

CURRICULUM VITAE

Esther E.F. Dupont-Versteegden

(August 15, 2011)

Personal data:

Name: Esther Elisabeth Franciscus Dupont-Versteegden
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Education:

Postdoctoral Training: Postdoctoral Fellow, Dept. Geriatrics
University of Arkansas for Medical Sciences, Little Rock, AR (1995-1998)
Advisor: Charlotte Peterson, Ph.D.
Title: Molecular Mechanisms of Muscle Responses to Exercise

Graduate Education: University of Texas Health Science Center
San Antonio, Texas (1989-1995)
Ph.D., Physiology (1995)
Advisor: Roger J.M. McCarter, Ph.D.
Dissertation: Exercise and clenbuterol as modulators of muscular dystrophy in *mdx* mice.

Undergraduate Education: State University of Limburg
Maastricht, The Netherlands (1984-1988)
Doctorandus, Movement Sciences (1988)
(Master's equivalent)
Co-advisors: Eline Lindeman, M.D., Ph.D.
Jos Adam, Ph.D.
Thesis: Relationships between Impairment and Disability in Patients with Neuromuscular Disease

Professional Experience

2008-present Faculty Associate UK Spinal Cord & Brain Injury Research Center
2007-present Associate Professor, Dept. Physiology (secondary appointment)
College of Medicine, University of Kentucky, KY
2006-present Associate Professor, Division of Physical Therapy, Dept. Rehabilitation
Sciences, College of Health Sciences, University of Kentucky, KY
2006-2006 Associate Professor, Dept. Geriatrics
University of Arkansas for Medical Sciences, Little Rock, AR

2006-2006	Associate Professor, Dept. Physiology and Biophysics (Secondary Appointment) University of Arkansas for Medical Sciences, Little Rock, AR
2002-2006	Assistant Professor, Dept. Geriatrics University of Arkansas for Medical Sciences, Little Rock, AR
2002-2006	Assistant Professor, Dept. Physiology and Biophysics (Secondary Appointment) University of Arkansas for Medical Sciences, Little Rock, AR
1999- 2002	Research Assistant Professor, Dept. Geriatrics University of Arkansas for Medical Sciences, Little Rock, AR
1998-1999	Instructor, Dept. Geriatrics University of Arkansas for Medical Sciences, Little Rock, AR
1995-1998	Postdoctoral Fellow, Dept. Geriatrics University of Arkansas for Medical Sciences, Little Rock, AR
1989-1995	Supervisor: Charlotte Peterson, Ph.D. Teaching Assistant, Dept. Physiology University of Texas Health Science Center at San Antonio, TX
1988-1989	Research Associate, Department of Physical Medicine and Rehabilitation Academic Hospital Maastricht Maastricht, The Netherlands

Professional Affiliations:

1991- 1995	American Physiological Society, student member
1995-present	American Physiological Society, member
1995-present	American Association for the Advancement of Science
1996-present	American Association of University Women
2001-present	Researchers against Inactivity-Related Diseases
2003-present	Gerontological Society of America
2006-present	Society for Muscle Biology
2006-present	American Physical Therapy Association, Faculty Partners member

National Society Committee Assignments:

2003-2006	Biological Sciences Section Membership Committee, Gerontological Society of America
2006-2009	Humanities and Arts Committee, Gerontological Society of America
2007-present	Executive Committee Biological Sciences Section, member
2009-2012	Perkins Memorial Award for International Physiologists Committee, American Physiological Society, member
2010-2013	Information Technology Committee, Gerontological Society of America
2010-2012	Chair, Perkins Memorial Award for International Physiologists Committee, American Physiological Society
2010-2012	Ex officio member, International Physiology Committee, American Physiological Society

Honors and Awards:

Caroline Tum Suden Professional Opportunity Award
American Physiological Society (1991)

Ambassador Scholarship Award
The Graduate School of Biomedical Sciences, University Texas Health Science Center San Antonio (1994)

Women's Faculty Association Leadership Award
Women's Faculty Association University Texas Health Science Center San Antonio (1995)

Award for Excellence in Studies in the Department of Physiology
Department of Physiology, University Texas Health Science Center San Antonio (1995)

National Research Service Award
National Institutes of Health (1996-1999)

First Prize Winner Poster Contest (1997)
Research Day at University Arkansas Medical Sciences

Research Grant Award (2000-2001)
American Federation for Aging Research

2004 EBM Best Paper Award (published in Experimental Biology and Medicine)
Society for Experimental Biology and Medicine
Note: Paper received an Editorial Comment in Experimental Biology and Medicine, May 2005

Wethington Award, College of Health Sciences, University Kentucky, 2007-2011

Editor's 'Pick of the Month' for paper published in Physiological Genomics, October 2009

College of Health Sciences Distinguished Excellence in Research Award, 2010

Experimental Gerontology, Top Cited Article, 2008-2010

The Dr. Edward Masoro Outstanding Alumnus Award. Barshop Institute for Longevity and Aging Studies,
San Antonio, Texas, April 27, 2011.

Award and Honors for Supervised Students

Gaines Fellowship Award in the Arts and Humanities, University of Kentucky
Awarded to Ben Barnes, 2009

American Physiological Society Summer Fellowship, Awarded to Ben Barnes, 2009

Professional Activities:

Editorial Board:

- APOPTOSIS: Journal for the International Cell Death Society and the European Cell Death Organization (2005-present)
- American Journal of Physiology: Regulatory, Integrative and Comparative Physiology (2008-present)
- Frontiers in Skeletal Muscle Physiology (2011-present)

Journal Review:- Aging. Clinical and Experimental Research.

- Aging Cell
- American Journal of Physiology Cell Physiology
- American Journal of Physiology Endocrinology and Metabolism
- American Journal of Physiology Regulatory, Integrative and Comparative Physiology
- Apoptosis
- Applied Physiology, Nutrition, and Metabolism
- Brain Research
- Biochemistry and Cell Biology
- Canadian Journal of Physiology and Pharmacology
- Comprehensive Physiology (Reviews)
- European Journal of Applied Physiology

- European Journal of Physiology/Pflügers Archiv
- Exercise and Sport Sciences Reviews
- Experimental Gerontology
- Experimental Physiology
- FASEB Journal
- Free Radical Biology & Medicine
- Journal of Applied Physiology
- Journals of Gerontology: Biological Sciences
- Journal of the American Aging Association
- Mechanisms of Aging and Development
- Muscle & Nerve
- Neuromuscular Disorders
- Neuroscience Letters
- Physical Therapy Journal
- Physiological Research
- PPAR Research
- Proceedings of the Indian National Science Academy
- Spinal Cord
- Trends in Pharmacological Sciences

