, BCM; 2001-2003.
20. Yves Matuszczak, M.D.; Physiology, BCM and UK; 2002-2004.
21. Sandrine Arbogast, Ph.D.; Physiology, BCM and UK; 2002-2005.
22. Leonardo Ferreira, PhD; Physiology, UK. 2007-2010.

E. Graduate Students

1. Leonard P. Andres; rotation advisor; Respiratory Biology Program, Harvard; 1988-1989.
2. Ning Wang; rotation advisor; Respiratory Biology, Harvard; 1989.
3. F.H. Andrade; diss. committee; Univ. Texas Health Science Center, San Antonio; 1992-1994.
4. Coral L. Murrant; external examiner; Univ. of Guelph, Ontario, Canada; 1995.
5. David M. Egelman; dissertation committee; Neuroscience, BCM; 1996.
6. Carl Brown; qualifying examination committee; Cell Biology, BCM; 1996.
7. Bahman Aghdasi; dissertation committee; Physiology & Biophysics, BCM; 1995-1997.
8. Catherine P. Moore; dissertation committee; Physiology & Biophysics, BCM; 1996-2000.
9. Julianne S. Clancy; dissertation advisor; Physiology & Biophysics, BCM; 1997-1999.
10. George G. Rodney; dissertation committee; Physiology & Biophysics, BCM; 1997-2000.
11. Coleen M. Atkins; dissertation committee; Neuroscience, BCM; 1997-1999.
12. Chris Carlson; external examiner; Univ. of Texas Medical School, Houston; 1998-2000.
13. Yue Wei; rotation advisor; Physiology & Biophysics, BCM; 1998.
14. David R. Plant; external examiner; Univ. of Melbourne, Australia; 2000.
15. Savita Khanna; external examiner; Univ. of Kuopio, Finland; 1999-2000.
16. Wei Tang; dissertation committee, Physiology & Biophysics, BCM; 2000-2004.
17. Francisco Leyva; rotation advisor; Physiology & Biophysics, BCM; 2001.
18. Jacqueline Johnson; dissertation committee; Physiology & Biophysics, BCM; 2001-2003.
19. Wei Wang; dissertation committee; Pharmacology, BCM; 2001-2003.
20. R. Langen; ext. examiner; Nutrition & Toxicology Inst., Maastricht, Netherlands; 2002-2003.
21. Melissa Smith; rotation advisor, Integrated Biomedical Sciences (IBS) Program, UK; 2004.
22. Melissa Smith Chambers, dissertation advisor; Physiology, UK; 2004-2008.
23. Thomas J. Dore; rotation advisor; IBS Program, UK; 2004.
24. Brigham Barber; rotation advisor; IBS Program, UK; 2004.
25. Wei Li; rotation advisor; IBS Program, UK; 2004.
26. Miranda Byse; rotation advisor; IBS Program, UK; 2005.
27. Jeremy Mathenia; rotation advisor; IBS Program, UK; 2005.
28. Alison Miller; dissertation committee; Physiology, UK; 2004-2007.
29. Amanda Baker Waterstrat; dissertation committee; Physiology, UK; 2005-2008.
30. Erin Oakley; dissertation committee; Physiology, UK; 2005-2008.
31. Ivan Medved; external examiner; Victoria University, Melbourne, Australia; 2005.
32. Sadie Hebert; dissertation committee; Pharmacology, UK; 2005-2008.
33. Lan Chi Loo; dissertation advisor; Nutritional Sciences, UK; 2005-2007.

