

Curriculum Vitae
Darren Thomas Beck, Ph.D.
Citizenship: United States of America

Contact Information

Edward Via College of Osteopathic Medicine
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Education

2002	B.S.	University of Delaware, Newark, DE Department of Kinesiology and Applied Physiology (Exercise Physiology)
2010	Ph.D.	University of Florida, Gainesville, FL Department of Applied Physiology and Kinesiology (Applied Physiology / Exercise Physiology)
2011-2013	Postdoctoral Fellow	Malcom Randall VA Medical Center, Gainesville, FL Geriatric Research Education and Clinical Center (GRECC) (Pharmacology / Physiology / Translational Research)

Academic and Research Appointments

2015-Present	<u>Assistant Professor:</u> Edward Via College of Osteopathic Medicine-Auburn Campus, Auburn, AL. Department of Cell Biology and Physiology
2013-2015	<u>Assistant Professor:</u> University of Rhode Island, Kingston, RI. Department of Kinesiology Undergraduate Courses Taught: KIN 120 - Weight Training and Physical Conditioning KIN 275 - Introduction to Exercise Science BIO 300 - Applied Human Physiology KIN 300 - Physiology of Exercise KIN 420 - Fitness Programs for Individuals with Chronic Disease
	Graduate Courses Taught: KIN 562 - Advanced Exercise Physiology KIN 564 - Physiology of Aging
2013-2015	<u>Graduate Faculty:</u> University of Rhode Island, Kingston, RI. Graduate School

2011-2013 Research Assistant Professor: University of Florida, Department of Orthopaedics and Rehabilitation, Orthopaedics and Sports Medicine Institute (OSMI), Gainesville, FL.

2011-2013 Postdoctoral Fellow: Malcom Randall VA Medical Center, Geriatric Research Education and Clinical Center (GRECC), Gainesville, FL.

Mentor: Stephen E. Borst, Ph.D., University of Florida Professor and GRECC Research Director. Ronald I. Shorr, M.D., GRECC Director.

2012 Postdoctoral Instructor: University of Florida, Department of Applied Physiology and Kinesiology, College of Health and Human Performance, Gainesville, FL.

Graduate Course Taught:
PET 5936 - Pharmacology for Exercise Science

2005-2010 Predoctoral Fellow: University of Florida, Department of Applied Physiology and Kinesiology, College of Health and Human Performance, Gainesville, FL.

Mentor: Randy W. Braith, Ph.D., Director of Clinical Exercise Physiology/Cardiovascular Laboratory. Dissertation: "Resistance or Endurance Training is Efficacious in Decreasing Central Blood Pressures, Improving Endothelial Function and Vasoactive Balance in Young Prehypertensives"

Committee: Randy W. Braith, Ph.D. (Chair/Mentor), Scott K. Powers, Ph.D., Stephen L. Dodd, Ph.D., Wilmer W. Nichols, Ph.D. (Members)

2006-2007 Adjunct Professor: University of Florida, Department of Applied Physiology and Kinesiology, College of Health and Human Performance, Gainesville, FL.

Undergraduate Course Taught:
APK 4120 - Clinical Exercise Physiology

2002-2004 Graduate Teaching Assistant: University of Delaware, Department of Kinesiology and Applied Physiology, College of Health Sciences, Newark, DE.

Undergraduate Course:
HESC 430 - Exercise Physiology

2002-2004 Graduate Instructor: University of Delaware, Department of Kinesiology and Applied Physiology, College of Health Sciences, Newark, DE.

Undergraduate Courses Taught:
HESC 431 - Exercise Physiology Laboratory
HESC 120 - Physical Education Activity Courses

Publications

Refereed Publications:

