

UNIVERSITY OF FLORIDA
Department of Physical Therapy
COLLEGE OF PUBLIC HEALTH AND HEALTH PROFESSIONS
Curriculum Vitae

July 2023

Krista Vandenborne, PT, PhD

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Education:

1988-1993 Ph.D Physical Therapy
Free University of Brussels, Brussels, Belgium

1984-1988 Licentiate Physical Therapy and Motoric Revalidation
Free University of Brussels, Brussels, Belgium

Postgraduate Training and Fellowship Appointments:

1993-1994 NIH-T32 Post-Doctoral Fellow, Neurorehabilitation
Department of Rehabilitation Medicine
University of Pennsylvania, Philadelphia

1992-1993 Research Fellow, Belgian National Funds for Scientific Research
Department of Human Physiology
Free University of Brussels, Brussels, Belgium
Department of Radiology
University of Pennsylvania, Pennsylvania

1990-1992 Research Fellow, Belgian National Funds for Scientific Research
Department of Human Physiology
Free University of Brussels, Brussels, Belgium
Department of Biochemistry and Biophysics
University of Pennsylvania, Philadelphia

- 1989-1990 Fulbright Scholar, Belgian American Educational Foundation
Department of Biochemistry and Biophysics
University of Pennsylvania, Philadelphia
- 1988-1989 Research Fellow, Sports Medicine
Department of Human Physiology
Free University of Brussels, Brussels, Belgium

Faculty Appointments:

- 2018 - Chair & Distinguished Professor
Department of Physical Therapy
University of Florida, Gainesville
- 2015 – Director, Imaging DMD, UF
Clinical Trials in Muscular Dystrophies
University of Florida, Gainesville
- 2012- Director, Neuromuscular Research and Programs
College of Public Health and Health Professions
University of Florida, Gainesville
- 2009-2012 Associate Dean for Research and Planning
College of Public Health and Health Professions
University of Florida, Gainesville
- 2007-2018 Chair & Professor
Department of Physical Therapy
University of Florida, Gainesville
- 2007-2010 Research Foundation Professor
University of Florida, Gainesville
- 2003-2005 Associate Director for Human Imaging
Advanced Magnetic Resonance Imaging and Spectroscopy Center
University of Florida, Gainesville

2002-2007	Chair & Associate Professor Department of Physical Therapy University of Florida, Gainesville
2001-2002	Associate Professor (Tenured) Department of Physical Therapy University of Florida, Gainesville
1999-2001	Research Assistant Professor Department of Physiology (Primary appointment) University of Pennsylvania, Philadelphia
1998-2001	Research Assistant Professor Department of Radiology (Secondary appointment) University of Pennsylvania, Philadelphia
1998-1999	Chair of Research Department of Rehabilitation Medicine University of Pennsylvania, Philadelphia
1997-1999	Visiting Professor Department of Sports Medicine Free University Brussels, Belgium
1994-1999	Research Assistant Professor Department of Rehabilitation Medicine University of Pennsylvania, Philadelphia

Specialty Certification:

1988	Licentiate in Physical Therapy and Motoric Revalidation
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Licensure: Belgium

Awards, Honors, and Membership in Honorary Societies:

2019-2022	Term Professor, College of Public Health and Health Professions
2018	Distinguished Professor of Physical Therapy

2011	Member, NINDS Neuromuscular Diseases (NMD) Pediatric CDE Working Group, National Institutes of Health
2007-2010	Research Foundation Professor
2003-	Member, National High Magnetic Field Laboratory
1999	Associate Member, Institute for Human Gene Therapy, University of Pennsylvania
1998	Member of the Pennsylvania Muscle Institute
1996	APTA: Eugene Michels Researcher's Forum speaker
1995	NIH FIRST Award (R29-HD33738)
1994	McCabe Fund Pilot Project Award
1994	Scientific Astra-Prize from the Belgian Association of Sports Medicine and Sports Science
1993	Summa Cum Laude, Ph.D. in Physical Therapy and Motoric Revalidation
1992-1994	Fellowship of the Belgian National Funds for Scientific Research
1992	Fellowship for long study periods in a foreign country (NFWO)
1990-1992	Fellowship of the Belgian National Funds for Scientific Research
1989	Fulbright Award, Belgian American Educational Foundation Fellow
1988	Summa Cum Laude, Licentiate in Physical Therapy and Motoric Revalidation

Memberships in Professional and Scientific Societies:

International Societies:

International Society for Educators in Physiotherapy

National Federation for Doctors and Licentiates in Physical Therapy (Belgium Association)

Belgian American Education Foundation (BAEF)

International Society for Magnetic Resonance in Medicine (ISMRM)

National Societies:

American Society of Sports Medicine

American Physiological Society

Local Societies:

Fellow, Institute of Aging, University of Pennsylvania

Member, Pennsylvania Muscle Institute

Associate Member, Institute for Human Gene Therapy, University of Pennsylvania

Member, McKnight Brain Institute, University of Florida

Member, Advanced Magnetic Resonance Imaging and Spectroscopy Center

Member, Brooks Rehabilitation Center, University of Florida

Member, Institute of Aging, University of Florida

Editorial Positions:

2008- Ad hoc Reviewer for Applied Physiology

2002- Ad hoc Reviewer for Physical Therapy

2000- Ad hoc Reviewer for Acta Physiologica Scandinavia

2000- Ad hoc Reviewer for NMR in Biomedicine

1999- Ad hoc Reviewer for Exercise & Sports Science Reviews

1999- Reviewer for Magnetic Resonance in Medicine

1996- Ad hoc Reviewer for Journal of Gerontology: Biological Sciences

1996- Ad hoc Reviewer for American Journal of Applied Physiology

Reviewer in scientific committees and member of scientific advisory boards:

2016 University of Alabama – Center for Exercise Medicine - External Advisory Panel

2013 Grant Reviewer, NIH/NIAMS Musculoskeletal Biology P30 Grants

2012 Ad hoc Grant Reviewer for Prinses Beatrix Fonds

2011-2015 Ad hoc Reviewer, Skeletal Muscle Biology and Exercise Physiology study section (SMEP)

2011 External Reviewer, University of Iowa- Department of Physical Therapy and Rehabilitation Science

- 2011 Member, NINDS Neuromuscular Diseases (NMD) Pediatric CDE Working Group, National Institutes of Health
- 2011 Ad hoc Reviewer, Ancillary Studies to Large Ongoing Clinical Projects 2011/08 Council ZAR1 CHW M1 1, National Institutes of Health
- 2009-2010 Scientific Reviewer, Duchenne Parent Project, The Netherlands
- 2008-2014 Scientific Advisory Board Member: National Center for Medical Rehabilitation Research, Integrated Molecular Core for Rehabilitation Medicine, Children's National Medical Center, Washington DC
- 2007 External Reviewer, University of Maryland- School of Medicine – Department of Physical Therapy and Rehabilitation Science
- 2006 Chair Special Emphasis panel Session (August 2006): ZHD1 DSR-T BMS
- 2005-2009 Permanent Reviewer: "Function, Integration and Rehabilitation Sciences Subcommittee" NIH study section
- 2004-2008 Ad hoc Reviewer: Special Emphasis Panel-ZHD1 DSR-T BMS
- 2004-2006 NIH: Ad hoc reviewer: Skeletal Muscle and Exercise Physiology study section
- 2003 Reviewer Special Emphasis Panel: Molecular and Cellular Basis of Contractures of the Design of Therapeutic Interventions
- 2000 Ad hoc reviewer Moss Rehabilitation Research Institute
- 2000-2002 NIH: Ad hoc reviewer Geriatrics and Rehabilitation Medicine study section
- 2000 NASA: Reviewer Nutrition, Physical Fitness Rehabilitation study section
- 1999 NIH: Ad hoc Reviewer Chronic Fatigue Syndrome study section

Principal Investigator of Grants (Direct Cost):

A Phase 2 Randomized, Double-blind, Placebo-controlled Study to Evaluate the Effect of EDG-5506 on Safety, Biomarkers, Pharmacokinetics, and Functional Measures in Adults and Adolescents with Becker Muscular Dystrophy (EDG-5506-201). \$1,653,819. Edgewise Therapeutics, Inc. 6/14/22 – completion. (Principal Investigator).

Microdystrophin Gene Transfer Study in Adolescents and Children with DMD (IGNITE DMD). \$37,850. Solid Biosciences Inc. 11/29/21 - completion. (Principal Investigator).

A Phase 3, Multinational, Randomized, Double- Blind, Placebo-Controlled Systemic Gene Transfer Therapy Study to Evaluate the Safety and Efficacy of SRP-9001 in Non-Ambulatory and Ambulatory Subjects with Duchenne Muscular Dystrophy (ENVISION- SRP-9001-303). \$1,411,451. Sarepta Therapeutics, Inc. 11/2/21 - completion. (Principal Investigator).

Defining Endpoints in Becker Muscular Dystrophy - GRASP" under protocol number GRASP-01-002 ("GRASP"). \$1,639,223. Edgewise Therapeutics, Inc. 10/20/21 – completion. (Principal Investigator).

An Open-Label, Systemic Gene Delivery Study Using Commercial Process Material to Evaluate the Safety of and Expression from SRP-9001 in Subjects with Duchenne Muscular Dystrophy (EMBARK)" (SRP-9001-301). \$1,332,762. Sarepta Therapeutics, Inc. 7/23/21 - completion. (Principal Investigator).

An Open-Label, Systemic Gene Delivery Study Using Commercial Process Material to Evaluate the Safety of and Expression from SRP-9001 in Subjects with Duchenne Muscular Dystrophy (ENDEAVOR)" (SRP-9001-103). \$503,992. Sarepta Therapeutics, Inc. 5/18/21 - completion. (Principal Investigator).

A randomized, double-blind, placebo-controlled study of SRP-9001 for Duchenne Muscular Dystrophy (SRP-9001-102). \$508,783. Sarepta Therapeutics, Inc. 9/8/20 – completion. (Principal Investigator).

R01AR056973: Magnetic Resonance Imaging and Biomarkers for Muscular Dystrophy. \$6,398,104. NIH – NIAMS. 9/10/20 – 8/31/25. (Principal Investigator).