34. Wei Li; thesis advisor; Physiology, UK; 2005-2006.
35. Thomas J. Dore; thesis committee; Physiology, UK; 2005-2006.
36. Brigham Barber; thesis committee; Physiology, UK; 2005-2006.
37. Deanna Edwards; rotation advisor, IBS Program, UK; 2005.
38. Brent Grubb; thesis co-advisor; Kinesiology, UK; 2005-2006.
39. Christopher van der Poel; external examiner; La Trobe University, Bundoora, Australia; 2006.
40. Terrance Moonapar; external examiner; Univ. of Sydney, Australia; 2006.
41. Gretchen Smith; rotation advisor; IBS Program, UK; 2006.
42. Fanmuyi Yang; rotation advisor; IBS Program, UK; 2006.
43. Laura Ashley; rotation advisor; IBS Program, UK; 2006.
44. Kinnera Erupaka; thesis committee, Biomedical Engineering, UK; 2006-2007.
45. Sheldon Barnes; rotation advisor, Medical Sciences Graduate Program, UK; 2006.
46. Jeremy Burton; rotation advisor; Medical Sciences, UK; 2006.
47. Edward Chang; rotation advisor; IBS Program, UK; 2007.
48. Vidya Nukala; thesis committee; Anatomy and Neurobiology, UK; 2007.
49. Jorge Gamboa; dissertation committee; Physiology, UK; 2007-2009.
50. Vasudevan Bakthavatchalu; dissertation committee; Toxicology, UK; 2007-2010.
51. Yeng Deng; thesis committee; Anatomy and Neurobiology, UK; 2007.
52. Gretchen Wolff; dissertation committee; Physiology, UK; 2007-2012.
53. Kinnera Erupaka; dissertation committee; Biomedical Engineering, UK; 2007-2011.
54. Laura Ashley Gilliam; dissertation advisor; Physiology, UK; 2007-2010.
55. Sean Stasko; rotation advisor; IBS Program, UK; 2009-2010.
56. Julie McLean; rotation advisor; IBS Program, UK 2011-2012.
57. Katherine Moore, RN; dissertation committee; Nursing, UK; 2010-2012.
58. Jason Groshong; dissertation committee; Physiology, UK; 2010-2013.
59. Erin Wolf; dissertation advisor; MD/PhD Program, UK; 2010-2013.
60. Sean Stasko; dissertation advisor; Physiology, UK; 2010-2013.
61. Julie McLean; dissertation advisor; Physiology, UK 2012-2013.
62. Kathryn Patrick, MD; thesis committee; Maternal & Fetal Medicine, UF; 2017.
63. Alex Mattingly; dissertation committee; Appl. Physiol & Kinesiol., UF; 2017-2019.
64. Rachel Kelley; dissertation committee; Appl. Physiol & Kinesiol., UF; 2017-2020.
65. Dongwoo Hahn; dissertation committee; Appl. Physiol. & Kinesiol., UF; 2019-2021.

F. Undergraduate and High School Students (research advisor)

1. Sheng-Shih 'Nancy' Wu (Mt. Holyoke College); Summer Medical and Research Training (SMART) Program, BCM; 1991.
2. Brett E. Miller (Hiram College); SMART Program, BCM; 1992-1993.
3. Elliott R. Carlisle (Univ. California, Berkley); SMART Program, BCM; 1994.
4. Mikka M. Olson (Iowa State Univ.); SMART Program, BCM; 1995.
5. Benjamin Greller (Brown Univ.); SMART Program, BCM; 1996.
6. Faisal Uddin (Univ. of Texas, Austin); Pulmonary Medicine, BCM; 1996-1997.
7. Dhawal Goradia (Reed College); Pulmonary Medicine, BCM; 1997.
8. Joohee Moonat (Wellesley College); Pulmonary Medicine; BCM; 1997-1998.
9. Justin Hammons; Science Outreach Program, UK; 2004.
10. Melinda Nitz (Wheaton College); Physiology, UK; 2004.
11. Allison Whaley (Washington Univ); Physiology, UK; 2004.
12. Andy Walters (Notre Dame); Science Outreach Center, UK; 2005.
13. HyeMi Lee; Biology/BIO-395, UK; 2005-2006.
14. Emily Steiner (Henry Clay HS); Physiology, UK; 2007.
15. Nathan Watson; Biology/BIO-395, UK; 2007-2008.
16. Elizabeth Meredith (Transylvania Univ.); Physiology, UK; 2007.
17. Alonzo Ryan; Kinesiology, UK; 2008.
18. Elaine Patterson; College of Medicine, UK; 2009.