Impact factor (*if*) average: 4.05; *h* Index: 10; i10 Index: 13

1. Martin JS, Borges AR, **Beck DT**. Resistance and peripheral conduit artery function are improved following a single, 1-hour bout of peristaltic pneumatic compression. *European Journal of Applied Physiology*. doi: 10.1007/s00421-015-3187-8, 2015.
2. Delmonico MJ, **Beck DT**. The current understanding of sarcopenia: emerging tools and interventional possibilities. *American Journal of Lifestyle Medicine*. doi: 10.1177/1559827615594343, 2015.
3. **Beck DT**, Casey DP, Martin JS, Sardina PD, Braith RB. Enhanced external counterpulsation reduces indices of central blood pressures and myocardial oxygen demand in patients with left ventricular dysfunction. *Clinical and Experimental Pharmacology and Physiology*. 42: 315-320, 2015.
4. Martin JS, Borges AR, Christy JB, **Beck DT**. Considerations for Sphygmocor radial artery pulse wave analysis measurement: Side selection and peripheral arterial blood pressure calibration. *Hypertension Research*. DOI: 10.1038/hr.2015.36, 2015.
5. Beggs LA, Ye F, Ghosh P, **Beck DT**, Conover CF, Balaez A, Miller JR, Philips EG, Zheng N, Williams AA, Aguirre JI, Wronski TJ, Bose PK, Borst SE, Yarrow JF. Sclerostin inhibition prevents spinal cord injury induced bone loss. *Journal of Bone and Mineral Research*. 30(4):681-689, 2015.
6. **Beck DT**, Martin JS, Casey DP, Sardina PD, Avery JC, Braith RW. Enhanced external counterpulsation improves endothelial function and exercise capacity in patients with left ventricular dysfunction. *Clinical and Experimental Pharmacology and Physiology*. 41: 628-636, 2014.
7. **Beck DT**, Yarrow JF, Beggs LA, Otzel DM, Ye F, Conover CF, Miller JR, Balaez A, Combs SM, Leeper AM, Williams AA, Lachacz SA, Zheng N, Wronski YJ, Borst SE. Influence of aromatase inhibition on the bone protective effects of testosterone. *Journal of Bone and Mineral Research*. 29(11): 2405-2413, 2014.
8. Beggs LA, Yarrow JF, Conover CF, Meuleman JR, **Beck DT**, Morrow M, Zou B, Shuster JJ, Borst SE. Testosterone alters iron metabolism and stimulates red cell production independently of dihydrotestosterone. *American Journal of Physiology: Endocrinology and Metabolism*. 307(5): E456-461, 2014.
9. Ye F, McCoy SC, Ross HH, Bernardo JA, Beharry AW, Senf SM, Judge AR, **Beck DT**, Conover CF, Cannady DF, Smith BK, Yarrow JF, Borst SE. Transcriptional regulation of myotrophic actions by testosterone and trenbolone on androgen-responsive muscle. *Steroids*. 87: 59-66, 2014.
10. **Beck DT**, Martin JS, Gurovich AN, Nichols WW, Braith RW. Validity of a novel wristband tonometer for measuring central hemodynamics and augmentation index. *American Journal of Hypertension*. 27(7): 926-931, 2014.
11. Martin JS, **Beck DT**, Braith RW. Peripheral resistance artery blood flow in subjects with abnormal glucose tolerance is improved following enhanced external counterpulsation therapy. *Applied Physiology Nutrition and Metabolism*. 39(5): 596-599, 2014.
12. Borst SE, Yarrow JF, Conover CF, Nseyo U, Meuleman JR, Lipinska J, Braith RW, **Beck DT**, Martin JS, Morrow M, Roessner S, Beggs LA, McCoy SC, Cannady DF, Shuster JJ. Musculoskeletal and prostate effects of combined testosterone and finasteride administration in older hypogonadal men: A

randomized, controlled trial. *American Journal of Physiology: Endocrinology and Metabolism*. 306(4): E433-442, 2014.

13. Yarrow JF, Conover CF, Beggs LA, **Beck DT**, Otzel DM, Baelez A, Combs SM, Miller JR, Aguirre IJ, Neuville KG, Wronski TJ, Bose PK, Borst SE. Testosterone dose-dependently prevents bone and muscle loss in rodents following spinal cord injury. *Journal of Neurotrauma*. 31(9): 834-845, 2014.
14. **Beck DT**, Martin JS, Casey DP, Braith RW. Exercise training improves endothelial function in resistance arteries of young prehypertensives. *Journal of Human Hypertension*. 28(5): 303-309, 2014.
15. Avery JC, **Beck DT**, Casey DP, Sardina PD, Braith RW. Enhanced external counterpulsation improves resistance artery blood flow in patients with coronary artery disease. *Applied Physiology Nutrition and Metabolism*. 39(3): 405-408, 2014.
16. Yarrow JF¹, **Beck DT**¹, Conover CF, Beggs LA, Goldberger BA, Borst SE. Validation of a commercially available human 5 α -dihydrotestosterone immunoassay. *Steroids*. 78(12-13):1220-1225, 2013.
17. **Beck DT**, Martin JS, Casey DP, Braith RW. Exercise training reduces peripheral arterial stiffness and myocardial oxygen demand in young prehypertensives. *American Journal of Hypertension*. 26(9): 1093-1102, 2013.
18. **Beck DT**, Casey DP, Martin JS, Emerson BD, Braith RW. Exercise training improves endothelial function in young prehypertensives. *Experimental Biology and Medicine*. 238(4):433-441, 2013.
19. Yarrow JF, Beggs LA, Conover CF, McCoy SC, **Beck DT**, Borst SE. Influence of androgens on circulating adiponectin in male and female rodents. *Public Library of Science*. 7(10): e47315, 2012.
20. Braith RW, Casey DP, **Beck DT**. Enhanced external counterpulsation for ischemic heart disease: A look behind the curtain. *Exercise and Sports Science Reviews*. July; 40(3):145-152, 2012.
21. Martin JS, **Beck DT**, Aranda JM, Braith RW. Enhanced external counterpulsation (EECP) improves peripheral artery function and glucose tolerance in patients with abnormal glucose tolerance. *Journal of Applied Physiology*. 112(5):868-876, 2012.
22. Martin JS, Casey DP, Gurovich AN, **Beck DT**, Braith RW. Association of age with timing and amplitude of reflected pressure waves during exercise in men. *American Journal of Hypertension*. 24:4; 415-420, 2011.
23. Casey DP, Nichols WW, Conti CR, Choi CY, Khuddus MA, **Beck DT**, Braith RW. Effects of enhanced external counterpulsation on arterial stiffness and myocardial oxygen demand in patients with refractory angina pectoris. *American Journal of Cardiology*. 107:1466-1472, 2011.
24. Braith RW, Conti CR, Nichols WW, Choi CY, Khuddus MA, **Beck DT**, Casey DP. Enhanced external counterpulsation improves peripheral artery flow mediated dilation in patients with chronic angina: A randomized sham-controlled study. *Circulation*. 122:1612-1620, 2010.
25. Martin JS, **Beck DT**, Gurovich AN, Braith RW. The acute effects of smokeless tobacco on central aortic blood pressure and wave reflection characteristics. *Experimental Biology and Medicine*. 235(10): 1263-1268, 2010.
26. Adkisson EJ, Casey DP, **Beck DT**, Gurovich AN, Martin JS, Braith RW. Central, peripheral and resistance arterial reactivity: fluctuates during the phases of the menstrual cycle. *Experimental Biology and Medicine*. 235(1): 111-118, 2010.