Book review: - e-books: Physical Activity and Health in the Elderly. Bentham Science Publishers (2009)

- Grant review:**
- Aging Research and Education Center, San Antonio, Texas (2002)
 - Barshop Center for Longevity and Aging Studies, San Antonio, Texas (2003, 2004)
 - The Wellcome Trust, UK (2003, 2007)
 - Canadian Space Agency, Canada (2003)
 - USDA National Research Initiative Competitive Grants Program, Ad Hoc reviewer (2004)
 - National Scientific Advisory Council for the American Federation for Aging Research, (2006)
 - Strategic Promotion of Ageing Research Capacity, UK (2006)
 - National Science Foundation, Ad hoc reviewer (2006, 2007)
 - Dutch Duchenne Parent Project (DPP/NL) (2007)
 - Nathan Shock Pilot Program San Antonio (2007)
 - Clinical Research Feasibility Funds, University Kentucky (2007)
 - Canada Foundation for Innovation (2008)
 - U.S. Civilian Research and Development Foundation (2008)
 - Association Francaise contre les Myopathies (French counterpart of the Muscular Dystrophy Association) (2008, 2009)
 - Claude Pepper Center, University of Florida (2009)
 - Netherlands Organization Scientific Research: Netherlands Genomics Initiative (2010)
 - Dunhill Medical Trust, United Kingdom (2010)
 - Nathan Shock Pilot Grant Program, University of Michigan (2011)

Study Sections:

- American Federation for Aging Research (AFAR) Research Committee (2007, 2008, 2010, 2011)
- American Heart Association (AHA) Basic Cell and Molecular Biology Section (2008)
- Veterans Health Administration, Rehabilitation Research and Development, Neurodegenerative Diseases and Aging (February 2009, August 2009, February 2010, February 2011, August 2011)

Ad Hoc NIH:

- NIA, Program project review, November 2010
- SBIR review, MOSS Q(14)-Small Business: Skeletal Muscle and Exercise Physiology, July 2011 (Chair)
- NIA, Program Project Review, October 2011

Professional Development

2009 – 2010 Circles of Power Leadership Program, University of Kentucky

Committee Assignments:

1990-1991	Graduate Student Association
1991-1992	UTHSC Bookstore Committee
1992-1995	UTHSC Student Health Advisory Committee
1992-1993	Committee on Graduate Studies of the Department of Physiology UT Health Science Center San Antonio
1993-1994	Founder and First President, UTHSCSA Texas Students for Biomedical Research
1994-1995	Member, UTHSCSA Texas Students for Biomedical Research
1993-1994	Student member, Institutional Animal Care and Use Committee, UTHSCSA
1993-1994	Student member, Miniquiz Committee for Medical Student Curriculum Revision, Dept. Physiology, UTHSCSA
1994-1995	Member, Science Education Outreach Committee, UTHSCSA
2002-2004	Professional and Personal Growth and Development Committee, Dept. Geriatrics, UAMS
2003-2006	Member, Institutional Animal Care and Use Committee, UAMS
2003-2006	Member, Women's Faculty Development Caucus
2004-2006	Professional and Personal Growth and Development Committee, Faculty Subcommittee, Dept Geriatrics, UAMS.
2005-2006	Interdisciplinary Biomedical Sciences Advisory Committee, UAMS
2006	Admissions Committee Interdisciplinary Biomedical Sciences Program, UAMS
2006-2007	Research Workgroup, Curriculum Committee, PhD program in Rehabilitation Sciences, College of Health Sciences, University Kentucky
2006-2007	Tracks workgroup, Curriculum Committee, PhD program in Rehabilitation Sciences, College of Health Sciences, University of Kentucky.
2007-2007	Safety Committee, College of Health Sciences, University of Kentucky
2007-2009	Faculty Council, College of Health Sciences, University Kentucky
2007-2008	Research Advisory Committee, alternate member, College of Health Sciences, University Kentucky
2007-2008	Faculty Retreat 2008 Subcommittee, Faculty Council, College of Health Sciences, University Kentucky
2008-2009	Faculty Retreat 2008 Subcommittee, Faculty Council, College of Health Sciences, University Kentucky
2008-2009	2 & 4-year review committee, Department of Rehabilitation Sciences, College of Health Sciences, University of Kentucky
2009-2011	Chair, 2 & 4-year review committee, Department of Rehabilitation Sciences, University of Kentucky
2009-2010	Research Advisory Committee, College of Health Sciences, University of Kentucky, alternate member
2010	Search Committee Clinical Sciences, College of Health Sciences, University of Kentucky
2010	College of Health Sciences Dean Review Committee, University of Kentucky
2010-2012	Research Advisory Council, College of Health Sciences, University of Kentucky, member
2010-2013	University Senate, University of Kentucky
2010-2013	Senate Academic Programs Committee, University of Kentucky
2011	Ad Hoc Selection Committee for Robinson Awards for Graduate Research, College of Health Sciences, University of Kentucky
2011-2012	Performance Review Appeals Committee, College of Health Sciences, University of Kentucky

Research

Areas of Interest: Age-associated changes in skeletal muscle (in particular: atrophy)
Influence of disease, disuse, and/or exercise on muscle properties.
The role of apoptosis in skeletal muscle atrophy.
The role of cold shock protein Rbm3 on muscle properties

Current Grant Support

“Integrated Study of Musculoskeletal Loss and Restoration”

Principal Investigator: Esther E. Dupont-Versteegden, Ph.D.

Agency: NIH, NIAMS/NIA

Type: Research Grant RO1 (AG028925) Period: July 2006-June 2011

Total direct costs: \$1,025,000

“The Role of Endonuclease G in Nuclear Apoptosis of Atrophying Skeletal Muscle”

Principal Investigator: Esther Dupont-Versteegden, Ph.D.

Agency: NIH, NIAMS

Type: Research grant R21 (AR053967) Period: April 2010-March 2012

Total direct costs for 2 years: \$267,750

“Effects of non-oral feeding on infant tongue muscle mass and force”

Principal Investigator: Gilson Capilouto, Ph.D.

Role on project: Co-Investigator

Agency: Kentucky Science & Engineering Foundation

Type: Research grant

Total direct cost 1 year: \$40,736

“The role of satellite cells in adult skeletal muscle growth and maintenance”

Principal Investigators: Charlotte Peterson and John McCarthy

Role on project: Co-Investigator

Agency: NIH, NIAMS

Type: Research grant R01 (AR 060701) Period: September 2010-August 2015

Total direct cost: \$1,250,000

“The generation of a conditionally activated RBM3 transgenic mouse”

Principal Investigator: Esther E. Dupont-Versteegden, Ph.D.