19. Brice Childers; Science Outreach Center, UK; 2009.
20. Braxton Branham; Biology/BIO-395, UK; 2009.
21. Anne Shelby Wilson (Transylvania Univ.); Physiology, UK 2009.
22. Priyanka Patel (Transylvania Univ.); Physiology, UK; 2010-2011.
23. EmmaMarie Reynolds (Henry Clay HS); Physiology, UK; 2011.
24. Ashley Pekrul; Kinesiology, UK; 2011-2012.
25. Weston Dicken; Biology, UK; 2011-2013.
26. Zaheen Rabbani; Biology, UK; 2010-2013.
27. Sara Tahir, UF; 2022-present.

IV. Administrative Activities (noneducational)

A. National Offices

1. Co-Chair, New England Physiologists Meeting, Boston, MA, 1982.
2. Organizer, *Oxygen Radicals and Nitric Oxide in the Respiratory Muscles*, Houston, 1994.
3. Chair, Program Committee, Respiratory Structure and Function (RSF) Assembly, American Thoracic Society (ATS), 1998-1999.
4. Organizer, RSF Assembly Dinner, ALA/ATS International Conference, 1998 and 1999.
5. Chair, Long Range Planning Committee, RSF Assembly, ATS, 1999-2001.
6. Chair, Respiratory and Applied Physiology (RAP) Study Section, NIH, 2000-2001
7. Chair, Skeletal Muscle Biology (SMEP) Study Section, NIH, 2001-2002
8. Chair, RSF Assembly, American Thoracic Society, 2004-2006.
9. Board of Directors, American Thoracic Society, 2004-2006.
10. Chair, Mechanisms of Exercise-Induced Health Roundtable, National Institute of Arthritis and Musculoskeletal Diseases, Bethesda, MD, 2010.
11. Councilor, Association of Chairs of Departments of Physiology, 2010-2012.
12. President Elect, Association of Chairs of Departments of Physiology, 2012-2013.

B. Institutional Offices

1. Chair, Research Committee, Pulmonary/Critical Care Medicine Section, BCM, 1995-98.
2. Management Committee, AstraZeneca-Baylor Research Alliance, 1996-2002.
3. Chair, Faculty Search Committee, Molecular Physiology & Biophysics Dept., BCM, 2000-01.
4. Interim Chief of Research, Pulmonary and Critical Care Medicine Section, BCM, 2001-03.
5. Faculty Sponsor, Disney Campus Representative Program, UK, 2006-11
6. Chair, Research Affairs Advisory Group, College of Medicine, UK, 2008-09.
7. Chair, Educational Subcommittee, LCME Internal Review, College of Medicine, UK, 2009-10.
8. Research Resources Advisory Group, College of Medicine, UK, 2008-10.
9. Presiding Secretary, Council of Endowed Professors and Chairs, UK, 2010-2011.
10. Chair, Physician Scientist Advisory Committee, College of Medicine, UK, 2010-2011.
10. Chair, Biomedical Science Advisory Board, College of Medicine, UK, 2011-2013.
11. Chair, Biomedical Science Executive Council, College of Medicine, UK, 2011-2013.
12. Chair, Provost Search Committee, Office of the President, UK, 2012-2013.
13. Vice President/Secretary Treasurer, Board of Directors, Oak Hammock at the Univ of Florida, 2014-2018.
14. Chair/Chair Elect, UF Campaign for Charities, 2014-2016.
15. Chair, Dean Search Committee, UF College of Journalism & Communication, 2020.

C. National and State Committees

1. Texas Board of Higher Education Math and Science Hotline, 1995-1999.
2. Long-Range Planning Committee; RSF Assembly, American Thoracic Society, 1996-2001.
3. National Youth Leadership Forum, 1998.
4. Joint Committee on Skeletal Muscle Dysfunction in Chronic Obstructive Pulmonary Disease, American Thoracic Society and European Respiratory Society, 1997-1998

5. Nominating Committee, American Thoracic Society, 1998-1999.
6. Program Committee, American Thoracic Society, 1994-2004.
7. Finance Committee, American Physiological Society, 2008-2011.
8. ACSM/NIH Translational Science Teleconference, 2011-2013.
9. ACSM Science Integration and Leadership Committee, 2012-2015.
10. ACSM Motorsports Task Force, 2013-2018.
11. Board of Directors, Friends of Florida History; Florida Dept. of State, 2016-2018.