27. Gurovich AN, **Beck DT**, Braith RW. Aortic pulse wave analysis is not a surrogate for central arterial pulse wave velocity. *Experimental Biology and Medicine*. 234(11):1339-44, 2009.
28. Braith RW, **Beck DT**. Resistance exercise: training and adaptation and developing a safe exercise prescription. *Heart Failure Review*. 13:69-79, 2008.
29. Casey DP, **Beck DT**, Braith RW. Progressive resistance training without volume increases does not alter arterial stiffness and aortic wave reflection. *Experimental Biology and Medicine*. 232(9): 1228-35, 2007.
30. Casey DP, **Beck DT**, Braith RW. Systemic plasma levels of nitrite/nitrate (NOx) reflect brachial flow-mediated dilation in young men and women. *Clinical and Experimental Pharmacology and Physiology*. 34(12):1291-3, 2007.

Invited Reviews:

1. Delmonico MJ, **Beck DT**. The current understanding of sarcopenia: emerging tools and interventional possibilities. *American Journal of Lifestyle Medicine*. *in press*
2. Braith RW, Casey DP, **Beck DT**. Enhanced external counterpulsation for ischemic heart disease: A look behind the curtain. *Exercise and Sports Science Reviews*. 40(3):145-152, 2012.
3. Braith RW, **Beck DT**. Resistance exercise: training and adaptation and developing a safe exercise prescription. *Heart Failure Review*. 13:69-79, 2007.

Book Chapters (in revision, review, or preparation):

1. **Beck DT**. Appendix A: Common Medications. Riebe D, Ehrman J, Magal M, Liguori G (Eds.). American College of Sports Medicine. *ACSM's Guidelines for Exercise Testing and Prescription (10th Edition)*. Lippincott Williams. *in review*
2. **Beck DT**. Appendix C: Electrocardiogram Interpretation. Riebe D, Ehrman J, Magal M, Liguori G (Eds.). American College of Sports Medicine. *ACSM's Guidelines for Exercise Testing and Prescription (10th Edition)*. Lippincott Williams. *in review*

Manuscripts (in revision, review, or preparation):

1. **Beck DT**, Vincent-Horta LM, Sanders DJ, Martin JS. Acute effects of external pneumatic compression on the aortic pressure waveform and central hemodynamics. *Journal of the American Society of Hypertension*. *in review*
2. Mobley CB, Kephart WC, Fox CD, Conover CF, Beggs, LA, Otzel DM, Balaez A, Yarrow JF, Borst SE, **Beck DT**, Roberts MD. Differential effects of testosterone versus trenbolone on markers of skeletal muscle ribosome biogenesis. *Steroids*. *in review*
3. Dalbo VJ, Roberts MD, Mobley CB, Ballmann C, Kephart WC, Fox CD, Santucci VA, Conover CF, Beggs LA, Balaez A, Hoerr FJ, Yarrow JF, Borst SE, **Beck DT**. Differential effects of testosterone versus trenbolone treatment on skeletal muscle myostatin signaling and its relation to skeletal muscle hypertrophy. *in preparation*
4. **Beck DT**, Martin JS. Enhanced external counterpulsation therapy: a novel strategy for improving quality of life for patients with left ventricular dysfunction (*invited review*). *Future Cardiology*. *in preparation*
5. **Beck DT**. Validity of a novel wristband tonometer for measuring central hemodynamics and augmentation index in patients with coronary artery disease. *American Journal of Hypertension*. *in preparation*