Agency: Office of Research, College of Health Sciences

Type: pilot funding Period: January-June 2011

Total cost: \$4,613

“Gene expression profiling of tibialis anterior muscle in response to compressive loading”

Principal Investigator: Tim Butterfield, Ph.D.

Role in project: Co-I

Agency: Office of Research, College of Health Sciences

Type: pilot funding Period: January-June 2011

Total cost: \$5,625

Pending Grant Support

"Failure of the respiratory muscles: interaction of age and stress"

Principal Investigator: Francisco Andrade, Ph.D.

Role on project: Co-Investigator

Agency: NIH, NIA/NHBLI
Type: Research grant RO1
Total direct cost for 5 years: \$1,250,000
Submitted June 2011
“Time-dependent measurements of cachexia in patients with metastatic pancreatic adenocarcinoma.”
Principal Investigator: Esther Dupont-Versteegden, Ph.D.
Role on Project: Principal Investigator
Agency: Center for Clinical and Translational Science, University of Kentucky
Type: Pilot grant
Submitted: June 10, 2011
Total cost for 1 year: \$25,000

“Cold-inducible RNA binding protein RBM3 as a modulator of skeletal muscle mass”
Principal Investigator: Esther Dupont-Versteegden, Ph.D.
Agency: NIH, NIAMS
Type: Research grant RO1
Submitted: October 2010
Total direct cost for 5 years: \$1,250,000
Not scored, to be resubmitted

“Defining the role of satellite cells in muscle maintenance throughout the lifespan using genetic labeling”
Principal Investigator: Charlotte Peterson, Ph.D. and John McCarthy, Ph.D.
Role on project: Co-Investigator
Agency: NIH, NIA
Type: Research grant RO1 in response to RFA
Submitted: October 2010
Total cost for 5 years: \$1,250,000
Scored: 39

“Massage Therapy: Effects on Muscle Inflammation and insulin sensitivity”
Principal Investigator: Phillip Kern, M.D.
Role on Project: Consultant
Agency: NIH, NCAM
Type: R21 Research grant
Scored: 36

Past Grant Support

“Use of Exercise and Clenbuterol as Strategies to Understand and Alleviate Muscular Dystrophy”
Principal Investigator: Roger J.M. McCarter, Ph.D.
Role on Project: Co-Investigator
Agency: Industry University Cooperative Research Center, The University of Texas Health Science Center at San Antonio.
Type: Research Grant, Period: October 1993-September 1994

“Molecular Mechanisms of Muscle Responses to Exercise”
Principal Investigator: Esther E. Dupont-Versteegden, Ph.D.
Agency: NIH, NIAMS
Type: National Research Service Award (AR08432), Period: July 1996-June 1999
Total direct cost for 3 years: \$82,200

“The Role of Calcineurin in Age-Associated Muscle Atrophy”
Principal Investigator: Esther E. Dupont-Versteegden, Ph.D.
Agency: American Federation for Aging Research
Type: Research Grant (A00117), Period: July 2000-June 2001

Total direct costs: \$50,000

“Impaired Regulation of Muscle Size with Aging”

Principal Investigator: Esther E. Dupont-Versteegden, Ph.D.

Agency: NIH, NIA

Type: Research Grant RO3 (AG20407) Period: February 2002-January 2003

Total direct costs: \$50,000

“Time-Dependent Changes in Cellular Environment Determine the Functional Outcome of Cellular Cardiomyoplasty”

Principal Investigator: Esther E. Dupont-Versteegden, Ph.D.

Agency: American Heart Association

Type: Research Grant (Beginning-Grant-in-Aid: 0265193Z), Period: July 2002-June 2004

Total direct costs: \$110,000

“Investigating Mechanisms of Skeletal Muscle Wasting”

Principal Investigator: Esther E. Dupont-Versteegden, Ph.D.

Agency: College of Medicine, University of Arkansas for Medical Sciences

Type of Grant: Research Pilot Grant, Period: June 2003-May 2004

Total direct costs: \$13,000

“Altering Myoblasts to Enhance Cardiac Implantation”

Principal Investigator: Richard H. Kennedy, Ph.D.

Role on Project: Co-Investigator

Agency: NIH, NHLBI

Type: Research Grant R21 (HL72136), Period: October 2002-September 2005

Total direct costs: \$450,000

“Muscle and Bone Maintenance in Hind Limb Suspended Rats”

Principal Investigator: Charlotte A. Peterson, Ph.D.

Role on Project: Co-Investigator

Agency: NIH, NIAMS

Type: Research Grant RO1 (AR47577), Period: February 2002-January 2007

Total direct costs: \$1,210,000

Invited Lectures and Symposia:

1. Post-natal Myogenesis: Satellite Cells in action! Boston, MA, August, 1998. Title: Analysis of the function and fate of satellite cells in spinal cord transected and exercised rats.
2. Nutrition and Aging XIV: Nutritional Syndromes in the Elderly. Little Rock, AR, September, 1999. Title: Mechanisms of muscle atrophy and hypertrophy.
3. Integrative Biology of Exercise. Portland, ME, September, 2000. Title: Molecular responses controlling muscle mass.
4. Dept. Pharmaceutical Sciences, University of Arkansas for Medical Sciences, Little Rock, AR. March, 2001. Title: Cellular and molecular mechanisms involved in muscle plasticity.
5. Dept. Anatomy and Neurobiology, University of Arkansas for Medical Sciences, Little Rock, AR December 2002. Title: Investigating mechanisms involved in the control of skeletal muscle size.
6. NIA: Apoptosis and Aging Tissues Meeting, Bethesda, MD, March 24-25, 2003 Title: Age-related differences in apoptotic nuclear death during atrophy of skeletal muscle.
7. 3rd Annual Dr. S. Mouchly Small Muscle Symposium. Buffalo, NY, June 19-20, 2003. Title: Exploring the role of satellite cells in adult muscle size regulation.
8. FASEB Summer Research Conference: Skeletal Muscle Satellite Cells. Tucson, Arizona, July 26-31, 2003. Title: The regulation of muscle size is altered with aging: the role of satellite cells and apoptosis.
9. Dept. Geriatrics Grand Rounds: Impaired regulation of muscle size with aging: do stem cells and apoptosis play a role? September, 2003.

