

Donovan Jones Lott, PT, PhD, CSCS

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(352) 273-9226

EDUCATION:

June 2007 – Sept 2008 Post Doctoral Fellowship (Muscle Physiology Laboratory)
University of Florida, Gainesville, FL

Aug. 2002 – May 2007 Ph.D. in Movement Science (Emphasis in Biomechanics)
Washington University in St. Louis, St. Louis, MO

Aug. 1996 – Dec. 1998 M.S. in Physical Therapy
Washington University School of Medicine, St. Louis, MO

Aug. 1990 – April 1991 B.S. in Exercise Science (Magna Cum Laude)
Jan. 1994 – Aug. 1996 Brigham Young University, Provo, UT

EMPLOYMENT:

July 2017 – Present Department of Physical Therapy, University of Florida
Gainesville, FL
Research Associate Professor

Sept 2008 – June 2017 Department of Physical Therapy, University of Florida
Gainesville, FL
Research Assistant Professor

June 2007 – Sept 2008 Department of Physical Therapy, University of Florida
Gainesville, FL
Post Doctoral Fellow

June 2007 – Sept 2008 Fit For Life Physical Therapy
Gainesville, FL
Per diem Physical Therapist

Aug. 2002 – May 2007 BJC Homecare Services
St. Louis, MO
Per diem Physical Therapist

Jan. 2000 - Aug. 2002 Jack D. Close & Assoc. Physical Therapy and Rehabilitation Center
Las Vegas, NV
Director of Outpatient Physical Therapy Clinic

Feb. 1999 – Aug. 2002 IHS Rehabilitation; Colonial Home-Care Services
Las Vegas, NV
Per diem Physical Therapist

Feb. 1999 – Dec. 1999 Jack D. Close & Assoc. Physical Therapy and Rehabilitation Center
Las Vegas, NV
Staff Physical Therapist

PROFESSIONAL ORGANIZATIONS:

American Physical Therapy Association (APTA): 1997 – Present
APTA Orthopaedic Section: 1999 – Present
APTA Research Section: 2003 – Present
American College of Sports Medicine (ACSM): 2009 - Present
National Strength & Conditioning Association: 1998 – Present
American Society of Biomechanics: 2005 - 2007

GRANTS & FUNDING:

CURRENT:

Title: Development of Magnetic Resonance Imaging as an Endpoint in Myotonic Dystrophy Type (Myotonic Dystrophy/Wyck Foundation grant)

Principal Investigator: Donovan Lott

Role: Principal Investigator

Amount awarded: \$150,000 (2016-2018)

Title: A Phase ½ study of CAT-1004 in Pediatric Patients with Duchenne Muscular Dystrophy (CAT-1004-201 Catabasis Pharmaceuticals)

Principal Investigator: Krista Vandeborne

Role: Clinical Evaluator

Amount awarded: \$140,000 (2015-2018)

Title: Development of a Strength Training Protocol in Duchenne Muscular Dystrophy (R21 AR064949-01A1)

Principal Investigator: Donovan Lott

Role: Principal Investigator

Amount awarded: \$275,000 (2014-2018 NCE)

Title: Magnetic Resonance Imaging and Biomarkers in Muscular Dystrophy (R01 AR056973)

Principal Investigator: Krista Vandeborne

Role: Co-Investigator

Amount awarded: \$7,345,781 (2010-2020)

Title: Failed Regeneration in the Muscular Dystrophies: Inflammation, Fibrosis, and Fat (U54AR052646)

Principal Investigator: Glenn Walter

Role: Co-Investigator

Amount awarded: \$1,169,388 (2010-2020)

PREVIOUS:

Title: MDA Myotonic Dystrophy Research Network (Muscular Dystrophy Association grant)

Principal Investigator: Charles Thornton (Univ of Rochester); UF Co-Inv: Subramony/Ashizawa

Role: Sub-Investigator & Clinical Evaluator

Award: 2013-2016

Title: A Phase 1/2a Blinded, Placebo-Controlled Study to Assess the Safety, Tolerability, and Dose-range Finding of Multiple Ascending Doses of ISIS 598769 Administered Subcutaneously to Adult Patients with Myotonic Dystrophy Type 1