Abstracts

1. **Beck DT**, Casey DP, Martin JS, Sardina PD, Braith RB. Enhanced external counterpulsation reduces indices of left ventricular wasted energy and myocardial oxygen demand in patients with left ventricular function and refractory angina. *FASEB J.* 29:952.11, 2015.
2. Vincent-Horta LM, Sanders DJ, Martin JS, **Beck DT**. Acute effects of external pneumatic compression on peripheral and central hemodynamics. *FASEB J.* 29:LB677, 2015.
3. Martin JS, Borges AR, Christy JB, **Beck DT**. Considerations for pulse wave analysis measurement: Side selection and peripheral arterial blood pressure calibration. *FASEB J.* 29:632.5, 2015.
4. Brooks CM, Kephart WC, Fox CD, Santucci VA, **Beck DT**, Yarrow JF, McCarthy JJ, Borst SE, Roberts MD. Differential effects of testosterone and trenbolone on skeletal muscle markers of ribosome biogenesis. *FASEB J.* 29:825.21, 2015.
5. **Beck DT**, Yarrow JF, Beggs LA, Otzel DM, Ye F, Conover CF, Miller JR, Balaez A, Combs SM, Borst SE. Influence of aromatase inhibitors on the bone protective effects of testosterone. *Med. Sci. Sports Exer.* 46(5S):440-441, 2014.
6. Beggs LA, Ye F, **Beck DT**, Otzel DM, Conover CF, Balaez A, Miller JR, Yarrow JF, Borst SE. Testosterone prevents bone loss in skeletally-mature male rats subsequent to spinal cord injury. *Med. Sci. Sports Exer.* 46(5S):441, 2014.
7. Martin JS, **Beck DT**, Braith RW, FACSM. Resistance arterial function following enhanced external counterpulsation therapy in persons with abnormal glucose tolerance. *Med. Sci. Sports Exer.* 46(5S):659, 2014.
8. Otzel DM, Conover CF, Beggs LA, **Beck DT**, Balaez A, Combs SM, Miller JR, Ye F, Aguirre JI, Neuville KG, Williams AA, Conrad BP, Gregory CM, Wronski TJ, Bose PK, Borst SE, Yarrow JF. Testosterone dose-dependently prevents bone and muscle loss in rodents following spinal cord injury. *Med. Sci. Sports Exer.* 46(5S):440, 2014.
9. Borst SE, Yarrow JF, Conover CF, Nseyo U, Meuleman JR, Lipinska JA, Braith RW, **Beck DT**, Martin JS, Morrow M, Roessner S, Beggs LA, McCoy SC, Cannady DF, Shuster JJ. Musculoskeletal and prostate effects of combined testosterone and finasteride administration in older hypogonadal men. *Med. Sci. Sports Exer.* 46(5S):439-440, 2014.
10. Yarrow JF, Beggs LA, Conover CF, Meuleman JR, **Beck DT**, Morrow M, Borst SE. Testosterone stimulates red cell production independent of dihydrotestosterone. *Med. Sci. Sports Exer.* 46(5S):402, 2014.
11. Ye F, McCoy SC, Ross HH, Bernardo JA, Beharry AW, Senf SM, Judge AR, **Beck DT**, Conover CF, Cannady DF, Smith BK, Yarrow JF, Borst SE. Transcriptional regulation of myotrophic actions by testosterone and trenbolone on androgen responsive muscle. *Med. Sci. Sports Exer.* 46(5S):440, 2014.
12. **Beck DT**, Yarrow JF, Beggs LA, Otzel DM, Ye F, Conover CF, Miller JR, Balaez A, Combs SM, Borst SE. Influence of aromatase inhibition on the bone protective effects of testosterone. *NEACSM*, Providence, RI, 2013.
13. **Beck DT**, Yarrow JF, McCoy SC, Beggs LA, Balaez A, Combs SM, Miller JR, Conover CF, Borst SE. The combined effects of anastrozole and testosterone or trenbolone on prostate and levator ani-bulbo cavernosus mass. *FASEB J.* 27:1150.5, 2013.

14. Beggs LA, **Beck DT**, Conover CF, Ye F, Combs SM, Miller JR, Balaez A, Neuville KG, Wronski TJ, Bose P, Borst SE, Yarrow JF. Testosterone treatment prevents spinal cord injury-induced bone loss in male rats. *FASEB J.* 27:941.4, 2013.
15. Ye F, McCoy SC, Yarrow JF, Conover CF, **Beck DT**, Beggs LA, Beharry AW, Judge AR, Ross HH, Borsa PA, Tillman MD, Conrad BP, Pingel JE, Wronski TJ, Johnson SE, Kristinsson HG, Borst SE. Effect of trenbolone enanthate on protein degradation in levator ani/bulbocavernosus (LABC) muscle in orchectomized rats. *FASEB J.* 27:939.15, 2013.
16. Balaez A, **Beck DT**, Yarrow JF, McCoy SC, Beggs LA, Combs SM, Miller JR, Conover CF, Borst SE. The effects of aromatase inhibition combined with testosterone or trenbolone administration on prostate and skeletal muscle mass. *AMSA*, Gainesville, FL. 2013.
17. Ye F, McCoy SC, Beharry AW, Senf SM, Judge AR, Ross HH, Bernardo JA, **Beck DT**, Beggs LA, Conover CF, Borst SE. Androgen-mediated skeletal muscle recovery involves a late transcriptional program in orchectomized male rats. *Neuromuscular Plasticity Symposium*, Gainesville, FL. 2013.
18. Balaez A, **Beck DT**, Yarrow JF, McCoy SC, Beggs LA, Combs SM, Miller JR, Conover CF, Borst SE. The combined effects of anastrozole and testosterone or trenbolone on prostate and levator ani-bulbo cavernosus mass. *FURC*, Gainesville, FL. 2013.
19. **Beck DT**, Martin JS, Casey DP, Braith RW, FACSM. Exercise training reduces peripheral pulse wave velocity in young prehypertensives. *Med. Sci. Sports Exer.* 44(5):S1;410, 2012.
20. Braith RW, FACSM, Casey DP, Conti CR, Nichols WW, Choi CY, Khuddus MA, **Beck DT**. Enhanced external counter pulsation improves endothelial function in patients with left ventricular dysfunction. *Med. Sci. Sports Exer.* 44(5):S1;165. 2012.
21. Martin JS, **Beck DT**, Aranda JM, Braith RW, FACSM. Enhanced External Counterpulsation Improves Peripheral Artery Function, Redox Balance, and Insulin Resistance in Patients with Abnormal Glucose Tolerance. *Med. Sci. Sports Exer.* 44(5):S1;116-117, 2012.
22. Martin JS, **Beck DT**, Aranda JM, Braith RW. Enhanced external counterpulsation increases GLUT-4 protein expression, capillary density and glucose tolerance in subjects with abnormal glucose tolerance. *FASEB J.* 26:686.18, 2012.
23. **Beck DT**, Martin JS, Casey DP, Braith RW, FACSM. Exercise training improves endothelial function in young prehypertensives. *Med. Sci. Sports Exer.* 2012.
24. Avery JC, **Beck DT**, Casey DP, Conti CR, Nichols WW, Choi CY, Khuddus MA, Braith RW, FACSM. Enhanced external counter pulsation improves exercise capacity in patients with left ventricular dysfunction. *Med. Sci. Sports Exer.* 44(5):S1;165-166, 2012.
25. **Beck DT**, Martin JS, Emerson BD, Casey DP, Braith RW, FACSM. Resistance and endurance training improve endothelial function and vasoactive balance in young prehypertensives. *Med. Sci. Sports Exer.* 43(5):S1:2011.
26. Martin JS, **Beck DT**, Braith RW, FACSM. Enhanced external counterpulsation and glycemic control in CAD patients with type II diabetes mellitus. *Med. Sci. Sports Exer.* 43(5) S1;559-560, 2011.
27. **Beck DT**, Martin JS, Emerson BD, Casey DP, Braith RW. Exercise training improves endothelial function and vasoactive balance in young prehypertensives. *GSC Interdisciplinary Research Conference*, University of Florida, Gainesville, FL. 2011.