10. Dean's Research Forum, University of Arkansas for Medical Sciences. The three A's of frailty: Aging, atrophy and apoptosis in skeletal muscle. May 2004
11. Geriatric Research Conference, Central Arkansas Veterans Health Care System, North Little Rock, AR. Atrophy, Aging and Apoptosis: the regulation of skeletal muscle size with aging. June 2004
12. Gordon Research Conference: Biology of Aging. Aussois, France, September 12-17, 2004. Title: Atrophy and Apoptosis in Aging Muscle.
13. Biochemistry Department University of Arkansas for Medical Sciences. April 27, 2005. Title: The role of apoptosis in skeletal muscle and its relevance to sarcopenia.
14. College of Health Sciences, University of Kentucky, Lexington. September 19, 2005. Title: Controlling skeletal muscle size: a role for nuclear apoptosis?
15. College of Medicine, Orthopaedics, University of Arkansas for Medical Sciences at Little Rock. December 20, 2005. Title: Role of stem cells in skeletal muscle size regulation.
16. Frontiers in Myogenesis meeting. Pine Mountain, GA, May 1, 2006. Title: Translocation of Endonuclease G is associated with nuclear apoptosis at the initiation of muscle atrophy.
17. Department of Aging and Geriatric Research, University of Florida, Gainesville. May 22, 2006. Title: Aging, Atrophy and Apoptosis: Failing "A's" for Frailty.
18. Department of Physiology, University of Kentucky, Lexington, January 31, 2007. Title: Skeletal muscle apoptosis: the potential role of endonuclease G during atrophy.
19. Department of Clinical Sciences, University of Kentucky, Lexington, February 22, 2007. Title: Sarcopenia: molecular mechanisms underlying skeletal muscle atrophy.
20. Department of Graduate Clinical Nutritional Sciences, University of Kentucky, Lexington, March 21, 2007. Title: Skeletal muscle atrophy and aging: double trouble?
21. Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, March 29, 2007. Title: Disuse and aging: double trouble for skeletal muscle?
22. Department of Laboratory Animal Resources, University of Kentucky, Lexington, June 14, 2007. Title: Animal models to mimic disuse atrophy.
23. Department of Pharmacology, University of Kentucky, Lexington, December 13, 2007. Title: Skeletal muscle atrophy with disuse and aging: searching for commonalities and differences.
24. College of Health Sciences, University of Kentucky, April 29, 2008. Title: Age-related differences in muscle properties in the response to disuse.
25. Bispebjerg Symposium on Sports Medicine: Skeletal muscle atrophy, mechanical and molecular adaptations to aging and disuse. Copenhagen, Denmark, December 11, 2008. Title: Is the role of apoptosis the same in sarcopenia and disuse muscle atrophy?
26. Experimental Biology 2010. APS Mentoring Symposium. Title: The other things you do: teaching and service. Anaheim, CA, April 27, 2010.
27. SCOBIRC, University of Kentucky. Title: Cold shock protein RBM3 attenuates cell death in myoblasts. May 20, 2010.
28. Canadian Society for Exercise Physiology. Title: Muscle atrophy and aging: is there a role for apoptosis? Toronto, Canada, November 5, 2010.
29. Barshop Institute For Longevity & Aging, University of Texas Health Sciences Center San Antonio. Title: Aging and Disuse: Double Trouble for Skeletal Muscle. April 28, 2011
30. Muscle Forum. University of Kentucky. Title: Aging and Disuse: Double Trouble for Skeletal Muscle. June 2011

Bibliography:

Peer-reviewed papers:

1. **Versteegden, E.E.F.**, Terpstra-Lindeman, E., and Adam, J.J. Relationships between Impairment and Disability in Patients with Neuromuscular Disease. *Journal of Rehabilitation Sciences*, 2: 72-75, 1989
2. **Dupont-Versteegden, E. E.**, McCarter, R. J. Differential Expression of Muscular Dystrophy in Diaphragm versus Hindlimb Muscles of mdx Mice. *Muscle & Nerve*, 15: 1105-1110, 1992 PMID: 1406767

3. **Dupont-Versteegden, Esther E.**, Baldwin, R. A., McCarter, R. J., and Vonlanthen, M. G.
Does Muscular Dystrophy Affect Metabolic Rate? A Study in mdx Mice. *Journal of the Neurological Sciences*, 121: 203-207, 1994 PMID: 8158216
4. **Dupont-Versteegden, E. E.**, McCarter, R. J., and Katz, M. S.
Voluntary Exercise Decreases Progression of Muscular Dystrophy in Diaphragm of mdx Mice. *Journal of Applied Physiology*, 77: 1736-1741, 1994. PMID: 7836193
5. **Dupont-Versteegden, E. E.**, Katz, M. S., and McCarter, R. J.
Beneficial versus Adverse Effects of Long-term Use of Clenbuterol in mdx Mice. *Muscle & Nerve*, 18: 1447-1459, 1995. PMID: 7477069
6. **Dupont-Versteegden, E. E.**
Exercise and Clenbuterol as Strategies to Decrease Progression of Muscular Dystrophy in mdx Mice. *Journal of Applied Physiology*, 80: 734-741, 1996 PMID: 8964730
7. **Dupont-Versteegden, E. E.**, Kitten, A. M., Katz, M. S., and McCarter, R. J.
Elevated Levels of Albumin in Soleus and Diaphragm Muscles of *mdx* mice. *Proceedings of the Society for Experimental Biology and Medicine*, 213: 281-286, 1996 PMID: 8985313
8. Taylor, J. M., **Dupont-Versteegden, E. E.**, Davies, J. D., Hassell, J. A., Houle, J. D., Gurley, C. M., and Peterson, C. A.
A Role for the ETS Domain Transcription Factor PEA3 in Myogenic Differentiation. *Molecular and Cellular Biology*, 17: 5550-5558, 1997. PMID: 9271430
9. **Dupont-Versteegden, E. E.**, Houlé, J. D., Gurley, C. M., and Peterson, C. A.
Early changes in muscle fiber size and gene expression in response to spinal cord transection and exercise. *American Journal Physiology*, 275: C1124-C1133, 1998. PMID: 9755066
10. **Dupont-Versteegden, E. E.**, Murphy R. J.L., Houlé, J. D., Gurley, C. M., and Peterson, C. A.
Activated satellite cells fail to restore myonuclear number in spinal cord transected and exercised rats. *American Journal Physiology*, 277:C589-C597, 1999. PMID: 10484346
11. Murphy, R.J.L., **Dupont-Versteegden, E. E.**, Peterson, C. A. and Houlé, J. D.
Two experimental strategies to restore muscle mass in adult rats following spinal cord injury. *Neurorehabilitation and Neural Repair*, 13: 125-134, 1999.
12. Peterson, C.A., Murphy, R.J.L., **Dupont-Versteegden, E.E.**, Houlé, J.D.
Cycling exercise and fetal spinal cord transplantation act synergistically on atrophied muscle following chronic spinal cord injury in rats. *Neurorehabilitation and Neural Repair*, 14: 85-91, 2000 PMID: 15470819
13. **Dupont-Versteegden, E.E.**, Murphy, R.J.L., Houlé, J.D., Gurley, C.M., and Peterson, C.A.
Mechanisms leading to restoration of muscle size with exercise and fetal transplants after spinal cord injury. *American Journal Physiology Cell Physiology*, 279: C1677-C1684, 2000. PMID: 11078681
14. Jozsi, A.C., **Dupont-Versteegden, E.E.**, Taylor, J.M., Evans, W.J., Trappe, T.A., Campbell, W.W., and Peterson, C.A.
Aged human muscle demonstrates an altered gene expression profile consistent with an impaired response to exercise. *Mechanisms of Aging and Development*, 120: 45-56, 2000. PMID: 11087903