Principal Investigator: Charles Thornton (Univ of Rochester); UF Co-Inv: Subramony/Ashizawa

Role: Sub-Investigator & Clinical Evaluator

Amount awarded: \$98,308 (2014-2016)

Title: Muscle Injury prevention & Rehabilitation in Military Personnel (USAMRMC W81XH-11-1-0454)

Principal Investigator: Donovan Lott
Role: Principal Investigator
Amount awarded: \$124,988 (2012-2016)

Title: MR Monitoring of PTC 124 Treatment in DMD (RC1 AR058189)
Principal Investigator: Krista Vandenborne
Role: Co-Investigator
Amount Awarded: \$839,690 (2009-2012)

Title: Rehabilitation Research Career Development Program (K12-HD055929)
Principal Investigator: Kenneth Ottenbacher (University of Texas Medical Branch)
Amount awarded: \$4,975,148 (2007-2012)
Role: K12 Phase 1 Scholar from 2008-2011

Title: Musculoskeletal Pain and Muscle Dysfunction in Soldiers with Traumatic Injuries (VA248P0199)
Principal Investigator: Krista Vandenborne (University of Florida), Paul Hoffmann (VA)
Amount awarded: \$50,000 (2007-2008)
Role: Post-doctoral Fellow

SUBMITTED BUT NOT FUNDED:

Title: An assessment of equine gait and its influence on the suitability and success of equines in therapeutic riding
Principal Investigator: Carissa Wickens
Submitted to H&H Research Foundation (2017)
Role: Consultant

Title: "Functional motor impairments in Myotonic Dystrophy type 1: Central deficiency and dysmetria"
Principal Investigator: Evangelos Christou
Submitted to the Opportunity Fund Grant of the University of Florida (2016)
Role: Co-Investigator

Title: Feasibility of a home based exercise program for individuals with myotonic dystrophy type 1
Principal Investigator: Katy Eichinger
Submitted to The Rehabilitation Research Resource to Enhance Clinical Trials Center (2016)
Role: Co-Investigator

Title: Muscle Injury Prevention, Recovery, and Rehabilitation in Military Personnel and Veterans
Principal Investigator: Donovan Lott
Submitted to the Joint Warfighter Medical Research Program, Dept. of the Army (2016)
Role: PI

Title: Muscle Pathology and Gait in Children with Duchenne muscular dystrophy
Principal Investigator: Donovan Lott
Submitted to the Muscular Dystrophy Association (July 2009)
Role: PI

Title: Lower limb muscle function as a predictor of disability in boys with Duchenne muscular dystrophy
Principal Investigator: Claudia Senesac
Submitted to the Pediatric Section of the APTA (Sept 2007)
Role: Co-PI

SERVICE:

Grant Reviewer for University of Florida Clinical and Translational Science Institute: 2016 – Present

Nicaragua Learning Project Committee Member, Department of Physical Therapy, University of Florida: 2014 - Present

Professionalism Committee Member, Department of Physical Therapy, University of Florida: 2013 – Present

Recruitment Committee Member, PhD in Rehabilitation Science Program, University of Florida: 2018 – Present

Faculty Search Committee member, Department of Physical Therapy, University of Florida: Fall 2012, Spring 2018

Admissions Committee Member, Department of Physical Therapy, University of Florida: 2013, 2017

Faculty Search Committee Chair, Department of Physical Therapy, University of Florida: Fall 2016, Fall 2017

DPT Competency Exam Committee Member, Department of Physical Therapy, University of Florida: 2013 – 2016

Research Space Task Force member, Department of Physical Therapy, University of Florida: 2012 – 2014

Commencement Marshall, College of Public Health & Health Professions, University of Florida: 2012 - 2014

Curriculum Skills Assessment Committee member, Department of Physical Therapy, University of Florida: 2011 - 2012

Department of Physical Therapy Faculty Representative for the University of Florida Undergraduate PT Club: 2010 – Present

Professional Team Member for entry-level DPT students, Department of Physical Therapy, University of Florida: Aug 2009 – Dec 2010