28. **Beck DT**, Casey DP, Nichols WW, Choi CY, Khuddus MA, Conti CR, Braith RW. Enhanced external counterpulsation improves redox balance and endothelial function in patients with refractory angina; *Med. Sci. Sports Exer.* 42(5): S1:121-122, 2010.

29. Martin JS, Casey DP, Gurovich AN, **Beck DT**, Braith RW. A prospective look at the impact of aging on central hemodynamics during exercise in men. *Med. Sci. Sports Exer.* 42(5): S1:308, 2010.

30. Gurovich AN, Martin JS, **Beck DT**, Casey DP, Braith RW. Myocardial energetics is altered in patients with coronary artery disease. *Med. Sci. Sports Exer.* 42(5): S1:541, 2010.

31. **Beck DT**, Casey DP, Nichols WW, Choi CY, Khuddus MA, Conti CR, Braith RW. Improvements in redox balance and endothelial function in patients with refractory angina after enhanced external counterpulsation therapy. *GSC Interdisciplinary Research Conference*, University of Florida, Gainesville, FL. 2010.

32. Martin JS, Casey DP, Gurovich AN, **Beck DT**, Braith RW. Central hemodynamics during exercise: The impact of aging across young, middle-aged and elderly men. *GSC Interdisciplinary Research Conference*, University of Florida, Gainesville, FL. 2010.

33. **Beck DT**, Gurovich AN, Martin JS, Nichols WW, Braith RW. Validation of a novel wristband tonometer used for applanation tonometry. *COM Research Conference*, University of Florida, Gainesville, FL. 2009.

34. Martin JS, **Beck DT**, Gurovich AN, Braith RW. The acute effect of smokeless tobacco on central hemodynamics. *GSC Interdisciplinary Research Conference*, University of Florida, Gainesville, FL. 2009.

35. Braith RW, Casey DP, **Beck DT**, Nichols WW, Choi CY, Khuddus MA, Conti CR. Peripheral endothelial function is a primary clinical target for enhanced external counterpulsation in patients with refractory angina. *Journal of the American College of Cardiology*. 53(10):S1;A300-A300, 2009.

36. **Beck DT**, Gurovich AN, Martin JS, Nichols WW, Braith RW. Validation of a novel wristband tonometer used for applanation tonometry. *GSC Interdisciplinary Research Conference*, University of Florida, Gainesville, FL. 2009.

37. Martin JS, **Beck DT**, Gurovich AN, Braith RW, FACSM. The acute effect of smokeless tobacco on central hemodynamics. *Med. Sci. Sports Exer.* 41(5): S1:70, 2009.

38. **Beck DT**, Gurovich AN, Martin JS, Nichols WW, Braith RW, FACSM. Validation of a novel wristband tonometer used for applanation tonometry. *Med. Sci. Sports Exer.* 41(5): S1:69-70, 2009.

39. Braith RW, FACSM, Conti RC, **Beck DT**, Nichols WW, Choi CY, Khuddus MA, Casey DP. Enhanced external counter pulsation improves arterial function in patients with chronic stable angina. *Med. Sci. Sports Exer.* 41(5): S1:53, 2009.

40. Gurovich AN, Casey DP, **Beck DT**, Braith RW, FACSM. Determination of central arterial pulse wave velocity from pulse wave analysis. *Med. Sci. Sports Exer.* 40(5): S1:91, 2008.

41. **DT Beck**, Casey DP, Braith RW. The relationship between body fat percentage and arterial wave reflection in young, healthy men and women. *Med. Sci. Sports Exer.* 40(5): S1:268, 2008.