A Phase 1/2 Open-label, Dose Escalation and Dose Expansion Study to Evaluate the Safety, Tolerability, Pharmacodynamics, and Pharmacokinetics of Intravenous RGX-202 Gene Therapy in Males with Duchenne Muscular Dystrophy (DMD) (RGX-202-1101). \$ 1,802,454.75. REGENXBIO Inc. 3/4/22 – 12/30/24. (Principal Investigator).

5K12HD055929-15: Rehabilitation Research Career Development Program. \$297,061. University of Texas Medical Branch/NIH – NICHD. 9/1/21 – 8/31/23. (Site Principal Investigator).

A Randomized, Double-Blind, Placebo-Controlled Phase 1b Study with Open-Label Extension to Assess the Safety, Tolerability and Preliminary Efficacy of ASP0367 (MA-0211) in Pediatric Male Patients with Duchenne Muscular Dystrophy. \$246,527 Astellas Pharma Inc. 9/19/21 – 9/30/23 (Principal Investigator).

A Phase 1/2 Dose-escalation Study to Evaluate the Safety of LION-101 in Adult Subjects With Genetic Confirmation of LGMD2I/R9 (Part1) (LION-CS101). \$314,150. Asklepios BioPharmaceutical, Inc. 3/23/22 – 3/22/24. (Principal Investigator).

A natural history and biomarker development study in subjects with limb-girdle muscular dystrophy 2i (LGMD 2i MRI Subproject). \$527,177. Virginia Commonwealth University/ ML Bio Solutions, Inc. 2/15/20 – 2/18/23 (Principal Investigator).

A randomised, double blind, placebo controlled, multicentre study to evaluate the efficacy and safety of givinostat in ambulant patients with Duchenne Muscular Dystrophy (Placebo-arm supplement). \$66,588. Italfarmaco S.p.A., 2/2/22 – 6/30/22. (Principal Investigator).

A natural history and biomarker development study in subjects with limb-girdle muscular dystrophy 2i (LGMD 2i), 2020–2022, \$527,177.00 USD (Director and Principal Investigator)

Rehabilitation Research Career Development Program, K12 HD055929-08, 2007-2022, \$2,350,651 (Deputy Director and PI on subcontract)

A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Macroscopic Effects on Muscles, The Safety and Tolerability, and the Efficacy of Givinostat in Patients with Becker Muscular Dystrophy, \$334,180 USD, 2017-2021, (Principal Investigator)

ImagingDMD for Givinostat Phase 3 Clinical Trial. Italfarmaco S.p.A. DSC/14/235/48, 2016-2020 \$3,196,520 (Principal Investigator)

A Randomised, double blind, placebo controlled study to evaluate the micro-macroscopic effects on muscles, the safety and tolerability, and the efficacy of givinostat in patients with Becker Muscular Dystrophy, Italfarmaco SpA, DSC/14/235/53, 2017-2019, \$142,142 (Principal Investigator)

Interdisciplinary pre-doctoral training in neuromuscular plasticity and rehabilitation. NIH-T32, 2008-2019 \$1,645,223 (Principal Investigator)

A Phase 2 clinical Study to Assess Activity and Safety of SMT C1100 in Boys with DMD, Summit (Oxford) Therapeutics, Inc. SMT C11005, 2015-2018 \$1,478,637 (Principal Investigator)

MR Imaging and Spectroscopy in DMD patients enrolled in CAT-1004., Catabasis Pharmaceuticals Inc., 2016-2018, 2,164,601 (Principal Investigator)

MR Imaging in Eteplirsen study 4658-203, Sarepta Therapeutics, Inc. 4658-203, 2015-2018, \$1,082,995 (Principal Investigator)

A Phase ½ Study of CAT-1004 in pediatric patients with Duchenne muscular dystrophy, Catabasis Pharmaceuticals Inc., CAT-1004-201, 2015-2019, \$1,620,944 (Principal Investigator)

Magnetic Resonance Imaging and Biomarkers for Muscular Dystrophy, Eli Lilly & Co., 2013-2015, \$233,742 (Principal Investigator)

LLV5: MRI/MRS of Skeletal Muscle in Boys with Duchenne Muscular Dystrophy, NIH H6D-MC-LVJJ, 2013-2016 \$233,742 (Principal Investigator)

Magnetic Resonance Imaging and Biomarkers for Muscular Dystrophy - Administrative Supplement for Collaborative Activities to Promote Metabolomics Research, NIH, R01 AR056973, 2012-2013, \$100,000 (Principal Investigator)

Magnetic Resonance Imaging and Biomarkers for Muscular Dystrophy-Supplement, PPMD, 00650, 2012-2013, \$59,598.00 (Principal Investigator)

Therapeutic Strategies to Augment Muscle Rehabilitation, NIH/NICHD P01 HD059751, ARRA Supplemental Grant, 2009-2012, \$1,567,539 (Principal Investigator)

MR Monitoring of PTC124 Treatment in DMD, NIH/NIAMS RC1 AR058189, Challenge Grant, 2009-2012, \$735,407 (Principal Investigator)

MR Monitoring of PTC124 Treatment in DMD, MDA, 2009-2010, \$126,295 (Principal Investigator)

MRI Imaging and Biomarkers for Muscular Dystrophy, PPMD 8509, 2009-2010, \$200,000 (Principal Investigator)

Molecular Signatures of Muscle Rehabilitation after Limb Disuse, NIH/NICHD ARRA Administrative Supplement, 2009-2011, \$134,907 (Principal Investigator)

Viral Mediated IGF-I Gene Therapy, The Craig H. Neilsen Foundation, 2008-2010, \$119,962 (Principal Investigator)

Validation of MRI for Clinical Trials in Muscular Dystrophy, Muscular Dystrophy Association, 2006-2009, \$391,876 (Principal Investigator)

Modulation of Muscle Growth for Muscle Dystrophies, Subcontract to the University of Pennsylvania NIH-U54AR052646, 2006-2011, \$5,000,000, (PI: Lee Sweeney, Role: PI on subcontract)

IGF-1 Gene Transfer and Locomotor Training After SCI, Paralyzed Veterans of America Spinal Cord Foundation, 2005-2006, \$148,549 (Principal Investigator)

Molecular Signatures of Muscle Rehabilitation After Limb Disuse, NIH-R01HD048051, 2004-2010 \$1,250,000, (Principal Investigator)

Interdisciplinary Training in Rehabilitation and Neuromuscular Plasticity, NIH T32HD043730A, 2003-2009, \$797,980 (Principal Investigator)

IGF-I Gene Transfer to Accelerate Recovery Following Disuse, NIH RO1HD042955, 2002-2006, \$550,571 (Principal Investigator)

Mechanisms of Muscle Dysfunction and Recovery after Limb Disuse, NIH-R01 HD37645-01, 1999-2004, \$800,769, (Principal Investigator)

Gene Therapy for Neuromuscular Disorders, Muscular Dystrophy Association, 1998-1999, \$25,000, (Principal Investigator)

Restoration of Muscle Function during Rehabilitation, NIH-First Award, 1-R29-HD33738-01, 1995-2000, \$349,896, (Principal Investigator)

Muscular Atrophy - Noninvasive Quantitative Assessment Using NMR, McCabe Fund Pilot Project Award, 1994, \$20,000, (Principal Investigator)

Co-PI on Grants (Direct Cost):

W81XWH-21-1-0566: MR Biomarkers of Bone Quality in DMD. (Rebecca Willcocks, PI). \$36,765. US Army Medical Research Acquisition. 9/30/21 – 9/29/24. (Co-Investigator).

R21TR004006: Optimizing Muscular Dystrophy Clinical Trial Designs using Modeling and Simulation (Sarah Kim, PI). \$39,024. NIH – NCATS. 9/1/21 – 7/31/23. (Co-Investigator).

P50AR052646: Understanding and Improving Therapies for the Muscular Dystrophies. (H. Lee Sweeney, PI). \$104,429. NIH – NIAMS. 5/3/22 – 7/31/23. (Co-Investigator).

R01AR076060: Development of MRI, Alternative Splicing, and Functional Abilities as Biomarkers in Myotonic Dystrophy Type 1. \$36,915. (Donovan Lott, PI). NIH – NIAMS. 8/17/20 – 6/30/23. (Co-Investigator).

T32HD043730: Interdisciplinary Training in Neuromuscular Plasticity and Rehabilitation. (David Fuller, PI). \$0 NIH – NIHCD. 5/1/22 – 4/30/23. (Co-Investigator).

MR Assessment of Bioenergetics and Microvascular Function in Dystrophic Muscle, NIH/NIAMS R01 R01AR070101, 2016-2021, \$1,721,785 (PI: Sean Forbes, Role: Co-PI)

Failed Regeneration in the Muscular Dystrophies: Inflammation, Fibrosis and Fat, Senator Paul D Wellstone Muscular Dystrophy Center Grant NIH-U54AR052646, 2005-2020, \$7,612,680(PI: Lee Sweeney; Role: Co-PI)

OneFlorida Clinical Research Consortium Phase II, PCORI CDRN-1501-26692, 2015-2018, \$7,618,009 (PI: Elizabeth Shenkman, Co-Investigator)

The Relationship Between Genomic Variants and MRI/MRS Markers in DMD, NIH/NIAMS R01 AR065943, 2013-2017, \$978,228 (PI: Glenn Walter, Role: Co-PI)

Failed Regeneration in the Muscular Dystrophies: Inflammation, Fibrosis and Fat, Senator Paul D Wellstone Muscular Dystrophy Center Grant NIH-U54AR052646, 2005-2020, \$7,612,680 (PI: Lee Sweeney; Role: Co-PI)

Optical Imaging of Dystrophic and Damaged Muscle, Department of Defense, Office of the Congressionally Directed Medical Research Programs, MD 1100050, 2015-2016, \$978,228 (PI: Glenn Walter, Role: Co-PI)

Development of a Strength Training Protocol in Duchenne Muscular Dystrophy. NIH/NIAMS (R21 AR064949). 2014- 2017, \$275,000 (PI: D. Lott, Role: Co-PI)

Planning a Multi-Center clinical trial of PDE5A inhibition for DMD, National Institutes of Health, NIAMS U34 AR062893, Clinical Trial Planning grant, 2012-2013, \$200,000 (PI: Ronal Victor, Role: Co-PI)