Committee Member for “Darius at UF” (event to promote awareness of Duchenne muscular dystrophy): June – Sept, 2009

Reviewer/Judge of abstracts submitted to the College of Public Health & Health Professions Research Day, University of Florida, 2009, 2010, 2011, 2012

Reviewer for *Journal of Biomechanics*: 2009 - Present

Reviewer for *Clinical Biomechanics*: 2008 - Present

Reviewer for *Journal of Rehabilitation Research and Development*: 2007- Present

Reviewer for *Journal of Applied Physiology*: 2006 – Present

Reviewer for *Physical Therapy*: 2006 – Present

Reviewer for *Journal of Diabetes and its Complications*: 2007- 2010

Reviewer for *Development Medicine & Child Neurology*: 2014 - Present

Reviewer for *Journal of the Neurological Sciences*: 2014 - Present

Reviewer for *Journal of Rheumatology and Orthopedics*: 2015 – Present

Reviewer for *Muscle and Nerve*: 2016 – Present

Reviewer for *Developmental Neurorehabilitation*: 2016 – Present

Reviewer for *Contemporary Clinical Trials*: 2017 – Present

Reviewer for *Disability & Rehabilitation*: 2017 – Present

Reviewer for *Experimental Gerontology*: 2017 – Present

Reviewer for *Geriatrics & Gerontology International*: 2018 – Present

TEACHING/MENTORING EXPERIENCE:

Spring 2018 Co-teacher: Basic Skills II
(Class for entry-level Doctor of Physical Therapy [DPT] students)
University of Florida, Department of Physical Therapy

2017-Present Faculty Facilitator: Putting Families First
(Class for health care professional students)
University of Florida, Health Science Center

2012-Present Instructor and Course Coordinator: Prosthetics & Orthotics
(Class for entry-level Doctor of Physical Therapy [DPT] students)
University of Florida, Department of Physical Therapy

Jan - April 2018 Advisor: Evidence Based Practice III
(Class for entry-level DPT students)
University of Florida, Department of Physical Therapy
Advised three 3rd year DPT students regarding their written case reports
(Topics: Chronic Knee Pain and Blood Flow Restriction Training, Fall Prevention in Early Mobilization of Patients with Lower Extremity Amputations in the Acute Care Setting, Agility Rehabilitation Program for a Patient with Transtibial Amputation)

2010-2011, Instructor and Course Coordinator: Evidence Based Practice II
2013-2017 (Class for entry-level Doctor of Physical Therapy [DPT] students)
University of Florida, Department of Physical Therapy

Summer 2014 – Dissertation Committee Member (Abhinandan Batra)
July 2017 Dissertation: “Non-Invasive Monitoring of Disease Progression in DMD & Collagen VI Related Dystrophy”
Rehabilitation Science PhD Program
University of Florida

Jan - April 2017 Advisor: Evidence Based Practice III
(Class for entry-level DPT students)
University of Florida, Department of Physical Therapy
Advised two 3rd year DPT students regarding their written case reports
(Topics: Task Specific Functional Training Rehabilitation of an Elderly Male Patient Post Trans-Tibial Amputation, Computerized Assisted Rehabilitation Environment for a patient with transtibial amputation)

Jan - April 2016 Advisor: Evidence Based Practice III
(Class for entry-level DPT students)
University of Florida, Department of Physical Therapy
Advised three 3rd year DPT students regarding their written case reports
(Topics: Functional E-stimulation and gait, Vestibulo-ocular dysfunction and concussions, Prognostic factors and concussion)

2013 – 2015 Dissertation Committee Member (Yoonjeong Lim)
Dissertation: “Impact of Child, Family, and Healthcare Service Satisfaction on Families of Children with Rare Diseases”
Rehabilitation Science PhD Program
University of Florida

Jan - April 2015 Supervisor for Full-time Internship
Applied Physiology & Kinesiology
University of Florida, Health and Human Performance