15. Jozsi, A.C., **Dupont-Versteegden, E.E.**, Taylor-Jones, J.M., Evans, W.J., Trappe, T.A., Campbell, W.W., Peterson, C.A.
Molecular characteristics of aged muscle reflect an altered ability to respond to exercise. *International Journal of Sport Nutrition and Exercise Metabolism*, 11: S7-S13, 2001. PMID: 11915934
16. **Dupont-Versteegden, E.E.**, Knox, M., Gurley, C.M., Houlé, J.D., and Peterson, C.A.
Maintenance of muscle mass is not dependent on the calcineurin/NFAT pathway. *American Journal Physiology Cell Physiology*, 282: C1387-C1395, 2002. PMID: 11997253
17. Fluckey, J.D., **Dupont-Versteegden, E.E.**, Montague, D.C., Knox, M., Tesch, P., Peterson, C.A., Gaddy-Kurten, D.
A rat resistance exercise regimen attenuates losses of musculoskeletal mass during hindlimb suspension. *Acta Physiologica Scandinavica*, 176: 293-300, 2002. PMID: 12444935
18. **Dupont-Versteegden, E.E.**, Houlé, J.D., Dennis, R.A., Zhang, J., Knox, M., Wagoner, G., Peterson, C.A.
Exercise-induced gene expression in soleus muscle is dependent on time after spinal cord injury in rats. *Muscle & Nerve*, 29: 73-81, 2004. PMID: 14694501
19. Lang, J.M., Esser, K.A., **Dupont-Versteegden, E.E.**
Altered activity of signaling pathways in diaphragm and tibialis anterior muscle of dystrophic mice. *Experimental Biology and Medicine*, 229: 503-511, 2004. (Best Paper Award, 2004)* PMID: 15169969
- * Editorial Comment dedicated to this paper: Understanding cellular signaling pathways and their relationship to genotype and phenotype of muscle disease, by Gayle Brazeau in *Experimental Biology and Medicine*, 230: 289-290, 2005
20. Gallegly, J.C., Turesky, N.A., Strotman, B.A., Gurley, C.M., Peterson, C.A., and **Dupont-Versteegden, E.E.**
Satellite cell regulation of muscle mass is altered at old age. *Journal of Applied Physiology*, 97: 1082-1090, 2004. PMID: 15121742
21. Knox, M., Fluckey, J.D., Bennett, P., Peterson, C.A., **Dupont-Versteegden, E.E.**
Hind limb unloading in adult rats using an alternative tail harness design. *Aviation, Space, and Environmental Medicine*, 75: 692-696, 2004. PMID: 15328787
22. Fluckey, J.D., **Dupont-Versteegden, E.E.**, Knox, M., Gaddy, D., Tesch, P.A., Peterson, C.A.
Insulin facilitation of muscle protein synthesis following resistance exercise in hindlimb suspended rats is independent of a rapamycin-sensitive pathway. *American Journal Physiology Endocrinology and Metabolism*, 287: E1070-E1075, 2004. PMID: 15304378
23. Leeuwenburgh, C., Gurley, C.M., Strotman, B.A., and **Dupont-Versteegden, E.E.**
Age-related differences in apoptosis with disuse atrophy in soleus muscle. *American Journal of Physiology Regulatory, Integrative, and Comparative Physiology*, 288: R1288-R1296, 2005. PMID: 15650125
24. Khaidakov, M., Chavannes-Turesky, N., Cooney, C.A., **Dupont-Versteegden, E.E.**, Kennedy, R.H., Siegel, E.R., and Shmookler-Reis, R.J.
Contribution of *de novo* point mutations to the overall mutational burden in mitochondrial DNA of adult rats. *Experimental Gerontology*, 40: 396-402, 2005. PMID: 15919591
25. Fluckey, J.D., Knox, M., Smith, L., **Dupont-Versteegden, E.E.**, Gaddy, D., Tesch, P.A., and Peterson, C.A.
The insulin-facilitated increase of muscle protein synthesis after resistance exercise involves a MAP-kinase pathway. *American Journal Physiology Endocrinology and Metabolism*, 290: E1205-E1211, 2006. PMID: 16418205

26. **Dupont-Versteegden, E.E.**, Fluckey, J.D., Knox, M., Gaddy, D., and Peterson, C.A.
The effect of flywheel-based resistance exercise on processes contributing to muscle atrophy during unloading in adult rats. *Journal of Applied Physiology*, 101: 202-212, 2006. PMID: 16601304
27. **Dupont-Versteegden, E.E.**, Strotman, B.A., Gurley, C.M., Gaddy, D., Knox, M., Fluckey, J.D., and Peterson, C.A.
Nuclear translocation of EndoG at the initiation of disuse muscle atrophy and apoptosis is specific to myonuclei. *American Journal Physiology Regulatory, Integrative, and Comparative Physiology*, 291: R1730-R1740, 2006. PMID: 16873557
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Evidence of MyomiR network regulation of β -myosin heavy chain gene expression during skeletal muscle atrophy. *Physiol. Genomics*, 39: 219-226, 2009 PMID: 19690046; PMCID: 2789671
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34. Xiao, R., Ferry, A.L., and **Dupont-Versteegden, E.E.**
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35. Ferry, A.L., Vanderklish, P.W., and **Dupont-Versteegden, E.E.**
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36. McCarthy, J.J., Mula, J., Miyazaki, M., Erfani, R., Garrison, K., Farooqui A., Srikuea, R, Lawson, B.A., Grimes B., Keller, C., Van Zant, G., Campbell, K.S., Esser, K.A., **Dupont-Versteegden, E.E.**, Peterson, C.A.
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2. Dupont-Versteegden, E.E.