Muscle Injury Prevention and Rehabilitation in Military Personnel. Florida Institute on Disability and Rehabilitation, Department of Defense, Project 6 on MRMC 10218007 USA, 2011-2013, \$182,595, (PI: Donovan Lott; Role Co-PI)

Florida Trauma Rehabilitation Center for Returning Military Personnel, Department of Defense, USA MRMC 10218007, 2011-2014, \$2,096,000, (PI: William Mann; Role: Co-PI)

Comparative Resistance Exercise Effects on Knee Osteoarthritis Pain, Functional Impairment and Cartilage Turnover, NIH, R03, AR059786, 2010-2013 \$140,640 (PI: Kevin Vincent; Role: Co-PI)

Claude D. Pepper Older Americans Independence Center, NIH, 2006-2011, \$6,121,206 (PI: Marco Pahor; Role: Co-PI 2006-2008)

Weight loss in older obese African American Women, University of Florida Funding Opportunity, 2006-2007, \$81,876 (PI: Michael Perri; Role: Co-PI)

Noninvasive Monitoring and Tracking of Muscle Stem Cells, NIH-R01HL078670, 2004-2008, \$1,108,000, (PI: Glenn Walter; Role: Co-PI)

NMES after total knee arthroplasty, NIH-RO1 subcontract to University of Delaware, 2001-2006, \$1,125,000 (PI: Lynn Snyder-Mackler; Role PI on subcontract to University of Delaware in 2001-2002)

Gradient Upgrade on 2T Human MRI/MRS system, 1S10RR015709-01, 2001, \$326,750, (PI: John S. Leigh, Role: Co-PI)

Physiological Basis of Muscle Functional MRI, NIH-RO1AR043903, 2001-2006, \$900,000, (PI: Ronald Meyer; Role: PI on subcontract to Michigan State University in 2001 until transfer to UF)

Metabolic and Transport Pathways in Skeletal Muscle, NIH-R01AR045394, 2001-2006, \$980,346 (PI: Robert Forster; Role: PI on subcontract to University of Pennsylvania)

Energy Homeostasis in Human Obesity, NIH RO1-DK30583, 1996-2001, \$1,324,500, (PI: Rudolph Leibel; Role: PI on subcontract to Columbia University)

The effect of Estrogen and DHEA supplementation on serum Lipids, Muscle Mass, Muscle and Endurance: A Pilot RCT, Berlex Foundation, 1999-2000, \$50,000, (PI: Kurt Barnhart; Role: Co-PI)

Testosterone and Reconditioning in Elderly Man, ALZA, 1999-2000, \$80,906, (PI: Peter Snyder; Role: Co-PI)

A Resource for Magnetic Resonance and Optical, NIH-2P41-RR02305-12, 1994-1999, \$3,222,291 (PI: John S. Leigh, Role Co-PI)

Mentor/Sponsor on Grants (Direct Cost):

MRI, MRS, and functional characterization of the arm in DMD. Muscular Dystrophy Association (AGR DTD 07-17-2015) 2015-2018, \$171,411 (PI: Rebecca Willcocks)

MRI/MRS assessment of perfusion and metabolism in dystrophic muscle. Muscular Dystrophy Association Development Grant, 2010-2013, \$179,327 (PI: Sean Forbes)

Comprehensive Assessment of the Impact of Illness and Disability in Children, National Institute for Child Health & Human Development/National Institutes of Health (K01 HD064778), 2010-2015, \$524,710 (PI: Roxanne Bendixen)

UF Clinical and Translational Science Award, NIH-5KL2RR029888, 2009-2014, \$3,019,440 (PI: David Nelson; Role: Mentor, member of the CTSI's Translational Science Adv. Committee, member KL2 Multidisciplinary Advisory Committee.

Peripheral muscle properties and the energetic cost of walking post-stroke. Department of Veterans Affairs Career Development Award-2, 2008-2013, \$352,068 (PI: Chris Gregory)

Muscle Weakness and Post-Traumatic Knee OA, NIH-K01 career award, 2007-2012, \$487,907 (PI: Terese Chmielewski)

Development of a Lyapunov-based control framework for NMES applications", NSF Career award, 2006-2009, \$350,000 (PI: Warren Dixon)

Perineural Anesthetic Infusion after Joint Replacement, NIH-K23GM077026, 2005-2010, \$571,250, (PI: Brian Ilfeld)

Muscle Function and Locomotor Recovery after CNS injury, VA postdoctoral fellowship, 2005-2007, \$108,000 (PI: Chris Gregory)

Perineural Local Anesthetic Infusion Following Total Knee and Hip Replacement, Foundation For Anesthesia Education Research (FAER), 2005-2007, \$255,000, (PI: Brian Ilfeld)

Muscle Plasticity in Spinal Cord Injury, VA postdoctoral fellowship, 2003-2005, \$102,000, (PI: Jennifer Stevens)

Anti-oxidants to promote muscle recovery following limb disuse, predoctoral fellowship, Department of Veterans Affairs, \$20,000, 2003-2004, (PI: Tiffany Frimel)

Muscle Damage during Reloading, PODS Level II Scholarship, Foundation for Physical Therapy, American Physical Therapy Association, 2003-2004, (PI: Tiffany Frimel)

PODS Level I Scholarship, Foundation for Physical Therapy, American Physical Therapy Association, 2002-2003 (PI: Tiffany Frimel).

Restoration of Muscle Function During Rehabilitation, NIH Research Supplement for Under-represented Minorities, 3-R29-HD-337838-01-S1, 1996-1997, \$33,527, (PI: Richard Williams)

Consultant on Grants (Direct cost):

NCMRR Integrated Molecular Core for Rehabilitation Medicine Infrastructure grant, R24HD050846, 2005- 2011, \$5,340,450, (PI: Eric Hoffman)

Strength Training using NMES in Children with CP, NIH-R01HD043859, 2004-2009, \$750,000, (PI: Samuel Lee)

Academic Committees:

- 2002- Member College of Public Health and Health Professions Executive Committee
- 2009-2017 Member, UF-CTSI, KL2 Multidisciplinary Advisory Committee.
- 2015-2016 Chair, Occupational Therapy Department Chair Search Committee
- 2014-2015 Member, Neuroscience and Brain Preeminent Recruitment Committee
- 2015 Member, Director of Bachelor of Public Health Search Committee
- 2014 Member, Metabolomics Preeminent Recruitment Committee
- 2011-2013 Member, UF CTSI Executive Operations Committee
- 2011 Member, College of Public Health and Health Professions, PhD Review Committee, University of Florida
- 2010-2011 Member, College of Public Health and Health Professions, Chair of Clinical and Health Psychology Search Committee, University of Florida
- 2010-2011 Member, College of Engineering, Chair of Biomedical Engineering Search Committee, University of Florida
- 2010 Member, VA BRRC Director Search Committee, VA Medical Center/University of Florida
- 2009 Member, College of Medicine Dean Search Committee, University of Florida
- 2009 Member, PHHP Dean Search Committee, University of Florida
- 2008 Grant Reviewer, Washington University Grant Review
- 2008 External Reviewer, University of Delaware

- 2007-2008 Chair, Biomedical Research Program, University of Florida Opportunity Fund 2007 External Reviewer, Department of Physical Therapy, University of Maryland
- 2002 Member, Leadership Committee, College of Public Health and Health Professions
- 1999 Member, Faculty- 2000, Special Opportunities Working group
- 1998-1999 Chair, Research Committee, Department of Rehabilitation Medicine
- 1997 Member, Review Committee, Pennsylvania Muscle Institute

Major Teaching and Research Training Activities:

Supervision of students and research fellows:

Mario Beltran, Undergraduate Student, College of HHP, Applied Physiology and Kinesiology, 2012

Emelie Grady, Undergraduate Student, College of HHP, Applied Physiology and Kinesiology, 2012

Steven Svoboda, High School Student, UF-Student Science Training Program, Florida Alliance Scholar, 2010-2011

Nicholas Israel-Stahre, Undergraduate Student, College of HHP, Applied Physiology and Kinesiology, 2010-2011

Stephanie Wickham, Undergraduate Student, College of PHHP Honors Program, 2009-2010

Jacqueline Urcuyo, Undergraduate Student, College of PHHP Honors Program, 2009-2010

Alicia Kinsey, Undergraduate Student, College of PHHP Honors Program, 2008-2009

Robyn Hinds, Undergraduate Student, College of PHHP Honors Program, 2008-2009

Patty Hovis, Graduate Student, Physical Therapy, 2008

Kayla Vallerand, Undergraduate Student 2004-2005

Fatema Kapadia, Masters Student, Physical Therapy, 2002-2004

Peter Yeh, Undergraduate, Electrical Engineering, 1999

Mark Kurish, Undergraduate, Biology, 1998-1999

Chris Gregory, Graduate Student, 1996-1999

David Russ, Graduate Student, Biomechanics and Movement Science, 1998

Matthew Muskett, Undergraduate, Biology, 1998-1999

Richard Williams, Graduate Student, 1997-1998

Emad Al-Farre, Masters Student, Oral Biology, 1997-1998

William Shull, research fellow, Rehabilitation Medicine, 1995

Naveen Ramineni, Medical student, 1998

William Luchetti, resident, Orthopedic Surgery, 1996-1997

David Tahernia, resident, Orthopedic Surgery, 1996-1998

Alexandria Robinsky, Medical student, 1997

Sadi Abdus, Research Fellow, 1997

William Jaffe, Medical student, 1997

Heather Gullish, Medical student, 1996

Sachin Sachiada, Masters Student, Biomedical Engineering, 1996

Faruk Ficqbal, Undergraduate, Computer Science, 1994

Mentor of Post-doctoral Fellows and Junior Faculty:

Kelly Rock, Current Post-Doctoral Fellow 2023

Woo Taek Lim, Post-Doctoral Fellow, 2014-2015

Current Position: Assistant Professor and Director, Advanced Institute of Convergence Sports Rehabilitation, Woosong University, South Korea

Ravneet Singh Vohra, Post-Doctoral Fellow, 2012-2015 (Co-Mentorship with Dr. Glenn Walter)