42. Casey DP, Conti RC, Nichols WW, Khuddus MA, Choi CY, **Beck DT**, Braith RW. Enhanced external counterpulsation treatment decreases arterial stiffness and myocardial oxygen demand in patients with refractory angina. *GSC Interdisciplinary Research Conference*, University of Florida, Gainesville, FL. 2007.

43. Casey DP, **Beck DT**, Braith RW, FACSM. The relationship between brachial artery flow mediated dilation and plasma levels of nitrate/nitrite (NOx). *Med. Sci. Sports Exer.* 39(5): S1:427, 2007.
44. Braith RW, **Beck DT**, Casey DP. Effects of resistance exercise training on arterial function in young, healthy men and women. *Med. Sci. Sports Exer.* 38(11): S5, 2006.

Invited Presentations

1. *The Road Taken: BS to PhD.* Department of Kinesiology, College of Human Science and Services, University of Rhode Island, Kingston, RI, 2013.
2. *Enhanced External Counterpulsation, Exercise, Shear Stress and Vascular Aging.* Oak Hammock at the University of Florida, Department of Aging and Geriatric Research, University of Florida Institute on Aging, Gainesville, FL, 2013.
3. *Habitual Exercise and Vascular Aging: Never too late to start?* Gainesville Senior Recreation Center, Department of Aging and Geriatric Research, University of Florida Institute on Aging, Gainesville, FL, 2013.
4. *Extracardiac Effects of Enhanced External Counterpulsation in Symptomatic Patients with Cardiovascular Disease and Refractory Angina.* Department of Kinesiology, College of Human Science and Services, University of Rhode Island, Kingston, RI, 2013.
5. *Exercise and Heart Failure.* Department of Health Sciences, College of Health Profession, Central Michigan University, Mt. Pleasant, MI, 2012.
6. *Resistance and Endurance Exercise Training Improves Endothelial Function and Augmentation Index in Young Prehypertensives.* Department of Health Sciences, College of Health Profession, Central Michigan University, Mt. Pleasant, MI, 2012.
7. *Biostatistics and Research Design for the Clinician.* Geriatrics and Extended Care/ Geriatric Research Education and Clinical Centers (GRECC), North Florida/South Georgia Veterans Health System, Gainesville, FL, 2012.
8. *Testosterone and Heart Failure.* Geriatrics and Extended Care/ Geriatric Research Education and Clinical Centers (GRECC), North Florida/South Georgia Veterans Health System, Gainesville, FL, 2012.
9. *Vasoactive Pharmacotherapy.* Department of Applied Physiology and Kinesiology at the University of Florida, Gainesville, FL, 2012.
10. *Evaluations of Muscle Performance.* Department of Physical Therapy at the University of Florida, Gainesville, FL. Basic Clinical Skills II (PHT 6207C). Course for the degree of Doctor of Physical Therapy, 2012.
11. *Cardiac Pharmacotherapy.* Department of Applied Physiology and Kinesiology at the University of Florida, Gainesville, FL, 2012.
12. *Acute and Chronic Adaptations to Resistance Training.* Department of Physical Therapy at the University of Florida, Gainesville, FL. Basic Clinical Skills II (PHT 6207C). Course for the degree of Doctor of Physical Therapy, 2012.
13. *Flow Mediated Dilation (FMD) and Venous Occlusion Plethysmography (VOP): Protocol application.* Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL, 2010.

14. *Cardiopulmonary Exercise Testing: Interpreting results.* Department of Cardiology, Florida Hospital, Orlando, FL, 2007. Continuing Medical Education (CME) credit approved course.
15. *Indications for Utilizing Cardiopulmonary Exercise Testing.* Department of Cardiology, Florida Hospital, Orlando, FL, 2007. Continuing Medical Education (CME) credit approved course.
16. *Body Composition Rules and Regulations for High School Wrestlers.* Delaware Interscholastic Athletic Association (DIAA) rules and regulations coaches and referees conference. Smyrna, DE, 2001.