Apoptosis in skeletal muscle and its relevance to atrophy. *World Journal Gastroenterology*, 12: 7463-7466, 2006

3. Marzetti, E., Hwang, J.C.Y., Lees, H.A., Wohlgemuth, S.E., **Dupont-Versteegden, E.E.**, Carter, C.S., Bernabei, R., Leeuwenburgh, C.

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Abstracts:

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* received APS Caroline Tum Suden Professional Opportunity Award.

2. Dupont-Versteegden, E.E., Freyaldenhoven, A.M., McCarter, R.J., and Katz, M.S. Elevated Levels of Albumin in Muscles of mdx Mice. *Faseb J.*, 6: A963, 1992

3. Dupont-Versteegden, E.E. and McCarter, R.J. Spontaneous Exercise Alleviates Muscular Dystrophy in Diaphragm of mdx Mice. *The Physiologist*, 35: 16.8, 1992

4. Dupont-Versteegden, E.E., McCarter, R.J.M. and Katz, M.S. Pulmonary Function is Decreased in mdx Mice. *Faseb J.*, 8: A901, 1994

5. Norton, M.W., **Dupont-Versteegden, E.E.**, and McCarter, R.J. Differential Effects of Voluntary Wheel Running on Tension Generation versus Oxidative Metabolism in mdx Diaphragm. *Faseb J.*, 8: A57, 1994

6. Dupont-Versteegden, E.E., McCarter, R.J. and Katz, M.S. Beneficial and Adverse Effects of Clenbuterol on Muscular Dystrophy in mdx Mice. *Faseb J.*, 9: A656, 1995.

7. Dupont-Versteegden, E.E., Houle, J.D., and Peterson, C.A. Involvement of MyoD and Myogenin in Response to Exercise in Paralyzed Rats. *Faseb J.*, 10: A377, 1996.

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10. Murphy, R.J.L., Peterson, C.A., **Dupont-Versteegden, E.E.**, and Houlé, J.D. Electrical activity has a role in the training-induced increases in skeletal muscle mass in spinal cord injured rats. *Canadian Journal of Applied Physiology*, 23: 496, 1998

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30. Perrien, D.S., Akel, N.S., Suva, L.J., **Dupont-Versteegden, E.E.**, Gaddy, D. Inhibin A reduces bone loss in hind limb suspended mice by increasing osteoblast abundance. *J Bone Miner Res*, Volume 41, Supplement, 2006.
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32. McMullen, C.A., Andrade, F.H., and **Dupont-Versteegden, E.E.** Apoptosis does not increase with age in rat extraocular muscle. *FASEB Journal*, 2008.
33. Nicks, K.M., Palculict, T.B., Akel, N.S., Savage, P.M., **Dupont-Versteegden, E.E.**, Suva, L.J., and Gaddy, D. The short-term deleterious skeletal response to hindlimb suspension involves multi-faceted compromises in cells of the osteogenic lineage. *J Bone Miner Res*, 2008
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35. Wang, X., Leeuwenburgh, C., and **Dupont-Versteegden, E.E.** Intracellular free iron content is highly correlated with muscle fiber size after disuse in aged rats. Methuselah Foundation, Los Angeles, June 28-29, 2008.
 36. **Dupont-Versteegden, E.E.**, Esser, K.A., Peterson, C.A., and McCarthy, J.J. MicroRNA expression is altered during skeletal muscle atrophy. *The Physiologist*, 2008.
 37. Xiao, R. and **Dupont-Versteegden, E.E.** Apoptosis resistance of differentiated myotubes is associated with enhanced anti-death mechanisms. *The Physiologist*, 2008.
 38. McMullen, C.A., Ferry, A., Gamboa, J.L., Andrade, F.H., and **Dupont-Versteegden, E.E.** Age-related changes of cell death pathways in rat extraocular muscle. Adult skeletal muscle symposium: clinical problems, molecular targets. Lexington, KY, 2008
 39. **Dupont-Versteegden, E.E.**, Esser, K.A., Peterson, C.A., and McCarthy, J.J. MicroRNA expression is altered during skeletal muscle atrophy. Adult skeletal muscle symposium: clinical problems, molecular targets. Lexington, KY, 2008
 40. Nicks, K.M., Akel, N.S., Savage, P.M., Palculict, T.B., **Dupont-Versteegden, E.E.**, Suva, L.J., and Gaddy, D. Use it or Lose it: Musculoskeletal adaptation with age. The Endocrine Society's 91st annual meeting, 2009.
 41. Barnes, B., Rich, M. Ferry, A.L, and **Dupont-Versteegden, E.E.** Apoptosis contributes to skeletal muscle atrophy in critical illness myopathy. National Conference on Undergraduate Research. University of Wisconsin, April 2009.
 42. Ferry, A.L., and **Dupont-Versteegden, E.E.** The effects of cold shock protein, RBM3, on skeletal muscle cells in vitro. CCTS Conference Lexington KY, 2009
 43. Ferry, A.L., Vanderklish, P.W., and **Dupont-Versteegden, E.E.** Over-expression of cold shock protein RBM3 is associated with enhanced survival of skeletal muscle cells in vitro. Symposium: Making Muscle in the Embryo and Adult, 2009
 44. Nicks, KM, Akel, NS, Savage, PM, Palculict, TB, **Dupont-Versteegden, EE**, Suva, LJ, and Gaddy, D. The age-dependent responses to disuse and reloading involve compromised proliferation, differentiation, activity, and survival of myogenic and osteoblastic cells. ASBMR, 2009
 45. Barnes, B., Rich, M., Ferry, A.L., and **Dupont-Versteegden, E.E.** Skeletal muscle atrophy in critical illness myopathy is associated with muscle fiber type specific apoptotic responses. Muscle Center Retreat, 2009.
 46. Abshire, S.M., **Dupont-Versteegden, E.E.**, Kelly, D.G., Cunningham, T.J., and Butterfield T.A. Lymphangiogenesis is Dependent upon the Magnitude of Cyclic Compressive Load: Implications for Manual Lymphatic Drainage, ACSM, in press, 2010
 47. Barnes, B. T., Rich, M. M., Ferry, A. L., **Dupont-Versteegden, E. E.** Skeletal muscle atrophy in critical illness myopathy is associated with muscle fiber type specific apoptotic responses. FASEB J, 2010
 48. Kelly, D.G., Abshire, S.M., **Dupont-Versteegden, E.E.**, and Butterfield, T.A. Lymphangiogenesis is Dependent upon the Magnitude of the Compressive Load: Preliminary Implications for Manual Lymphatic Drainage. National Lymphedema Network Conference, 2010.
 49. Fowler, T.W., Nicks, K.M., Akel, N.S., **Dupont-Versteegden, E.E.**, Suva, L.J., and Gaddy, D. Reambulation reverses disuse-stimulated bone loss via normalization of mesenchymal cell and osteoclast differentiation. Endo 2010, Endocrine Society annual meeting. San Diego, CA, June 2010.
 50. Barnes, B. T., Rich, M. M., Ferry, A. L., **Dupont-Versteegden, E. E.** Skeletal muscle atrophy in critical illness myopathy is associated with muscle fiber type specific apoptotic responses. NCUR2010 meeting, Missoula, Montana, April 2010.
 51. McCarthy, J.J., **Dupont-Versteegden, E.E.**, Miyazaki, M., Mula, J., Esser, K.A., Grimes, B., Van Zant, G., Peterson, C.A. Satellite cells are not necessary for skeletal muscle hypertrophy. FASEB Conference: Skeletal Muscle Satellite & Stem Cells, Carefree, AZ, July 2010.
 52. Mitov, M.I., Tilley, A., Patwardhan, A., **Dupont-Versteegden, E.E.**, Campbell, K.S. Sex differences in contractile properties of rat myocardium in response to simulated microgravity. Biophysical Society 55th Annual Meeting, 2011.
 53. Ferry, A.L. and **Dupont-Versteegden, E.E.** Specific mRNAs and miRNAs identified as targets for cold shock protein RBM3. College of Medicine University of Kentucky, October 2010
- * First prize poster winner in staff category.