Current Position: Research Associate, Neurology, University of Washington

Rebecca Willcocks, Post-doctoral Fellow, 2011-2015

Current Position: Research Assistant Professor, Physical Therapy, University of Florida

Fan Ye, Post-doctoral Fellow, 2010- 2012

Last known Position: Post-Doctoral Fellow, Applied Physiology and Kinesiology, University of Florida

Celine Baligand, (co-mentor), Post-doctoral Fellow, 2009- 2014

Current Position: Senior Researcher, Leiden University Medical Center, The Netherlands

Sean Forbes, Post-doctoral Fellow and Junior Faculty, 2008-2011

Current Position: Associate Professor, Physical Therapy, University of Florida

Mark Bishop, (co-mentor), Junior Faculty, 2008-2012

Current Position: Professor, Physical Therapy, University of Florida

Roxanna Bendixen, Junior Faculty, 2008- 2014

Current Position: Associate Professor & Division Director, Occupational Therapy, MUSC

Funding: Rehabilitation Research Career Development Program

Min Liu, Post-doctoral Fellow, 2008-2010

Current Position: Senior Research Investigator, University of Pennsylvania

Donovan Lott, Post-doctoral Fellow and Junior Faculty, 2007-2008

Current Position: Research Associate Professor, Physical Therapy, University of Florida

Sunita Mathur, Post-doctoral Fellow, 2007-2008

Current Position: Associate Professor, Department of Physical Therapy, University of Toronto

Warren Dixon, Junior faculty, 2005- 2008

Current Position: Professor, Department of Mechanical and Aerospace Engineering, University of Florida

Brian Ilfeld, Junior faculty, 2004- 2007

Current Position: Professor, Director of Clinical Research, Department of Anesthesiology, University of California at San Diego

Chris Gregory, Post-doctoral Fellow, 2003-2006

Current Position: Associate Professor, Department of Health Sciences and Research, MUSC

Jennifer Stevens, Post-doctoral fellow, 2002-2005

Current Position: Professor, Department of Physical Therapy, University of Denver

Samuel Lee, Post-doctoral fellow, 1999-2000

Current Position: Associate Professor, Department of Physical Therapy, University of Delaware

Preceptor of the following PhD students:

Prathyusha Bellam, Graduate Student, Rehabilitation Science, 2021-Present

Kavya (Kamamma) Nair, Graduate Student, Rehabilitation Science, 2016-2022

Dissertation Project: "Disease Progression in Duchenne Muscular Dystrophy with Emphasis on Loss of Ambulation: A Multicenter Longitudinal Study"

Current Position: Assistant Professor of Instruction, Department of Health and Rehabilitation Sciences, Temple University

Funding: UF Department of Physical Therapy Teaching Assistant

Alison Barnard, Graduate Student, Rehabilitation Science, 2014-2018

Dissertation Project: "Lower Extremity and Respiratory Muscle Magnetic Resonance Biomarkers in Duchenne Muscular Dystrophy: Relationships to Clinical Function and Effects of Genetic Modifiers"

Current Position: Research Assistant Professor, Department of Physical Therapy, University of Florida

Funding: T32 Training grant

Umar Alabasi, Graduate Student, Rehabilitation Science, 2013-2018

Dissertation Project: "Assessment of Disease Progression in Upper and Lower Extremity Muscles in Boys with Duchenne Muscular Dystrophy Using Magnetic Resonance Imaging/Spectroscopy and Clinical Outcome Measures"

Current Position: Head of Physical Therapy Department at King AbdulAziz University, Jeddah, Makkah, Saudi Arabia

Funding: Saudi Arabia Government Fellowship

Harneet Arora, Graduate Student, Rehabilitation Science, 2013-2017

Dissertation Project: "Examination of Disease Progression in Upper and Lower Limb Muscles in Boys with DMD Using Functional Clinical Endpoints and Magnetic Resonance Imaging"

Current Position: Postdoctoral Fellow, Physical Therapy, University of Florida

Funding: Teaching Assistant, Research Assistant, Wellstone NIH training grant

Abhinandan Batra, Graduate Student, Rehabilitation Science, 2011-2017

Dissertation Project: "Non-Invasive Monitoring of Disease Progression in Duchenne Muscular Dystrophy & Collagen VI Myopathy"

Current Position: Postdoctoral Fellow, Physical Therapy, University of Florida

Funding: Alumni Fellowship, Wellstone NIH training grant

Steven Chrzanawski, Graduate Student, Interdisciplinary Program in Biomedical Sciences, 2012-2016

(Co- Mentored with Dr. Glenn Walter)

Dissertation Project: “Therapeutic Intervention in Dystrophic Muscle”

Current position: Completing MD PhD program, University of Florida

Funding: T32 Training Grant

Brittany Lee, Graduate Student, Interdisciplinary Program in Biomedical Sciences, 2012-2016

(Co- Mentored with Dr. Glenn Walter)

Dissertation Project: “Metabolomic Analysis in Muscle Disease”

Current Position: Postdoctoral Fellow, Genetics, Stanford University

Funding: CTSI Predoctoral Training Program, T32 Training grant

Arjun Ruhella, Graduate Student, Rehabilitation Science, 2010- 2013

Current Position: Not known

Funding: Alumni Fellowship – Transitioned to masters program.

Woo Taek Lim, Graduate Student, Rehabilitation Science, 2009- 2014

Dissertation Project: “Muscle Plasticity in Contusion Spinal Cord Injury”

Current Position: Assistant Professor and Director, Advanced Institute of Convergence Sports

Rehabilitation, Woosong University, South Korea

Funding: Alumni fellowship

Jasjit Deol, Graduate Student, Rehabilitation Science; Research Assistant, 2008- 2012

Dissertation Project: “Qualitative Assessment of Disease Progression in boys with Duchenne Muscular Dystrophy”

Current Position: Not known

Funding: Research Assistantship

Ishu Arpan, Graduate Student, Rehabilitation Science, 2008- 2014

Dissertation Project: "T2 measures of muscle damage in boys with Duchenne Muscular Dystrophy"

Current Position: Post-Doctoral Associate, Physical Therapy, Oregon Health Science University

Funding: Alumni fellowship, Wellstone NIH training grant

Ravneet Singh Vohra, Graduate Student, Rehabilitation Science; Research Assistant, 2007- 2012

Dissertation Project: "Non-invasive monitoring of disease progression in Duchenne Muscular Dystrophy"

Current Position: Research Associate, Neurology, University of Washington

Funding: Research Assistantship

Nathan Bryant, Graduate Student, IDP in Biomedical Sciences, 2006-2010

(Co-mentored with Dr. Glenn Walter)

Dissertation Project: "Noninvasive Characterization of Skeletal Muscle Damage and Repair in Murine Models of Muscular Dystrophy Using a Multimodal Imaging Approach with MRI"

Last known Position: Post Doctoral Fellow, Vanderbilt University

Funding: T32 training grant

Fan Ye, Graduate Student, Rehabilitation Science, 2005- 2010

Dissertation Project: "Role of IGF-I to modulate muscle plasticity during limb disuse"

Current Position: Post Doctoral Fellow, University of Florida, Department of Applied Physiology and Kinesiology

Funding: Alumni Fellowship

Arun Jayaraman, Graduate Student, Rehabilitation Science, 2003-2008

Dissertation Project: "Functional assessments and locomotor recovery in incomplete SCI"

Current Position: Director, Rehabilitation Technologies & Outcomes Lab; Rehabilitation Institute of Chicago and Associate Professor, Department of Physical Medicine and Rehabilitation Northwestern University

Funding during training: Alumni fellowship, Outstanding International Student Award, Frederick RSD scholarship

Prithvi Shah, Graduate Student, Rehabilitation Science, 2004-2008

Dissertation Project: "Implementation of MRI to study skeletal muscle in patients with SCI"

Current Position: Assistant Professor, Physical Therapy, Stony Brook University

Funding during training: Alumni fellowship, Outstanding International Student Award

Min Liu, Graduate Student, Rehabilitation Science, 2003-2006

Dissertation Project: "Muscle Plasticity following Spinal Cord Injury in Rats"

Current Position: Research Associate, University of Pennsylvania

Funding during training: Alumni fellowship, Outstanding International Student Award

Neeti Pathare, Graduate Student, Rehabilitation Science, 2002-2005

Dissertation Project: "Muscle adaptations following limb disuse"

Current Position: Associate Professor, Department of Physical Therapy, Russell Sage Colleges, Troy, New York

Funding during training: Alumni fellowship, Outstanding International Student Award, Frederick RSD scholarship

Tiffany (Frimel) Hilton, Graduate Student, Rehabilitation Science, 2001-2005

Dissertation Project: "Muscle atrophy and reloading in a mouse model"

Current Position: Associate Professor, Duke University Department of Physical Therapy, Rochester, New York

Funding during training: ODS Level I Scholarship, Viva J. Erickson Scholarship, PODS Level II Scholarship, VA predoctoral fellowship

Current students

Prathyusha Bellam, Graduate Student, Rehabilitation Science, University of Florida, 2021-2025 (anticipated graduation date)

Member of Dissertation Committees:

Pratiksha Awale, Graduate Student, Rehabilitation Science, University of Florida, 2021-2025 (anticipated graduation date)

Cameron Miles, Doctoral Candidate, Rehabilitation Science, University of Florida, "Identification of Mechanisms and a Novel Therapeutic Intervention to Counter Cancer-associated Cachexia", 2019-2023 (anticipated graduation date)

Dominique DuBose, Doctoral Candidate, Rehabilitation Science, University of Florida, "The Effect of Sports-Related Concussion on Neuromuscular Function", 2014-2017

Stephen Chrzanowski, Hypertension T32 Fellowship, University of Florida, "Near Infrared Optical Imaging and Magnetic Resonance Characterization of Dystrophic and Damaged Muscle", 2013-2016

Brittany Lee, CTSA TL2, McKnight, Neuromuscular Plasticity T32 Fellowship, University of Florida. "A Metabolomics Approach to Investigate Disease Progression in Duchenne Muscular Dystrophy", 2013-2016

Brandon Roberts, Doctoral Candidate, Rehabilitation Science, University of Florida, "The Role of Fox01 during Cancer Cachexia", 2012-2016