Presentations

1. *Enhanced external counterpulsation reduces indices of left ventricular wasted energy and myocardial oxygen demand in patients with left ventricular function and refractory angina.* **Beck DT**, Casey DP, Martin JS, Sardina PD, Braith RB. Experimental Biology National Conference, Boston, MA. 2015.
2. *Influence of aromatase inhibitors on the bone protective effects of testosterone.* **Beck DT**, Yarrow JF, Beggs LA, Otzel DM, Ye F, Conover CF, Miller JR, Balaez A, Combs SM, Borst SE. American College of Sports Medicine National Conference. Orlando, FL. 2014.
3. *Influence of aromatase inhibition on the bone protective effects of testosterone.* **Beck DT**, Yarrow JF, Beggs LA, Otzel DM, Ye F, Conover CF, Miller JR, Balaez A, Combs SM, Borst SE. New England American College of Sports Medicine Regional Conference, Providence, RI, 2013.
4. *The combined effects of anastrozole and testosterone or trenbolone on prostate and levator ani-bulbo cavernosus mass.* **Beck DT**, Yarrow JF, McCoy SC, Beggs LA, Balaez A, Combs SM, Miller JR, Conover CF, Borst SE. Experimental Biology National Conference, Boston, MA. 2013.
5. *Exercise training improves endothelial function in young prehypertensives.* **Beck DT**, Martin JS, Casey DP, Braith RW, FACSM. Southeast Region American College of Sports Medicine National Conference. Jacksonville, FL. 2012.
6. *Exercise training reduces peripheral pulse wave velocity in young prehypertensives.* **Beck DT**, Martin JS, Casey DP, Braith RW, FACSM. American College of Sports Medicine National Conference. San Francisco, CA. 2012.
7. *Resistance and endurance training improve endothelial function and vasoactive balance in young prehypertensives.* **Beck DT**, Martin JS, Emerson BD, Casey DP, Braith RW, FACSM. American College of Sports Medicine National Conference. Denver, CO. 2011.
8. *Exercise training improves endothelial function and vasoactive balance in young prehypertensives.* **Beck DT**, Martin JS, Emerson BD, Casey DP, Braith RW. GSC Interdisciplinary Research Conference, University of Florida, Gainesville, FL. 2011.
9. *Enhanced external counterpulsation improves redox balance and endothelial function in patients with refractory angina.* **Beck DT**, Casey DP, Nichols WW, Choi CY, Khuddus MA, Conti CR, Braith RW, FACSM. American College of Sports Medicine National Conference. Vascular Function Symposium. Baltimore, MD. 2010.
10. *Improvements in redox balance and endothelial function in patients with refractory angina after enhanced external counterpulsation therapy.* **Beck DT**, Casey DP, Nichols WW, Choi CY, Khuddus MA, Conti CR, Braith RW. GSC Interdisciplinary Research Conference. University of Florida, Gainesville, FL. 2010.

11. *Validation of a novel wristband tonometer used for applanation tonometry.* **Beck DT**, Gurovich AN, Martin JS, Nichols WW, Braith RW. COM Research Conference. University of Florida, Gainesville, FL. 2009.
12. *Validation of a novel wristband tonometer used for applanation tonometry.* **Beck DT**, Gurovich AN, Martin JS, Nichols WW, Braith RW. GSC Interdisciplinary Research Conference. University of Florida, Gainesville, FL. 2009.
13. *Validation of a novel wristband tonometer used for applanation tonometry.* **Beck DT**, Gurovich AN, Martin JS, Nichols WW, Braith RW, FACSM. American College of Sports Medicine National Conference. Seattle, WA. 2009.
14. *The relationship between body fat percentage and arterial wave reflection in young, healthy men and women.* **Beck DT**, Casey DP, Braith RW, FACSM. American College of Sports Medicine National Conference. Indianapolis, IN. 2008.

Grants and Awards (funded)

2014	<p>Champlin Foundations Grant <i>Cardiovascular Diagnostic Learning Collaborative</i> Role: Principal Investigator Co-PIs: Deborah Reibe, Ph.D., Samantha K. Brown, DPT, Celia P. MacDonnell, PharmD, and Anita N. Jackson, PharmD.</p>	\$214,275
2011-2013	<p>Associated Health Postdoctoral Fellowship. Office of Academic Affiliations Veterans Affairs Central Office, Washington, D.C. <i>The effects of aromatase inhibition and testosterone administration on prostate, bone, adipose and skeletal muscle in the orchietomized male rat</i> Co-PI/Mentor: Stephen E. Borst, Ph.D. PI: Darren T. Beck, Ph.D.</p>	\$86,759
2009-2011	<p>T32 Predoctoral Fellowship. (NIH training grant 5T32HL083810-03). Predoctoral training period 2009 – 2010 (Multidisciplinary Training Program in Hypertension). University of Florida Hypertension Center, Department of Physiology and Functional Genomics, University of Florida, Gainesville, FL. <i>Endothelial function and arterial stiffness in young prehypertensives</i> PI: Chris M. Baylis, Ph.D. Predoctoral Fellow: Darren T. Beck.</p>	\$61,270
2006-2009	<p>National Institutes of Health (NIH-HLBI-RO1-HL077571-01) <i>Effects of Enhanced External Counterpulsation (EECP) on Arterial Function</i> PI: Randy W. Braith, Ph.D. Predoctoral Fellow: Darren T. Beck.</p>	\$1,191,250
2005-2009	<p>University of Florida Alumni Fellowship for Doctoral Studies. Department of Applied Physiology and Kinesiology, College of Health and Human Performance, University of Florida, Gainesville, FL. Predoctoral Fellow: Darren T. Beck</p>	\$263,700

Grants and Awards (*unfunded*)

2014	Research Proposal Development Grant University of Rhode Island Division of Research and Economic Development <i>Effects of aromatase inhibition on testosterone induced gene expression in adipose tissue of F344 rats</i> PI: Darren T. Beck, Ph.D.	\$15,000
2014	Faculty Career Enhancement Grant University of Rhode Island Division of Research and Economic Development <i>Acute effects of a commercially available limb pneumatic compression device on systemic arterial function</i> PI: Darren T. Beck, Ph.D.	\$15,000
2014	Federal Research Priorities (State of Rhode Island) University of Rhode Island Division of Research and Economic Development <i>Cardiovascular effects of testosterone administration in hypogonadal men</i> PI: Darren T. Beck, Ph.D.	\$1,276,000
2013	BLR&D CDA-2 (Grant-11349490) Office of Research Development (ORD) <i>Testosterone replacement to improve cardiac function in rat heart failure model</i> PI: Darren T. Beck, Ph.D. Co-PIs: Scott A. Bercelli, M.D. Ph.D., Stephen E. Borst, Ph.D., Leonardo F. Ferreira, Ph.D., and Calvin Y. Choi, M.D.	\$977,600
2008	American Heart Association Predoctoral Fellowship. <i>Effects of resistance training on arterial function in prehypertensives</i> PI: Darren T. Beck. Co-PI: Randy W. Braith, Ph.D.	\$43,540