- Fall 2014: Co-Instructor & Co-Course Coordinator: Seminar in Rehabilitation Science
(Class for PhD students in Rehabilitation Science)
University of Florida, Program in Rehabilitation Science
- Fall 2014: Co-Instructor: Muscle Plasticity
(Class for PhD students in Rehabilitation Science)
University of Florida, Program in Rehabilitation Science
- March 2009-2010 Lecturer: Exercise Physiology
March 2012-Present (Class for entry-level DPT students)
University of Florida, Department of Physical Therapy
Topic for two lectures: Diabetes and Exercise
- May '14 – May 2015 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Public Health & Health Professions
Providing mentorship and direction in the research project and manuscript preparation entitled: MR Spectroscopy and Functional Measures in Boys with DMD 12-18 months Prior to Loss of Ambulation.
- Jan - April 2015 Advisor: Evidence Based Practice III
(Class for entry-level DPT students)
University of Florida, Department of Physical Therapy
Advised two 3rd year DPT students regarding their written case reports
(Topics: Mirror therapy on limb pain and functional mobility; Upper extremity plyometric program for labrum repair)
- Jan - April 2014 Advisor: Evidence Based Practice III
(Class for entry-level DPT students)
University of Florida, Department of Physical Therapy
Advised 3rd year DPT student regarding her written case report (Topic: High intensity prosthetic training for a transfemoral amputee using a C-leg compact)
- May '13 – May 2014 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Public Health & Health Professions
Providing mentorship and direction in the research project and manuscript preparation for two students entitled: 1) The Effect of Coenzyme Q 10 on Boys with Duchene Muscular Dystrophy, and 2) Longitudinal Assessment of Strength, Activity, & Muscle T2 in Collagen VI Myopathy.
- Jan - April 2013 Supervisor for Full-time Internship
Applied Physiology & Kinesiology
University of Florida, Health and Human Performance
- Aug '12 – May 2013 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Health and Human Performance
Providing mentorship and direction in the research project and manuscript

preparation entitled: Impact of Physical Activity on Muscles of People with Collagen-VI Myopathies.

- May '12 – May 2013 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Public Health & Health Professions
Providing mentorship and direction in the research project and manuscript preparation entitled: Relationships Between Contractile Tissue, Physical Activity, and Functional Ability in Ambulatory Boys with Duchenne Muscular Dystrophy.
- Jan - April 2012 Supervisor for Full-time Internship
Applied Physiology & Kinesiology
University of Florida, Health and Human Performance
- May '11 – May 2012 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Public Health & Health Professions
Providing mentorship and direction in the research project and manuscript preparation entitled, "T2 Relaxation Time and Activity in Boys with Duchenne Muscular Dystrophy."
- Aug – Dec 2011 Supervisor: Independent Study
(Course for Undergraduate student, HSC 4905)
University of Florida, Bachelor of Health Science Program
Provided direction to the creation and organization of materials to be used by the siblings of research participants.
- Summer 2011 Supervisor: Independent Study
(Course for PhD student, RSD 6905)
University of Florida, Rehabilitation Science Doctoral Program
Provided direction and instruction regarding classroom teaching and preparation of materials for lectures and learning.
- Summer 2011 Instructor: Supervised Teaching
(Course for PhD student, RSD 6940)
University of Florida, Rehabilitation Science Doctoral Program
Provided direction and instruction in principles and execution of teaching entry-level doctoral of physical therapy students.
- May '10 – May 2011 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Public Health & Health Professions
Providing mentorship and direction in the research project and manuscript preparation entitled, "Non-invasive Analysis of Muscle Quality in Patient with Duchenne Muscular Dystrophy"
- Jan '10 – May 2010 Mentor: Honors Student Independent Study Project
University of Florida, Honors Program
Providing mentorship and direction in the research project and abstract preparation entitled, "Assessment of Peroneal Muscle Size in Boys with Duchenne Muscular Dystrophy"