54. Waters, C.M., Abshire, S.M., **Dupont-Versteegden, E.E.**, Butterfield, T.A. The magnitude of applied cyclic compressive load influences inflammatory cell infiltration but not lymphangiogenesis in healthy skeletal muscle. Center for Muscle Biology Retreat, University of Kentucky, October 2010.
55. McMullen, C.A., Ferry, A.L., Gamboa, J.L., **Dupont-Versteegden, E.E.**, Andrade, F.H. The aging rat diaphragm: changes in contractile function and mitochondria content. Experimental Biology 2011, April 2011.
56. McCarthy, J.J., Mula, J., Miyazaki, M., **Dupont-Versteegden, E.E.**, Keller, C., Esser, K.A., Grimes, B., Van Zant, G., Peterson, C.A. Robust skeletal muscle hypertrophy in satellite cell depleted muscle. Experimental Biology 2011, April 2011.
57. Hoch, J.M., Mula, J., and **Dupont-Versteegden, E.E.** The effects of aging and altered activity on pax-7 positive satellite cells and cross sectional area of soleus muscle in rats. CCTS meeting, Lexington, KY, April 21, 2011
58. White, J.L.R., and **Dupont-Versteegden, E.E.** : Changes in nuclear number and myonuclear domain size with aging. CCTS meeting, Lexington, KY, April 21, 2011
59. Waters, C., **Dupont-Versteegden, E.**, and Butterfield, T.A. Alterations in gene expression due to differing magnitude of cyclic compressive loads in healthy skeletal muscle. Proceedings of American Society of Biomechanics, 2011
60. Waters, C., **Dupont-Versteegden, E.**, and Butterfield, T.A. Effect of cyclic compressive loading on ED1+ and ED2+ macrophages in healthy skeletal muscle in vivo. Proceedings of American Society of Biomechanics, 2011
61. Fowler, T.W., Williams, T., Akel, N.S., Hogue, W., Swain, F., **Dupont-Versteegden, E.E.**, Suva, L.J., and Gaddy, D. Reambulation after disuse causes differential age-dependent responses in bone strength and bone formation in trabecular and cortical bone. ASBMR, 2011
62. Capilouto, G., Cunningham, T., Challa, H., Frederick, E., **Dupont-Versteegden, E.**, Desai, N., and Butterfield, T. Effects of non-oral feeding on infant tongue muscle mass and force. Joint Conference 7th Kentucky Innovation and Entrepreneurship and 16th EPSCoR Conference. May 2011.
63. Capilouto, G.J., Cunningham, T., Challa, H., **Dupont-Versteegden, E.**, Desai, N. and Butterfield, T. Pilot investigation of infant tongue muscle mass and force. American Speech-Language-Hearing Association, November 2011. Chosen for oral presentation.

Patents and Intellectual Property Agreements

1/29/08 Intellectual property disclosure entitled: RNA-binding motif protein-3 (Rbm3) as an adaptive response to environmental stress in skeletal muscle.

Other Scholarly activities:

2008 Served as an Expert for Muscle Physiology in the Muscle Chapter of the textbook entitled: Exercise Physiology, written by Scott Powers and Edward T. Howley.

September 2008-present Director, Muscle Forum, Center for Muscle Biology, University of Kentucky

October 2010 Outside reviewer for Promotion and tenure dossier Dr. Joe Quadrilatero, Department of Kinesiology, University of Waterloo, Canada

Instruction:

Teaching Assistant:

Physiology for Physical Therapy and Occupational Therapy Students, University Texas Health Science Center at San Antonio (1990,1991,1992,1993)

Experiments in Physiology for Graduate Students, University Texas Health Science Center at San Antonio (1991,1992,1993)

Courses taught:

Physiology for Occupational Therapy Students, University Texas Health Science Center at San Antonio. Muscle Physiology (1992,1993,1994)

Summer Class for High School Science Teachers, University of Arkansas for medical Sciences. Muscle Function and Molecular Biology of Muscular Dystrophy (1996)

Telecommunication Outreach Program, University of Arkansas for Medical Sciences. Muscular Dystrophy: Can We Repair Muscle Defects with Gene Therapy? (1998)

Nutrition and Aging XIV: Nutritional Syndromes in the Elderly. Mechanisms of muscle atrophy and hypertrophy. (1999)

Physiology Journal Club: Effects of space flight and hind limb unloading. Dept. Physiology and Biophysics, University of Arkansas for Medical Sciences. (Spring, 2003)

General Physiology Graduate Course: Muscle Physiology. Dept. Physiology and Biophysics, University of Arkansas for Biomedical Sciences (Fall, 2003, 2004, 2005).