Adam Beharry, Doctoral Candidate, Rehabilitation Science, University of Florida, "The Regulation of Fox01 via Histone Deacetylation (Hdacs) during Cancer Cachexia", 2011-2015

Chao-Jung Hsu, Doctoral Candidate, Rehabilitation Science, University of Florida, "Impairments and Rehabilitation Outcomes in Patients with Traumatic Meniscal Tears and Meniscectomy", 2010-2014

Barbara K. Smith, Doctoral Candidate, Rehabilitation Science, University of Florida, "Respiratory Exercises and Diaphragm Myofiber Remodeling," 2007- 2010

Joel Bialosky, Graduate Student, Rehabilitation Science, University of Florida, "Manipulation for Treatment of Lower Back Pain", 2004-2008

Darin Falk, Graduate Student, Health and Human Performance, University of Florida, "Mechanical Ventilation and Respiratory Muscles", 2003-2008

Ira Smith, Graduate Student, Health and Human Performance, University of Florida, "Calpain Activation during muscle atrophy", 2001-2005

Nicole Tester, Doctoral Candidate, Medical Sciences, University of Florida, "Effects of CS GAG Degradation on Motor Recovery Post-SCI", 2002-2006

David Russ, Doctoral Candidate, Biomechanics and Movement Science, University of Delaware, "Metabolic Optimization of Functional Electrical Stimulation", 1998-2001

Emad Al-Farra, Master's degree candidate Oral Biology, School of Dental Medicine, University of Pennsylvania "Magnetic Resonance Spectroscopy of the Masseter Muscle", 1997-1998

Training Mentor:

T-32- HD043730A "Interdisciplinary Training in Rehabilitation and Neuromuscular Plasticity", 2003-current (Director of Program)

T32- HL134621 "Breathing Research and Therapeutics, 2017-2022

K12 HD055929 Rehabilitation Research Career Development Program, K12 HD055929-08, 2007- 2022, (Deputy Director of Program)

NIH-HL07614-05 "Metabolic Magnetic Resonance Training," 1998-2001

T32-AR07584 "Training in Muscle Biology," 1998-2001

T32-HD07425 "Research Training in Neurologic Rehabilitation Grant," 1996-2001

Other Teaching Activities:

Academic Year 2022-2023

- RSD6930: Seminar Course: The Art of Scientific Dissemination

Academic Year 2020-2021

- RSD6930: Seminar Course: Special Topics

Academic Year 2018-2019

- RSD6930: Seminar Course: The Art of Scientific Dissemination

Academic Year 2016-2017

- RSD6930: Seminar Course: The Art of Scientific Dissemination

Academic Year 2014-2015

- PHT6935: Seminar Course: The Art of Scientific Dissemination

Academic Year 2011-2012

- RSD6935C: Doctoral Seminar in Rehabilitation Science

Academic Year 2009-2010

- PHT6935C: MRI and Muscle Analysis I

Academic Year 2007-2008

- PHT6935: Seminar Course: The Art of Scientific Dissemination

Academic Year 2006-2007

- PHT6935: Rehabilitation Seminar Course: The Art of Scientific Presentation

Academic Year 2005-2006

- Seminar Course: Magnetic Resonance I
- Seminar Course: Magnetic Resonance II: Muscle Analysis II
- PHT6935: Rehabilitation Seminar Course: The Art of Scientific Presentation

Academic Year 2004-2005

- Seminar Course: Magnetic Resonance I
- Seminar Course: Magnetic Resonance II: Muscle Analysis II
- Supervised Teaching

Academic Year 2003-2004

- Seminar Course: Magnetic Resonance I
- Seminar Course: Magnetic Resonance II: Muscle Analysis II
- PHT6935: Rehabilitation Seminar Course: The Art of Scientific Presentation

Academic Year 2002-2003

- Advanced research Course, RSD Program
- Supervised Research, RSD program

Academic Year 1999-2000

- Neurophysiology course
- Physical Therapy and Physical education Program
Free University Brussels

Academic Year 1998-1999

- Physiology course
- Physical Therapy and Physical education Program
Free University Brussels
- Coordinator, Rehabilitation Medicine Research Seminars
Department of Rehabilitation Medicine,
University of Pennsylvania

Academic Year 1997-1998

- 993 MRS applications

Department of Rehabilitation Medicine,
University of Pennsylvania

- 998 Muscle Metabolism

Department of Rehabilitation Medicine,
University of Pennsylvania

Lectures by Invitation:

Mar 2023 “Givinostat in DMD: results of the Epidys Study with particular attention to MR measures of muscle fat fraction”, MDA Clinical & Scientific Conference, Dallas, TX

Mar 2023 “MR Imaging Biomarkers in Duchenne Muscular Dystrophy”, PhD in Rehabilitation Science, Seminar Series, Gainesville, FL

Jan. 2023 “MR Imaging & Muscular Dystrophies”, Dyne Therapeutics Leadership Lunch & Learn, Waltham, MA

Jan. 2023 “Learnings of MR Imaging, Gene Therapy, and Clinical Trials”, PPMD Early Healthcare Summit, New York City, NY

Dec. 2022 “MR Biomarkers for Becker Muscular Dystrophy”, PPMD DDDR Meeting, Washington DC

Dec. 2022 “Quantitative MR in Multicenter Clinical Trials”, PPMD DDDR Meeting, Washington DC

June 2022 “Looking Ahead to Combination Therapies: Once you have Dystrophin, What is Next?” PPMD Annual Conference, Scottsdale, AZ

- June 2022 “Modeling MR Muscle Fat Fraction to Inform Clinical Trial Design in Duchenne”, PPMD Annual Conference, Scottsdale, AZ
- June 2022 “Development of Imaging Biomarkers for Becker Muscular Dystrophy”, PPMD Annual Conference, Scottsdale, AZ
- Nov. 2021 “Fit for Purpose Application to Develop a Clinical Trial Simulator Tool That Can Inform Data-driven, Simulations-based Decisions to Optimize Clinical Trial Design for DMD”, FDA Pre-submission Decision Meeting.
- Oct. 2021 “MR Imaging Biomarkers for Clinical Trials in BMD & LGMD”, GRASP Annual Meeting, Virginia Commonwealth
- Dec. 2020 “PPMD’s Biomarker Initiative: Levering Data for New Discoveries”, Webinar with Parent Project Muscular Dystrophy
- Sept. 2020 “The New Era of Gene Transfer Therapies and Application to Duchenne Muscular Dystrophy and Limb Girdle Muscular Dystrophies”, 25th International Congress of the World Muscle Society, Virtual Meeting.
- Feb. 2019 “The Role of Magnetic Resonance Imaging in the Pursuit of a treatment for Duchenne Muscular Dystrophy” University of Florida Faculty Senate, Gainesville, FL
- Dec. 2018 “Is Imaging Technology Sufficient to Provide Sensitive, Information and Predictive Data About Changes in Muscle Inflammation”, Parent Project Muscular Dystrophy, Inflammation in Duchenne: Current Treatments and New Treatment Strategies, Washington DC
- Nov. 2017 “MR Biomarkers in Duchenne Clinical Trials”, Imaging in Neuromuscular Disease 2017, Berlin, Germany
- Mar. 2017 “MR Imaging Biomarkers in Duchenne Muscular Dystrophy”, Advances in Skeletal Muscle Biology in Health and Disease Conference, Gainesville, FL

- July 2016 “MRI/MRS as a Biomarker for Duchenne Muscular Dystrophy”, New Directions in Biology and Disease of Skeletal Muscle Conference, Orlando, FL
- June 2016 “Clinical Trials in DMD: Role of qMR Imaging”, Parent Project Muscular Dystrophy Annual Connect Conference, Orlando, FL
- May 2016 “Biomarkers and Clinical Endpoints Across Different Stages of Disease Progression in DMD”, Justus F. Lehmann Symposium, Seattle, WA
- May 2016 “Clinical Trials in Duchenne Muscular Dystrophy: Role of MR Imaging”, Justus F. Lehmann Symposium, Seattle, WA
- Feb. 2016 “Upper Extremity MRI – What have we learned?” BioMarin Advisory Board Meeting, Novato, CA
- Nov. 2015 “Imaging Biomarkers for the Muscular Dystrophies”, Muscular Dystrophy Coordinating Committee (MDCC), NIH, Bethesda, MD
- Aug. 2015 “Imaging DMD” Child Health Research Center Seminar/2015 Myology Course, the Research Institute at Nationwide Children’s Hospital, Columbus, OH
- June 2013 “Natural History and MRI as a Biomarker”, Parent Project Muscular Dystrophy Annual Connect Conference, Baltimore, MD
- June 2013 “The Role of Exercise in the Development and Use of an In Vivo Imaging System for Dystrophic Boys”, ACSM Annual Meeting and World Congress on Exercise in Medicine, Indianapolis, IN
- June 2013 “Potential Role for Magnetic Resonance in Clinical Trials in DMD”, Department of Physiology Annual Retreat, University of Pennsylvania, PA

- Apr. 2013 “Imaging as a Biomarker in NMDs”, Muscular Dystrophy Association Meeting, Washington DC.
- Nov. 2012 “Skeletal Muscle MR endpoints in DMD”, UC Davis NIDRR State of the Science conference, Washington DC
- Sept. 2012 “MRI in DMD”, Muscle Study Group Meeting, Beaver Hollow, NY.
- June 2012 “Using MRI as a Biomarker for Duchenne”, Parent Project Muscular Dystrophy Annual Connect Conference, Ft. Lauderdale, FL.
- Mar. 2012 “MRI and Biomarkers for Muscular Dystrophy”, Parent Project Muscular Dystrophy; DuchenneConnect Webinar Series, March 14, 2012.
<http://community.parentprojectmd.org/video/imagingdmd-mri-study-webinar>
- Sept. 2011 “Multicenter MR Imaging Study in Muscular Dystrophy: Informatics Support”, Research Computing Day, University of Florida, Gainesville FL.
- Jan. 2011 “Translation to Clinical Studies in Muscular Dystrophies”, CTSI seminar series, University of Florida, Gainesville, FL.
- Sept. 2010 “Magnetic Resonance Imaging - Biomarker Development in DMD”. NIH/FDA Conference on Antisense Oligonucleotide Therapies in Neuromuscular Disease. Washington DC, District of Columbia.
- Sept. 2010 “How to Assess Muscle Quality in Boys with Duchenne Muscular Dystrophy”. Muscle Biology/Physiology Seminar Series, University of Florida, Gainesville, FL.
- Sept. 2010 “Duchenne Muscular Dystrophy at UF”. PPHP Advisory Board Meeting, University of Florida, Gainesville, FL.