- May '09 – May 2010 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Public Health & Health Professions
Providing mentorship and direction in the research project and manuscript preparation entitled, “The Relationships between Muscle Composition, Strength, and Gait Function in Boys with Duchenne Muscular Dystrophy”
- May – June 2009 Co-teacher: Evidence Based Practice II
(Class for entry-level Doctor of Physical Therapy [DPT] students)
University of Florida, Department of Physical Therapy
- May '08 – May 2009 Mentor: Honors Thesis Research Project
(Thesis for Undergraduate Honors Program)
University of Florida, Public Health & Health Professions
Providing mentorship and direction in the research project and manuscript preparation entitled, “Gait and Strength Changes in Boys with Duchenne Muscular Dystrophy”
- Jan - April 2009 Advisor: Evidence Based Practice III
(Class for entry-level DPT students)
University of Florida, Department of Physical Therapy
Advised two 3rd year DPT students regarding their written case reports (Topics: Rehabilitation protocol after total knee arthroplasty; Aquatic therapy for a patient after tibial plateau fracture)
- Aug. – Dec 2008 Supervisor: Independent Study
(Course for PhD student)
University of Florida, Rehabilitation Science Doctoral Program
Provided direction and instruction in research laboratory experience emphasizing principles of MRI and methods for data analyses.
- Jan. – April 2007 Advisor: Case Integration 3
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Advised a 3rd year DPT student regarding her written case report and structured literature review (Topic: Rehabilitation for proprioception and balance after an ankle sprain)
- February 2007 Lab Assistant: Kinesiology 2
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Topics for two labs: Quantitative and observational gait analysis
- January 2007 Lecturer: Human Anatomy
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Musculoskeletal system
- Sept. – Oct. 2006 Lecturer: Clinical Implications of Tissue Mechanics
Sept. – Oct. 2004 (Class for post-professional DPT students)
Washington University School of Medicine, Program in Physical Therapy

- Topics for three lectures: Material properties of biological tissues; Clinical applications using the Physical Stress Theory
- Feb. - March 2006 Lab Assistant: Kinesiology 2
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Topics for four labs: Quantitative and observational gait analysis; Clinical evaluation of the foot and ankle
- February 2006 Lecturer: Kinesiology 2
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Topic for lecture: Kinematics, kinetics, and moments of observational gait
- Jan. – Feb. 2006 Lecturer: Human Anatomy
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Topic for three lectures: Musculoskeletal system, abdominal musculature, and muscles and fascia of the back
- May 17, 2005 Lecturer: Research Seminar
(Lecture offering continuing education units for faculty and clinicians)
Washington University School of Medicine, Program in Physical Therapy
Topic: Relationship between soft tissue deformation and applied pressure along the 2nd ray of the plantar neuropathic foot
- April 2005 Lab Assistant: Essential Skills 3
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Topics for three labs: Taping, temporary functional orthotics, and neutral casting for the foot and ankle
- Jan. – April 2005 Advisor: Case Integration 3
(Classes for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Advised a 3rd year DPT student regarding his written case report and structured literature review (Topic: Physical therapy intervention for patients with patellofemoral pain)
- Sept. – Oct. 2004 Lecturer: Kinesiology 1
(Class for entry-level DPT students)
Washington University School of Medicine, Program in Physical Therapy
Topic for four lectures: Muscle performance (influencing factors, methods of measurement, and exercise regimens for enhancement)
- 1999 – 2000 Clinical Instructor at Jack D. Close & Assoc. in Las Vegas, NV
Instructed Physical Therapy students from University of Nevada Las Vegas, Idaho State University, & Northwestern University
- 1991 – 1993 Missionary for LDS Church in Santiago, Chile
Instructed Chilean people in their homes regarding religious principles
Became fluent in written and spoken Spanish language

HONORS & AWARDS:

Mentor for University Scholar Program Award Recipient (Venessa Bibeau), 2014-2015
Superior Accomplishment Award, College of Public Health & Health Prof., Univ. of Florida, 2012
Mentor for University Scholar Program Award Recipient (Meagan Kaufman), 2011-2012
Recipient, NIH Clinical Loan Repayment Program, 2010-2012
Rehabilitation Research Career Development Program K12 Scholar, 2008 – 2011
Selected as a participant for the Enhancing Rehabilitation Research in the South (ERRIS) Grant
Writing Workshop, Charlottesville, VA, Jan 2010
Chattanooga Research Award, Co-Recipient, APTA 2007
Promotion of Doctoral Studies Award II (\$15,000 awarded per academic year), Foundation for
Physical Therapy, APTA 2005-2006 and 2006-2007
Promotion of Doctoral Studies Award I (\$7,500 awarded), Foundation for Physical Therapy,
APTA 2004-2005
Peggy Lincoln Memorial Award, Jack D. Close & Assoc. 2001
Autographed with Excellence Award, Jack D. Close & Assoc. 1999 and 2001
Certified Strength & Conditioning Specialist (CSCS): Certified in 1998
Director's Award for Overall Achievement, Program in Physical Therapy, Wash. Univ. 1998
Robert J. Hickok Merit Scholarship, Program in Physical Therapy, Washington Univ. 1997
Valedictorian of the College of Physical Education, Brigham Young University 1996
Magna Cum Laude, Brigham Young University 1996
Phi Kappa Phi Honor Society: Inducted 1996
Board of Trustees Scholarship, Brigham Young University 1990-91, 1993-96
Eagle Scout, Boy Scouts of America, 1990

PUBLICATIONS:

PEER REVIEWED JOURNAL ARTICLES:

Arora H, Willcocks RJ, **Lott DJ**, Harrington AT, Senesac CR, Zilke KL, Daniaels MJ, Xu D, Tennekoon
GI, Finanger EL, Russman BS, Finkel RS, Triplett WT, Byrne BJ, Walter GA, Sweeney HL,
Vandenborne K. Longitudinal timed functional tests in Duchenne muscular dystrophy:
Imagingdmd cohort natural history. *Muscle & Nerve*, 2018; In Press. PMID: 29742798.

Batra A, Harrington A, **Lott DJ**, Willcocks R, Senesac C, McGehee W, Xu D, Mathur S, Daniels MJ,
Rooney WD, Forbes SC, Triplett W, Deol JK, Arpan I, Bendixen R, Finkel R, Finanger E,
Tennekoon G, Byrne B, Russman B, Sweeney LH, Walter G, Vandenborne K. *Am J Phys Med
Rehabil.* 2018; In Press. PMID: 29734234.

Willcocks RJ, Triplett WT, **Lott DJ**, Forbes SC, Batra A, Sweeney HL, Mendell JR, Vandenborne K,
Walter GA. Leg Muscle MRI in identical twin boys with Duchenne muscular dystrophy. *Muscle
Nerve.* 2018; In Press. PMID: 29365354.

Barnard AM, Willcocks RJ, Finanger EL, Daniels MJ, Triplett WT, Rooney WD, **Lott DJ**, Forbes SC,
Wang DJ, Senesac CR, Harrington AT, Finkel RS, Russman BS, Byrne BJ, Tennekoon GI, Walter
GA, Sweeney HL, Vandenborne K. Skeletal muscle magnetic resonance biomarkers correlate with
function and sentinel events in Duchenne muscular dystrophy. *PloS one.* 2018;13(3):e0194283.
PMID: 29554116.

Chen YW, Gregory C, Ye F, Harafuji N, **Lott D**, Lai SH, Mathur S, Scarborough M, Gibbs P, Bagiland
C, Vandenborne K. Molecular signatures of differential responses to exercise trainings during
rehabilitation. *Biomed Genet Genom.* 2017;2(1). Doi: 10.15761/BGG.1000127. PMID: 28845464.

Nichols C, Jain MS, Meilleur KG, Wu T, Collins J, Waite MR, Dastgir J, Salman A, Donkervoort S,
Duong T, Keller K, Leach ME, **Lott DJ**, Mcguire MN, Nelson L, Rutkowski A, Vuillerot C,
Bönnemann CG, Lehky TJ. Electrical impedance myography in individuals with collagen 6 and
laminin $\alpha 2$ congenital muscular dystrophy: a cross sectional and 2 year analysis. *Muscle Nerve.*
2017 Feb 22. doi: 10.1002/mus.25629. [Epub ahead of print] PMID: 28224647.