Physiology Journal Club: Intracellular Signaling in Skeletal Muscle. Dept. Physiology and Biophysics, University of Arkansas for Medical Sciences. (Spring, 2004)

Physiology Journal Club: Apoptosis. Dept. Physiology and Biophysics, University of Arkansas for Medical Sciences. (Spring, 2006)

Case studies: (1) Neuromuscular Junction; (2) Endocrine: first year medical students. Dept. Physiology and Biophysics, University of Arkansas for Medical Sciences. (Spring, 2006)

Biology of Aging: Muscle Aging. Department of Gerontology, University of Kentucky (Fall 2006, 2007, 2009, 2010)

Neurophysiology, Division of Physical Therapy, College of Health Sciences, University of Kentucky (Fall 2007-2011)

Cell Biology and Signaling I, IBS 603: Cell Death lectures. Integrative Biomedical Sciences Graduate Program, University of Kentucky (Fall 2009, 2010, 2011)

RHB714:Critical Research Appraisal: Panel discussion participant on the value and limitations of basic science. (Spring 2010)

PT686: Skeletal Muscle Plasticity, specialty elective Physical Therapy, University of Kentucky (Spring 2011)

Course Director

Research Design, PT 867, Division of Physical Therapy, College of Health Sciences, University of Kentucky (Summer 2008-2011).

Professional Seminar, RHB 770, Grant writing, Department of Rehabilitation Sciences, Rehabilitation Sciences Doctoral Program, Spring 2010.

Muscle Forum, RHB/PGY625, Department of Rehabilitation Sciences, College of Health Sciences, and department of Physiology, College of Medicine, Fall 2011.

Student Supervision:

June-July 2001: Kimberly Layman, Summer student, Arkansas Math and Science High School.

June-July 2002: Timothy McClure, Second Year Medical Student, UAMS

September 2002: Benjamin Peacock, Rotation, Second Year Physiology Graduate Student, UAMS
June-July 2004: Kellie Nichols, BRIN summer student, Univ Ark Monticello, AR
September-November 2004: Ying Su, Rotation, First Year Physiology Graduate Student, UAMS
March-May, 2005: Kristy Nicks, Rotation, First Year Physiology Graduate Student, UAMS
September 2003-December 2005: Co-advisor for Micheal Knox, Physiology Graduate Student, UAMS
July 2007-June 2008: Xiaoqin Wang, Medical Student, General Clinical Research Center Awardee
April 2007-October 2007: Ellen Sutton and Jennifer Riley, Physical Therapy Research project
May 2007- October 2008: Jeanine Owens and Charity Meyers, Physical Therapy Doctoral Research project.
October 2007-October 2008: Matthew Shewmaker and Gordon Melton, Physical Therapy Doctoral Research project
November 2008-March 2010: Ashley Noel, Kari Hart, Leann Klein, and Barbara Jozwiak, Physical Therapy Doctoral Research Project
August 2008-present: Ben Barnes, Arts and Sciences, Gerontology
August 2008-December 2008: Amy Ferry, PGY 791 Physiology Supervised Research class
April 2009-2011: Academic advisor for Ben Barnes in his major: Aging and Gerontology
June-August, 2009: Alex Wade, Dunbar Math and Science Research project
January- May 2010: Carrie Silkman, Graduate student rotation, Rehabilitation Sciences Graduate Program, UK
January- May 2010: Margo Ubele, graduate student rotation (2 rotations), Integrative Biomedical Sciences graduate program, UK
August 2010-December 2010: Johannah Hoch, research rotation, Rehabilitation Sciences Graduate Program, UK
August 2009-May 2011: Ellen Magee, Physical Therapy Doctoral Research project.
May-August 2011: Aman Shah, University of Kentucky, undergraduate student.
May 2011 – August 2011: Branden Bell, Kentucky State University, undergraduate student.
May 2011-May 2011: Ashley Greenman and Chad Ford, Physical Therapy Doctoral Research project.
August 2010 – May 2013: Autumn Edwards, Kirstin Distler, Amie Caple, and Cameron Fulcher, Physical Therapy Doctoral Research project.
August 2011 – October 2011: Tyler Kirby, research rotation, Integrative Biomedical Sciences graduate program, UK

Chair Dissertation Committee

Christine Waters, Div. Athletic Training, Dept Rehabilitation Sciences, University of Kentucky, 2010-present
Margo Ubele, Dept. Physiology, 2010-on leave of absence

Dissertation Committee:

Nawal Shekhawat, Dept. Pharmacology and Toxicology, Univ Ark Med Sci, Little Rock AR (2004-2006)
Rijin Xiao, Dept. Physiology and Biophysics, Univ Ark Med Sci, Little Rock, AR (2005-2007)
Jorge Gamboa, Dept. Physiology, University of Kentucky (2006-2009)
Stephanie Moore, Dept. Rehabilitation Sciences, University of Kentucky, 2010-present

Thesis Committee

Amy Ferry, Dept. Physiology (Master's thesis), University of Kentucky, 2008-2009.
Christine Waters, Div. Athletic Training, (Master's thesis), University of Kentucky, 2009-2010
Ben Barnes, Gaines Fellowship Thesis, University of Kentucky, 2010-2011.

Dissertation Review (outside reviewer):

Wan-Jung Alice Tsai, Department of Pharmaceutical Sciences, University at Buffalo, New York, 2007.
Melissa Chambers, Department of Physiology, University of Kentucky, KY, 2008
Eun Jin Lee, College of Nursing, University of Kentucky, 2010

Postdoctoral Fellows:

Rijin Xiao, Dept. Rehabilitation Sciences, College of Health Sciences, Univ. of Kentucky, 2007-2008
Janna Jackson, Dept. Rehabilitation Sciences, College of Health Sciences, Univ. of Kentucky, 2011-present

Mentoring:

Serve as mentor through MentorNet, online mentoring service, 2010-present

Curriculum Development:

- Development Aging Biology Track for Interdisciplinary Biomedical Sciences (IBS) Graduate Program, Univ Ark Med Sci, Little Rock AR (2003)
- Development: Journal Club on Aging; Dept. of Geriatrics, Univ Ark Med Sci, Little Rock, AR (2003)
- Development: Biology of Aging Graduate Course (2004)
- Development: Research Design PT867, DPT program, University of Kentucky (2008)
- Development: Specialty elective: Muscle Plasticity, PT686, University of Kentucky (2011)
- Development: Muscle Forum, RHB/PGY625, Center for Muscle Biology, University of Kentucky, (2011)

Educational Committee Assignments

- Course Director: Journal Club on Aging, 2003-2006
- Course Director: Biology of Aging Graduate Course, 2004-2006
- Chair: Aging Biology Track, 2005-2006
- Member IBS Graduate Program Steering Committee, 2005-2006
- Member admissions subcommittee IBS Graduate Program, 2005-2006
- Research Workgroup, Curriculum Committee PhD program in Rehabilitation Sciences, 2006- 2007
- Tracks Workgroup, Curriculum Committee PhD program in Rehabilitation Sciences, 2006-2007

Media Coverage

Lab work featured in article in Lexington Herald Leader Sunday July 24th, 2011