D. Institutional Committees

1. Research Advisory Committee, Dept. of Medicine BCM, 1995-98.
2. Graduate Education Committee, Dept. Molecular Physiology & Biophysics, BCM, 1996-2001.
3. Faculty Search Committee, Dept. of Medicine, BCM, 1998-1999.
4. Compensation and Incentives Task Force, Dept. of Medicine, BCM, 2000.
5. Committee for Interim Research Funding, Dept. of Medicine, BCM, 2001-03.
6. Merit Program Committee, Dept. of Medicine, BCM, 2001-03.
7. Research Committee, Dept. of Medicine, BCM, 1998-2003.
8. Staff Overload Policy Work Group, Office of the Controller, UK, 2004.
9. Associate Dean for Research Search Committee, College of Health Sciences, UK, 2003-06.
10. Faculty Search Committee, Dept. of Physiology, UK, 2003-07.
11. Top 20 Business Plan Steering Committee, Office of the President, UK, 2004-05.
12. Provost Search Committee, Office of the President, UK, 2005.
13. Faculty Search Committee, Graduate Center for Biomedical Engineering, UK, 2006-07.
14. Blue Ribbon Panel on Undergraduate Education, College of Medicine, UK, 2006-08.
15. Committee on the Relocation of Biomedical Engineering, The Graduate School, UK, 2008.
16. Committee on Alzheimer's Disease Center Directorship, College of Medicine, UK, 2008.
17. Strategic Planning Committee for Research Resources, College of Medicine, UK, 2007-09.
18. Physician Scientist / Clinical Scholar Advisory Committee, College of Medicine, UK, 2006-10.
19. Univ. Committee for Academic Planning and Priorities, Office of the Provost, UK, 2006-10.
20. Research Affairs Advisory Group, Office of the Dean, College of Medicine, UK, 2007-10.
21. LCME Site Visit Steering Committee, College of Medicine, UK, 2009-10.
22. Reorganization Committee, Office of the Dean, College of Medicine, UK, 2010-11.
23. College of Medicine Dean Search Committee, Office of the Provost, UK, 2010-11.
24. Department Chair Advisory Board, Office of the Provost, UK, 2007-11.
25. Steering Committee, Council of Endowed Professors and Chairs, UK, 2009-11.
26. Educational Incentive Working Group, Office of the Provost, UK, 2010.
27. College of Health Sciences Assessment Committee, Office of the Provost, UK, 2011.
28. Executive Committee, UK Healthcare, 2010-11.
29. External Review Committee, UK Center for Biomedical Engineering, 2012.
30. iWin Strategic Planning Group, UK Office of the Provost, 2012-2013.
31. Search Committee, Dean, UF College of Law, 2015.
32. Search Committee, UF Vice President for Student Affairs, 2015-2016.
33. Steering Committee, UF Budget Review, 2015-2018.
34. Alachua County Alcohol Coalition, 2016-2017.
35. Strategic Development Plan Steering Committee, University of Florida, 2016.
36. Board of Trustees, St. Augustine Lighthouse & Maritime Museum, 2016-2019.
37. Deans & Directors Development Council, UF Foundation, 2014-2021.
38. Dean Search Committee, College of Medicine, University of Florida, 2019-2020.
39. Extension Roadmap Steering Committee, Institute for Agricultural Sciences, University of Florida, 2020.
40. Advisory Committee, UF Breathing Research and Therapeutics Center, 2015-present.
41. Steering Committee, UF Budget Review, 2021-2022.
42. All-Funds Implementation Team, UF Budget Review, 2021-2022.
43. Executive Committee, Aspire/SEA Change Program, University of Florida, 2021-present.

44. Deans' Council, University of Florida, 2021-present.