Willcocks RJ, Triplett WT, Forbes SC, Arora H, Senesac CR, **Lott DJ**, Nicholson TR, Rooney WD,

- Walter GA, Vandeborne K. Magnetic resonance imaging of the proximal upper extremity musculature in boys with Duchenne muscular dystrophy. *J Neurol*. 2017 264(1), 64-71. PMID: 27778157.
- Willcocks RJ, Rooney WD, Triplett WT, Forbes SC, **Lott DJ**, Senesac CR, Daniels MJ, Wang DJ, Harrington AT, Tennekoon GI, Russman BS, Finanger EL, Byrne BJ, Finkel RS, Walter GA, Sweeney HL, Vandeborne K. Multicenter Prospective Longitudinal Study of Magnetic Resonance Biomarkers in a Large Duchenne Muscular Dystrophy Cohort. *Annals of Neurology*. 2016 Apr;79(4):535-47. doi: 10.1002/ana.24599. Epub 2016 Feb 19. PubMed PMID: 26891991.
- Vohra RS, **Lott D**, Mathur S, Senesac C, Deol J, Germain S, Bendixen R, Forbes SC, Sweeney HL, Walter GA, Vandeborne K. Magnetic Resonance Assessment of Hypertrophic and Pseudo-Hypertrophic Changes in Lower Leg Muscles of Boys with Duchenne Muscular Dystrophy and Their Relationship to Functional Measurements. *PLoS One*. 2015 Jun 23;10(6):e0128915. doi: 10.1371/journal.pone.0128915. eCollection 2015.
- Senesac CR, **Lott DJ**, Forbes SC, Mathur S, Arpan I, Senesac ES, Walter GA, Vandeborne K. Longitudinal Evaluation of Muscle Composition Using Magnetic Resonance in 4 Boys With Duchenne Muscular Dystrophy: Case Series. *Phys Ther*. 2015 Jan 15. PMID: 25592189
- Forbes SC, Willcocks RJ, Triplett WT, Rooney WD, **Lott DJ**, Wang DJ, Pollaro J, Senesac CR, Daniels MJ, Finkel RS, Russman BS, Byrne BJ, Finanger EL, Tennekoon GI, Walter GA, Sweeney HL, Vandeborne K. Magnetic resonance imaging and spectroscopy assessment of lower extremity skeletal muscles in boys with Duchenne muscular dystrophy: a multicenter cross sectional study. *PLoS One*. 2014 Sep 9;9(9):e106435. doi: 10.1371/journal.pone.0106435. eCollection 2014. PMID: 25203313
- Lott DJ**, Forbes SC, Mathur S, Germain SA, Senesac CR, Sweeney HL, Walter GA, Vandeborne KA. Assessment of Intramuscular Lipid and Metabolites of the Lower Leg using Magnetic Resonance Spectroscopy in Boys with Duchenne Muscular Dystrophy. *Neuromuscular Disorders*. 2014 Jul;24(7):574-82. doi: 10.1016/j.nmd.2014.03.013. Epub 2014 Apr 13. PubMed PMID: 24798221.
- Arpan I, Willcocks RJ, Forbes SC, Finkel RS, **Lott DJ**, Rooney WD, Triplett WT, Senesac CR, Daniels MJ, Byrne BJ, Finanger EL, Russman BS, Wang DJ, Tennekoon GI, Walter GA, Sweeney HL, Vandeborne K. Examination of effects of corticosteroids on skeletal muscles of boys with DMD using MRI and MRS. *Neurology*. 2014 Sep 9;83(11):974-80. doi: 10.1212/WNL.0000000000000775. Epub 2014 Aug 6. PMID: 25098537
- Bendixen RM, **Lott DJ**, Senesac C, Mathur S, Vandeborne K. Participation in daily life activities and its relationship to strength and functional measures in boys with Duchenne muscular dystrophy. *Disabil Rehabil*. 2014;36(22):1918-23. doi: 10.3109/09638288.2014.883444. Epub 2014 Feb 6. PMID: 24499260
- Willcocks RJ, Arpan IA, Forbes SC, **Lott DJ**, Senesac CR, Senesac E, Deol J, Triplett WT, Baligand C, Daniels MJ, Sweeney HL, Walter GA, Vandeborne K. Longitudinal measurements of MRI-T2 in boys with Duchenne muscular dystrophy: effects of age and disease progression. *Neuromuscul Disord*. 2014 May;24(5):393-401. doi: 10.1016/j.nmd.2013.12.012. Epub 2014 Jan 11. PMID: 24491484
- Manini TM, Buford TW, **Lott DJ**, Vandeborne K, Daniels MJ, Knaggs JD, Patel H, Pahor M, Perri MG, Anton SD. Effect of dietary restriction and exercise on lower extremity tissue compartments in obese, older women: a pilot study. *J Gerontol A Biol Sci Med Sci*. 2014 Jan;69(1):101-8. doi: 10.1093/gerona/gls337. Epub 2013 May 16. PMID: 23682155
- Forbes SC, Walter GA, Rooney WD, Wang DJ, DeVos S, Pollaro J, Triplett W, **Lott DJ**, Willcocks RJ, Senesac C, Daniels MJ, Byrne BJ, Russman B, Finkel RS, Meyer JS, Sweeney HL, Vandeborne K. Skeletal muscles of ambulant children with Duchenne muscular dystrophy: validation of multicenter study of evaluation with MR imaging and MR spectroscopy. *Radiology*. 2013 Oct;269(1):198-207. doi: 10.1148/radiol.13121948. Epub 2013 May 21. PMID: 23696684
- Triplett WT, Baligand C, Forbes SC, Willcocks RJ, **Lott DJ**, Devos S, Pollaro J, Rooney WD, Sweeney HL, Bönnemann CG, Wang DJ, Vandeborne K, Walter GA. Chemical shift-based MRI to