- Apr. 2010 "Magnetic Resonance Assessment of Muscle Quality - Outcome Measures". Rehabilitation Outcomes Research Center, Gainesville FL.
- Aug. 2009 "Magnetic Resonance Assessment of Muscle Quality". APTA Research Retreat, Monterey, CA.
- Feb. 2009 "Funded Research and Early Career Development Opportunities (K12) for Faculty Members". APTA, Combined Sections Meeting, Las Vegas, NV.
- Sept. 2008 "Magnetic Resonance and Duchenne Muscular Dystrophy". Rehabilitation Research Seminars, Department of Physical Therapy, University of Florida, Gainesville, FL
- July 2008 "MR as a Surrogate Outcome Measure in Duchenne Muscular Dystrophy". PPMD Meeting, Philadelphia, PA.
- May 2008 "Translational Models in Muscle Rehabilitation". Keynote Speaker Research Day, Department of Physical Therapy, University of Maryland, Baltimore, MD
- Feb. 2008 "A Translational Approach to Study Disuse Atrophy and Muscle Plasticity". Rehabilitation Research Seminars, Department of Physical Therapy, University of Florida, Gainesville, FL
- Dec. 2007 "Magnetic Resonance Imaging of Muscular Dystrophy." Free Radical meeting, Department of Applied Physiology and Kinesiology, University of Florida, Gainesville, FL
- Dec. 2007 "Magnetic Resonance Imaging of Muscular Dystrophy". National Institute for Arthritis and Musculoskeletal diseases, NIH, Bethesda, Washington DC.
- Nov. 2007 "Magnetic Resonance Imaging and Muscle Rehabilitation" University of British Columbia, Vancouver, Canada.

- Aug. 2007 "Molecular Signatures Associated with Skeletal Muscle Disuse Atrophy in Humans", American College of Sports Medicine, National Conference, Denver, CO
- June 2007 "Translational Models in the Study of Skeletal Muscle Dysfunction". In memoriam Gary Dudley, key note speaker. American College of Sports Medicine. New Orleans, LA
- May 2007 "Muscle Plasticity after Spinal Cord Injury", Keynote Speaker Research Day, Department of Physical Therapy, University of Maryland, Baltimore, MD
- June 2006 Moderated Session: "New Frontiers on Rehabilitation Research." APTA, Annual Conference, Orlando, FL
- June 2006 "Molecular Signatures Associate with Skeletal Muscle Disuse in Humans.", American College of Sports Medicine, National Conference, Denver, CO
- Oct. 2005 "Magnetic Resonance Assessment of Muscle Function: The Future", American College of Sports Medicine Workshop, Vanderbilt University, Nashville, TN
- Jan. 2005 "Muscle Plasticity following incomplete SCI. ", First Annual Locomotor Recovery Retreat, Brooks Center, University of Florida, Gainesville, FL
- Jun. 2003 "Where does Physical Therapy fit in this era of genetics and genomics? What are the implications for practice, education, and research? ", American Physical Therapy Conference, Washington DC
- Apr. 2003 "Techniques and Tools to Assess Muscle Function.", RSD Research Seminar, University of Florida, Gainesville, FL
- Oct. 2002 "NIH-R01 grants: Practical tips.", College of Public Health and Health Professions, University of Florida, Gainesville, FL

- Mar. 2002 "Research Efforts to study Muscle Disuse from Pathophysiology to Impairment.", RSD Research Seminar, University of Florida, Gainesville, FL
- Jan. 2002 "Loss and Recovery of Muscle Function following Limb Disuse.", Highlighted Presentation, NIH-National Institute of Child Health and Human Development Advisory panel, Bethesda, Washington DC
- Dec. 2001 "Muscle Atrophy and Rehabilitative Interventions.", Exercise Science and Sports Medicine, University of Florida, Gainesville, FL
- Sept. 2001 "Muscle Dysfunction and Regeneration Following Limb Disuse.", NIH-NICHHD Advisory panel, Bethesda, Washington DC
- Feb. 2001 "Pathophysiology of muscle disuse.", Dept. of Physical Therapy, Washington University, St. Louis, MO
- Oct. 2000 "Muscle degeneration and regeneration following disuse.", Dept. of Physiology, University of Pennsylvania, Philadelphia, PA
- Oct. 2000 "Muscular atrophy and regeneration.", Biomedical Exercise Research Group, University of California Irvine, California
- Aug. 2000 "Muscular rehabilitation: A pathophysiological approach.", Moss Rehabilitation Institute, Philadelphia, PA
- May 2000 "Degeneration – Regeneration of Skeletal Muscle.", Dept. of Physical Medicine and Rehabilitation, Harvard Medical School, Boston, MA
- Feb. 1999 "The Evaluation of Skeletal Muscle Following Disuse: Cast Immobilization As A Model." Eugene Michels Researcher's Forum, Seattle, WA

- Feb. 1998 "Magnetic Resonance Imaging and Spectroscopy of Skeletal Muscle.", University of Delaware, Delaware
- Feb. 1997 "Magnetic Resonance Spectroscopy." Beaver College, Pennsylvania
- Sept. 1996 "Effects of Surgery and Cast Immobilization on Muscle Metabolism and Function.", European Society for Magnetic Resonance in Medicine and Biology, Tsjeche, Prague Republic
- Apr. 1996 "Restoration of Muscle Function during Rehabilitation. ", National Center for Medical Rehabilitation Research, NIH, Bethesda, MD
- Jan. 1996 "Evaluation of Skeletal Muscle in Persian Gulf Veterans. ", New Jersey Medical School, East Orange, NJ
- Jan. 1996 "Evaluation of Skeletal Muscle in Persian Gulf Veterans. ", New Jersey Medical School, East Orange, NJ
- Nov. 1995 "Skeletal Muscle in Persian Gulf Veterans. ", World Congress on Chronic Fatigue Syndrome, Brussels, Belgium
- June 1994 "In Vivo Metabolic and Contractile Properties of Single Human Skeletal Muscles. ", Joint Workshop: Magnetic Resonance Imaging and Spectroscopy of Muscle, Liverpool, England
- Apr. 1994 "Localized Spectroscopy of Skeletal Muscle. ", VA Medical Center, San Francisco, CA
- Apr. 1994 "Spatial Localization of Skeletal Muscle during Exercise.", In Vivo Magnetic Resonance Spectroscopy Symposium: An Advanced Participation Workshop, California
- Apr. 1993 "Phosphate Content in Fast and Slow Twitch Muscles.", Belgian Sports Medicine and Sports Science Conference, Belgium

- Sept. 1992 "Energy Rich Phosphates in Muscles with a Different Fiber Type Mixture using Localized NMR Spectroscopy.", American College of Sports Medicine Conference, Dallas, TX
- Sept. 1991 "Multiple pH Values in Individual Muscles.", Biochemistry of Exercise Conference, Japan
- Sept. 1991 "Muscle Metabolism in the Medial and Lateral Gastrocnemius Using a Simple Localization Procedure.", Biochemistry of Exercise Conference, Japan
- May 1991 "An Approach to Fiber Typing in Athletes and Non-athletes Using 31P-MRS.", American College of Sports Medicine Conference, Orlando, FL
- Oct. 1990 "New Horizons in Medical Magnetic Resonance." PRIMIS Symposium, Belgium
 Mar. 1991 "Non-Invasive Detection of Muscle Fiber Types - a Tool for Event Selection in the Future?", International Symposium On: Running Science, Belgium
- Sept. 1990 "Non-Invasive Detection of Muscle Fiber Types in Man." Colloque Fatigue Musculaire, Cretail, France

Bibliography:

Research Publications, peer reviewed:

* *underlined name Indicates joint first authorship*

***Indicates graduate student mentored by Dr. Vandeborne*

Accepted (7/24/2023): S. Kim, R. Willcocks, M. Daniels, J. Francisco Morales, D. Yoon, W. Triplett, A. Barnard, D. Conrado, V. Aggarwal, R. Belfiore-Oshan, T. Martinez, G. Walter, W. Rooney, and K. Vandeborne. Multivariate modeling of magnetic resonance biomarkers and clinical outcome measures for Duchenne muscular dystrophy clinical trials. CPT: Pharmacometrics & Systems Pharmacology. Paper #PSP-2023-0060R1

Accepted (1/9/2023): G. Pietro Comi, E. Niks, **K. Vandenborne**, C. Cinnante, H. E. Kan, R. Willcocks, D. Velardo, F. Magri, M. Ripolone, J. van Benthem, N. van de Velde, S. Nava, L. Ambrosoli, S. Cazzaniga, P. Bettica. Givinostat for Becker Muscular Dystrophy: A Randomized, Placebo-Controlled, Double Blind Study. *J. Frontiers in Neurology*. Manuscript ID: 1095121

Comi GP, Niks EH, **Vandenborne K**, Cinnante CM, Kan HE, Willcocks RJ, Velardo D, Magri F, Ripolone M, van Benthem JJ, van de Velde NM, Nava S, Ambrosoli L, Cazzaniga S, Bettica PU. Givinostat for Becker muscular dystrophy: A randomized, placebo-controlled, double-blind study. *Front Neurol*. 2023 Jan 30;14:1095121. doi: 10.3389/fneur.2023.1095121. PMID: 36793492; PMCID: PMC9923355.

Barnard AM, Hammers DW, Triplett WT, Kim S, Forbes SC, Willcocks RJ, Daniels MJ, Senesac CR, Lott DJ, Arpan I, Rooney WD, Wang RT, Nelson SF, Sweeney HL, **Vandenborne K**, Walter GA. Evaluating Genetic Modifiers of Duchenne Muscular Dystrophy Disease Progression Using Modeling and MRI. *Neurology*. 2022 Nov 22;99(21):e2406-e2416. doi: 10.1212/WNL.0000000000201163. Epub 2022 Sep 2. PMID: 36240102; PMCID: PMC9687406.