Grants and Awards (*in review*)

2015	American Diabetes Association <i>The antiglycemic effects of a lower pressure external pneumatic compression device on type II diabetics: a molecular and applied investigation</i> PI: Jeffrey S. Martin Role: Co-Investigator	\$494,589
2015	Funding Agency: Medtronic <i>Efficacy of sequential peristaltic pulse external pneumatic compression (PEPC) for improved free-living glycemic control in patients with type 2 diabetes mellitus.</i> PI: JS Martin Role: Co-Investigator	\$13,990

Clinical and Professional Experience

2004-2005	<u>Exercise Physiologist</u> : Oak Hammock at the University of Florida Continuing Care Retirement Community, Gainesville, FL.
2002	<u>Intern</u> : Department of Intercollegiate Athletics for Strength and Conditioning University of Delaware, Newark, DE.

2001	<u>Intern:</u> Cardiac Rehabilitation, Preventive Medicine and Rehabilitation Institute (PMRI) Christiana Care Health System, Wilmington, DE.
2000-2001	<u>Cardiac Stress Technician:</u> Cardiac Diagnostic Center Cardiology Consultants P.A., Wilmington, DE.
2000	<u>Intern:</u> Pulmonary Functions Laboratory and Pulmonary Rehabilitation Christiana Care Health System, Christiana Hospital, Newark, DE.
1999-2000	<u>Exercise Physiologist:</u> CardioKinetics Inc., Preventative medicine and cardiac rehabilitation, Newark, DE.

Editorial Board Membership

Associate Editor for the Journal of Sport and Human Performance

Reviewer Experience

Ad Hoc Reviewer for American Journal of Hypertension
 Ad Hoc Reviewer for Experimental Biology and Medicine
 Ad Hoc Reviewer for Hypertension
 Ad Hoc Reviewer for Journal of Human Hypertension
 Ad Hoc Reviewer for Journal of Sport and Human Performance
 Ad Hoc Reviewer for Journal of Strength and Conditioning Research
 Ad Hoc Reviewer for Lung
 Ad Hoc Reviewer for Medicine and Science in Sport and Exercise

Professional Society Membership

American College of Sports Medicine
 American Heart Association
 American Physiological Society
 New England Region American College of Sports Medicine
 Southeast Region American College of Sports Medicine

Graduate Student Mentoring

2014	<u>Masters Thesis Internal Member:</u> Lisa Vincent-Horta, B.S., Department of Kinesiology, University of Rhode Island, Kingston, RI.
2014	<u>Masters Degree Major Advisor:</u> Michael Babatunde, B.S., Department of Kinesiology, University of Rhode Island, Kingston, RI.
2014	<u>Masters Thesis Defense Committee Chair:</u> Sean Krueger, B.S., Department of Nutrition and Food Sciences, University of Rhode Island, Kingston, RI.

Undergraduate Student Mentoring

2015	<u>Undergraduate Research Study:</u> Jack A. Goldman, Department of Biological Sciences, University of Rhode Island, Kingston, RI.
2015	<u>Undergraduate Research Study:</u> Adam J. Rokicki, Department of Kinesiology, University of Rhode Island, Kingston, RI.

2014 Undergraduate Research Study: John B. Christy, Department of Kinesiology, University of Rhode Island, Kingston, RI.

Academic Committee Service

2014-2015 Member: Department of Kinesiology Graduate Program Committee, University of Rhode Island, Kingston, RI.

2014-2015 Founding Director: Exercise Science Student Organization, University of Rhode Island, Kingston, RI.

2014 Department of Kinesiology Representative: Ad Hoc Gateways to Completion (G2C) Task Force for Chemistry (CHM 103), University of Rhode Island, Kingston, RI.

2003-2004 Graduate Student Representative: University of Delaware Faculty Senate, Committee for Student and Faculty Honors, University of Delaware, Newark, DE.

2001-2003 Member: Exercise Science Department Steering Committee, Delaware Technical and Community College, Wilmington, DE.

Community Service

2010 Volunteer (Carpentry and Design): ABC's Extreme Makeover-Home Edition, Wagstaff Family home build. Partnered with a local fabrication and design company (Magnum Wood) to design and build Ty Pennington's "Secret Room" for a local family in need, Gainesville, FL.

2005-2008 Volunteer: American Heart Association, "Hoops for Hearts" basketball tournament fundraiser, Alachua County, Gainesville, FL.

2001-2003 Volunteer: Special Olympics of Delaware, Newark, DE.

1998-2001 Student Activities Leader: Bel Air High School, Bel Air, MD.

1999-2000 Volunteer: Brennen School, Delaware Autism Program, Newark, DE.

1997-1999 Strength and Conditioning Coach: Varsity Athletics, William Penn High School, New Castle, DE.