- measure fat fractions in dystrophic skeletal muscle. *Magn Reson Med*. 2013 Sep 4. doi: 10.1002/mrm.24917. [Epub ahead of print] PubMed PMID: 24006208.
- Arpan I, Forbes SC, **Lott DJ**, Senesac CR, Daniels MJ, Triplett WT, Deol JK, Sweeney HL, Walter GA, Vandeborne K. T2 mapping provides multiple approaches for the characterization of muscle involvement in neuromuscular diseases: a cross-sectional study of lower leg muscles in 5-15-year-old boys with Duchenne muscular dystrophy. *NMR Biomed*. 2013 Mar;26(3):320-8. doi: 10.1002/nbm.2851. Epub 2012 Oct 9. PubMed PMID: 23044995; PubMed Central PMCID: PMC3573223.
- Forbes SC, **Lott DJ**, Finkel RS, Senesac C, Byrne BJ, Sweeney HL, Walter GA, Vandeborne K. MRI/MRS evaluation of a female carrier of Duchenne muscular dystrophy: a case study. 2012, *Neuromuscular Disorders*. 22 Suppl 2:S111-21
- Bendixen RM, Senesac C, **Lott DJ**, Vandeborne K. Participation and Quality of Life in children with Duchenne muscular dystrophy using the International Classification of Functioning, Disability, and Health. 2012, *Health and Quality of Life Outcomes*. 10:43.
- Marzetti E, Lees HA, Manini TM, Buford TW, Aranda JM, Calvani R, Capuani G, Marsiske M, **Lott DJ**, Vandeborne K, Bernabei R, Pahor M, Leeuwenburgh C, Wohlgemuth SE. Skeletal muscle apoptotic signaling predicts thigh muscle volume and gait speed in community-dwelling older persons: an exploratory study. 2012, *PLoS ONE*. 7(2):e32829.
- Buford TW, **Lott DJ**, Marzetti E, Wohlgemuth SE, Vandeborne K, Pahor M, Leeuwenburgh C, Manini TM. Age-related differences in lower extremity tissue compartments and associations with physical function in older adults. 2012, *Exp Gerontol*. 47(1):38-44.
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- Barnard AM, **Lott DJ**, Batra A, Forbes SC, Triplett WT, Riehl S, Smith BK, Vandeborne K, Walter GA. Respiratory muscle composition and breathing dynamics assessed by MRI in Duchenne muscular dystrophy. Imaging in Neuromuscular Disease. Berlin, Germany, November, 2017.
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