Nair KS, Lott DJ, Forbes SC, Barnard AM, Willcocks RJ, Senesac CR, Daniels MJ, Harrington AT, Tennekoon GI, Zilke K, Finanger EL, Finkel RS, Rooney WD, Walter GA, **Vandenborne K**. Step Activity Monitoring in Boys with Duchenne Muscular Dystrophy and its Correlation with Magnetic Resonance Measures and Functional Performance. *J Neuromuscul Dis*. 2022;9(3):423-436. doi: 10.3233/JND-210746. PMID: 35466946; PMCID: PMC9257666.

Batra A, Barnard AM, Lott DJ, Willcocks RJ, Forbes SC, Chakraborty S, Daniels MJ, Arbogast J, Triplett W, Henricson EK, Dayan JG, Schmalfluss C, Sweeney L, Byrne BJ, McDonald CM, **Vandenborne K**, Walter GA. Longitudinal changes in cardiac function in Duchenne muscular dystrophy population as measured by magnetic resonance imaging. *BMC Cardiovasc Disord*. 2022 Jun 9;22(1):260. doi: 10.1186/s12872-022-02688-5. PMID: 35681116; PMCID: PMC9185987.

Willcocks RJ, Barnard AM, Wortman RJ, Senesac CR, Lott DJ, Harrington AT, Zilke KL, Forbes SC, Rooney WD, Wang DJ, Finanger EL, Tennekoon GI, Daniels MJ, Triplett WT, Walter GA, **Vandenborne K**. Development of Contractures in DMD in Relation to MRI-Determined Muscle Quality and Ambulatory Function. *J Neuromuscul Dis*. 2022;9(2):289-302. doi: 10.3233/JND-210731. PMID: 35124659; PMCID: PMC9257436.

Comi GP, Niks EH, Cinnante CM, Kan HE, Vandenborne K, Willcocks RJ, Velardo D, Ripolone M, van Benthem JJ, van de Velde NM, Nava S, Ambrosoli L, Cazzaniga S, Bettica PU. Characterization of patients with Becker muscular dystrophy by histology, magnetic resonance imaging, function, and strength assessments. *Muscle Nerve*. 2022 Mar;65(3):326-333. doi: 10.1002/mus.27475. Epub 2021 Dec 30. PMID: 34918368; PMCID: PMC9302983.

Barnard AM, Lott DJ, Batra A, Triplett WT, Willcocks RJ, Forbes SC, Rooney WD, Daniels MJ, Smith BK, **Vandenborne K**, Walter GA. Characterizing Expiratory Respiratory Muscle Degeneration in Duchenne Muscular Dystrophy Using MRI. *Chest*. 2022 Mar;161(3):753-763. doi: 10.1016/j.chest.2021.08.078. Epub 2021 Sep 15. PMID: 34536384; PMCID: PMC9160975.

Finkel RS, Finanger E, **Vandenborne K**, Sweeney HL, Tennekoon G, Shieh PB, Willcocks R, Walter G, Rooney WD, Forbes SC, Triplett WT, Yum SW, Mancini M, MacDougall J, Fretzen A, Bista P, Nichols A, Donovan JM. Disease-modifying effects of edasalonexent, an NF- κ B inhibitor, in young boys with Duchenne muscular dystrophy: Results of the MoveDMD phase 2 and open label extension trial. *Neuromuscul Disord*. 2021 May;31 (5):385-396. doi: 10.1016/j.nmd.2021.02.001. Epub 2021 Feb 4. PMID: 33678513.

Lott DJ, Taivassalo T, Cooke KD, Park H, Moslemi Z, Batra A, Forbes SC, Byrne BJ, Walter GA, **Vandenborne K**. Safety, feasibility, and efficacy of strengthening exercise in Duchenne muscular dystrophy. *Muscle Nerve*. 2021 Mar;63(3):320-326. doi: 10.1002/mus.27137. Epub 2020 Dec 22. PMID: 33295018; PMCID: PMC9254904.

Willcocks RJ, Forbes SC, Walter GA, Sweeney L, Rodino-Klapac LR, Mendell JR, **Vandenborne K**. Assessment of rAAVrh.74.MHCK7.micro-dystrophin Gene Therapy Using Magnetic Resonance Imaging in Children With Duchenne Muscular Dystrophy. *JAMA Netw Open*. 2021 Jan 4; 4(1):e2031851. doi: 10.1001/jamanetworkopen.2020.31851. PMID: 33394000; PMCID: PMC7783546.

Lott DJ, Taivassalo T, Senesac CR, Willcocks RJ, Harrington AM, Zilke K, Cunkle H, Powers C, Finanger EL, Rooney WD, Tennekoon GI, **Vandenborne K**. Walking activity in a large cohort of boys with Duchenne muscular dystrophy. *Muscle Nerve*. 2020 Nov 14. doi: 10.1002/mus.27119. Epub ahead of print. PMID: 33188573.

Senesac CR, Barnard AM, Lott DJ, Nair KS, Harrington AT, Willcocks RJ, Zilke KL, Rooney WD, Walter GA, **Vandenborne K**. Magnetic Resonance Imaging Studies in Duchenne Muscular Dystrophy: Linking Findings to the Physical Therapy Clinic. *Phys Ther*. 2020 Oct 30;100(11):2035-2048. doi: 10.1093/ptj/pzaa140. PMID: 32737968; PMCID: PMC7596892.

Batra A, Lott DJ, Willcocks R, Forbes SC, Triplett W, Dastgir J, Yun P, Reghan Foley A, Bönnemann CG, **Vandenborne K**, Walter GA. Lower Extremity Muscle Involvement in the Intermediate and Bethlem Myopathy Forms of COL6-Related Dystrophy and Duchenne Muscular Dystrophy: A Cross-Sectional Study. *J Neuromuscul Dis*. 2020 Sept 18; 7(4):407-417. doi: 10.3233/JND-190457. PMID: 32538860.

Goemans N, Signorovitch J, Sajeev G, Yao Z, Gordish-Dressman H, McDonald CM, **Vandenborne K**, Miller D, Ward SJ, Mercuri E; investigators from PRO-DMD-01 Study, CINRG DNHS, ImagingDMD, and the DMD Italian Group. Suitability of external controls for drug evaluation in Duchenne muscular dystrophy. *Neurology*. 2020 Sep 8;95(10):e1381-e1391. doi: 10.1212/WNL.000000000010170. Epub 2020 Jul 1. PMID: 32611643; PMCID: PMC7538219.

Arora H*, Willcocks RJ, Lott DJ, Harrington AT, Senesac CR, Zilke KL Daniels M Tennekoon G, Finanger E, Russman B; Finkel, RS Triplett, WT, Byrne B, Walter GA **Vandenborne K**. Longitudinal timed function tests in Duchenne muscular dystrophy: ImagingDMD cohort natural history. *Muscle Nerve* 2018 May 9. doi: 10.1002/mus.26161. [Epub ahead of print] PubMed PMID: 29742798.

Batra A, Harington A, Lott DJ, Willcocks RJ, Senesac C, Danadan Xu, Mathur S, Daniels M, Rooney WD, Forbes SC, Triplett WT, Deol JK, Arpan I, Bendixen R, Finkel RS, Finanger E, Tennekoon G, Byrne BJ, Russman B, Sweeney HL, Walter GA, **Vandenborne K**. Two year longitudinal changes in strength and its relation to Functional ability in a large cohort of children with Duchenne Muscular Dystrophy. *American Journal of Physical Medicine & Rehabilitation* 2018 May 2. doi: 10.1097/PHM.0000000000000957.

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 Mar 19;13(3):e0194283. doi:10.1371/journal.pone.0194283. eCollection 2018. PubMed PMID: 29554116.

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 Jan 24. doi: 10.1002/mus.26081. [Epub ahead of print] PubMed PMID: 29365354.

Chrzanowski SM, Baligand C, Willcocks RJ, Deol J, Schmalfuss I, Lott DJ, Daniels MJ Senesac C, Walter GA, **Vandenborne K**. Multi-slice MRI reveals heterogeneity in disease distribution along the length of muscle in Duchenne muscular dystrophy. *Acta Myol*. 2017 Sep 1;36(3):151-162. eCollection 2017 Sep. PubMed PMID: 29774305; PubMed Central PMCID: PMC5953226.

Victor RG, Sweeney HL, Finkel R, McDonald CM, Byrne B, Eagle M, Goemans N, **Vandenborne K**, Dubrovsky AL, Topaloglu H, Miceli MC, Furlong P, Landry J, Elashoff R, Cox D; Tadalafil DMD Study Group. A phase 3 randomized placebo controlled trial of tadalafil for Duchenne muscular dystrophy. *Neurology*. 2017 Oct 24;89(17):1811-1820. doi:10.1212/WNL.0000000000004570. Epub 2017 Sep 29. PubMed PMID: 28972192; PubMed Central PMCID: PMC5664308.

Chrzanowski SM, Vohra RS, Lee-McMullen BA, Batra A, Spradlin RA, Morales J, Forbes S, **Vandenborne K**, Barton ER, Walter GA. Contrast-Enhanced Near-Infrared Optical Imaging Detects Exacerbation and Amelioration of Murine Muscular Dystrophy. *Mol Imaging*. 2017 Jan-Dec;16:1536012117732439. doi: 10.1177/1536012117732439. PMID: 29271299; PMCID: PMC5985549.

Vohra R**, Batra A*, Forbes SC***, **Vandenborne K**, Walter GA. Magnetic Resonance Monitoring of Disease Progression in mdx Mice on Different Genetic Backgrounds. *Am J Pathol*. 2017 Sep;187(9):2060-2070. doi: 10.1016/j.ajpath.2017.05.010. PubMed PMID: 28826559; PubMed Central PMCID: PMC5809503.

Chen YW, Gregory C, Ye F, Harafuji N, Lott D, Lai SH, Mathur S, Scarborough M, Gibbs P, Baligand C, **Vandenborne K**. Molecular signatures of differential responses to exercise trainings during rehabilitation. *Biomed Genet Genom*. 2017;2(1). doi: 10.15761/BGG.1000127. Epub 2017 Apr 10. PubMed PMID: 28845464; PubMed Central PMCID: PMC5568829.

Chrzanowski SM, Vohra RS**, Lee-McMullen BA, Batra A, Spradlin RA, Morales J, Forbes S, **Vandenborne K**, Barton ER, Walter GA. Contrast-Enhanced Near-Infrared Optical Imaging Detects Exacerbation and Amelioration of Murine Muscular Dystrophy. *Mol Imaging*. 2017 Jan- Dec;16:1536012117732439. doi: 10.1177/1536012117732439. PubMed PMID: 29271299.

Chrzanowski SM*, Batra A*, Lee-McMullen B*, Vohra RS**, Forbes SC***, Jiang H, **Vandenborne K**, Walter GA. Near-Infrared Optical Imaging Noninvasively Detects Acutely Damaged Muscle. *Am J Pathol*. 2016 Oct; 186(10):2692-700. doi:10.1016/j.ajpath.2016.06.019. Epub 2016 Aug 24. PubMed PMID: 27565039; Central PMCID: PMC5222978.

Willcocks RJ, Triplett WT, Forbes SC, Arora H*, Senesac CR, Lott DJ, Nicholson TR, Rooney WD, Walter GA, **Vandenborne K**. Magnetic resonance imaging of the proximal upper extremity musculature in boys with Duchenne muscular dystrophy. *J Neurol*. 2017 Jan; 264(1):64-71. doi: 10.1007/s00415-016-8311-0. Epub 2016 Oct 24. PubMed PMID: 27778157

Larkindale J, Abresch R, Aviles E, Bronson A, Chin J, Furlong P, Gordish-Dressman H, Habeeb-Louks E, Henricson E, Kroger H, Lynn C, Lynn S, Martin D, Nuckolls G, Rooney W, Romero K, Sweeney L, **Vandenborne K**, Walter G, Wolff J, Wong B, McDonald CM, Duchenne Regulatory Science Consortium Imaging-Dmd Consortium And The Cinrg Investigators MO. Duchenne Regulatory Science Consortium Meeting on Disease Progression Modeling for Duchenne Muscular Dystrophy. *PLoS Curr*. 2017 Jan 12;9. PubMed PMID: 28228973; PubMed Central PMCID: PMC5300692

Lee CH, Bengtsson N, Chrzanowski SM, Flint JJ, Walter GA, Blackband SJ. Magnetic Resonance Microscopy (MRM) of Single Mammalian Myofibers and Myonuclei. *Sci Rep*. 2017 Jan 3;7:39496. doi: 10.1038/srep39496. PubMed PMID: 28045071; PubMed Central PMCID: PMC5206738.

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, **Vandenborne K**. Multicenter prospective longitudinal study of magnetic resonance biomarkers in a large duchenne muscular dystrophy cohort. *Ann Neurol*. 2016 Apr; 79(4):535-47. doi: 10.1002/ana.24599. Epub 2016 Feb 19. PubMed PMID: 26891991 (Cover article)

Forbes SC, Willcocks RJ, Rooney WD, Walter GA, **Vandenborne K**. MRI quantifies Neuromuscular disease progression. *Lancet Neurol*. 2016 Jan; 15(1):26-8. Doi: 10.1016/S1474-4422(15)00320-8. Epub 2015 Nov 6. PubMed PMID: 26549781

Baligand C, Chen YW, Ye F, Pandey SN, Lai SH, Liu M, **Vandenborne K**. Transcriptional Pathways Associated with Skeletal Muscle Changes after Spinal Cord Injury and Treadmill Locomotor Training. *Biomed Res Int*. 2015; 2015:387090. doi: 10.1155/2015/387090. Epub 2015 Aug 24. PubMed PMID: 26380273

Vohra RS**, Lott D, Mathur S, Senesac C, Deol J, Germain S, Bendixen R**, Forbes SC, Sweeney HL, Walter GA, **Vandenborne 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: 0.1371/journal.pone.0128915. eCollection 2015. PubMed PMID: 26103164

Vohra RS**, Mathur S, Bryant ND, Forbes SC, **Vandenborne K**, Walter GA. Age related T2 changes in hindlimb muscles of mdx mice. *Muscle Nerve*. 2016 Jan; 53(1):84-90. doi: 10.1002/mus.24675. Epub 2015 Jul 14. PubMed PMID: 25846867

Senesac CR, Lott DJ, Forbes SC, Mathur S, Arpan I, Senesac ES, Walter GA, **Vandenborne K**. Longitudinal Evaluation of Muscle Composition Using Magnetic Resonance in 4 Boys With Duchenne Muscular Dystrophy: Case Series. *Phys Ther*. 2015 Jul; 95(7):978-88. doi: 10.2522/ptj.20140234. Epub 2015 Jan 15. PubMed PMID: 25592189

Smith BK, Mathur S, Ye F, Martin A, Truelson SA, **Vandenborne K**, Davenport PW. Intrinsic transient tracheal occlusion training and myogenic remodeling of rodent parasternal intercostal fibers. *J Rehabil Res Dev*. 2014; 51(5):841-54. PubMed PMID: 25509059

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, **Vandenborne 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. Erratum in: PLoS One. 2014; 9(10):e111822. PubMed PMID: 25203313

Yarrow JF, Ye F, Balaez A, Mantione JM, Otzel DM, Chen C, Beggs LA, Baligand C**, Keener JE, Lim W**, Vohra RS**, Batra A*, Borst SE, Bose PK, Thompson FJ, **Vandenborne K**. Bone loss in a new rodent model combining spinal cord injury and cast immobilization. J Musculoskelet Neuronal Interact. 2014 Sep; 14(3):255-66. PMID: 25198220

Clendinen CS, Lee-McMullen B*, Williams CM, Stupp GS, **Vandenborne K**, Hahn DA, Walter GA, Edison AS. ¹³C NMR metabolomics: applications at natural abundance. Anal Chem. 2014 Sep 16; 86(18):9242-50. doi: 10.1021/ac502346h. Epub 2014 Aug 29. PubMed PMID: 25140385

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, **Vandenborne 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. PMID: 25098537

Hsieh CJ, Indelicato PA, Moser MW, **Vandenborne K**, Chmielewski TL. Speed, not magnitude, of knee extensor torque production is associated with self-reported knee function early after anterior cruciate ligament reconstruction. Knee Surg Sports Traumatol Arthrosc. 2014 Jul 16. [Epub ahead of print] PMID: 25026933

Lott DJ, Forbes SC, Mathur S, Germain SA, Senesac CS, Sweeney HL, Walter GA, **Vandenborne K**. Assessment of intramuscular lipid and metabolites of the lower leg using magnetic resonance spectroscopy in boys with Duchenne muscular dystrophy. Neuromuscul Disord. 2014 Jul; 24(7):574- 82. Epub 2014 Apr 13. PMID: 24798221

Forbes SC, Bish LT, Ye F, Spinazzola J, Baligand C**, Plant D, **Vandenborne K**, Barton ER, Sweeney HL, Walter GA. Gene transfer of arginine kinase to skeletal muscle Using adeno-associated virus. *Gene Ther.* 2014 Apr; 21(4):387-92. doi: 10.1038/gt.2014.9. Epub 2014 Feb 27. PubMed PMID: 24572791; PubMed Central PMCID: PMC3975678

Bendixen RM**, Lott DJ, Senesac C, Mathur S, **Vandenborne 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. PubMed 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, **Vandenborne 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. PubMed PMID: 24491484

Shah PK, Ye F, Liu M, Jayaraman A, Baligand C**, Walter GA, **Vandenborne K**. In vivo ³¹P NMR spectroscopy assessment of skeletal muscle bioenergetics after spinal cord contusion in rats. *Eur J Appl Physiol.* 2014 Apr; 114(4):847-58. PMID: 24399112

Willcocks RJ**, Arpan IA*, Forbes SF, Lott DJ, Senesac CS, Senesac E, Deol J, Triplett W, Baligand C**, Daniels MJ, Sweeney HL, Walter GA, **Vandenborne K**. Longitudinal measurements of MRI-T2 in boys with Duchenne muscular dystrophy: Effects of age and disease progression. *Neuromuscular Disorders.* 2014 May; 24(5):393-401. Epub 2014 Jan 11. PMID: 24491484

Forbes SC, Bish LT, Barton ER, Ye F, Baligand C**, Plant D, **Vandenborne K**, Sweeney HL, and Walter GA. Gene transfer of arginine kinase to skeletal muscle using Adeno associated virus. *Gene Therapy.* 2014 Apr; 21(4):387-92. Epub 2014 Feb 27. PMID: 24572791

Triplett WT, Baligand CB**, Forbes SC, Willcocks RJ**, Lott DJ, DeVos S, Pollaro J, Rooney WD, Sweeney HL, Bönnemann C, **Vandenborne K**, Walter GA. Chemical shift based MRI to measure fat fractions in dystrophic skeletal muscle. *Magnetic Resonance in Medicine*. 2014 Jul; 72(1):8-19. PMID: 24006208

Forbes SC, Walter GA, Rooney WD, Wang DJ, DeVos S, Pollaro J, Triplett W, Lott DJ, Willcocks RJ**, Senesac C, Daniels MJ, Byrne B, Russman B, Finkel R, Meyer MD, Sweeney HL, **Vandenborne K**. Design of a Multi-center MRI/MRS Study to Evaluate Skeletal Muscles of Ambulant Children with Duchenne Muscular Dystrophy. *Radiology*. 2013 Oct; 269(1):198-207. PMID: 23696684

Manini TM, Buford TW, Lott DJ, **Vandenborne 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. PubMed PMID: 23682155

Wang J, Fan Z, **Vandenborne K**, Walter G, Shiloh-Malawsky Y, An H, Kornegay JN, Styner MA. A Computerized MRI biomarker quantification scheme for a canine model of Duchenne muscular dystrophy. *Int J Comput Assist Radiol Surg*. 2013 Sept; 8(5):765-74. PubMed PMID: 23299128

Ye F, Mathur S, Liu M, Borst SE, Walter GA, Sweeney HL, **Vandenborne K**. Overexpression of IGF-1 attenuates skeletal muscle damage and accelerates muscle regeneration and functional recovery after disuse. *Exp Physiol*. 2013 May; 98(5):1038-52. Epub 2013 Jan 4. PubMed PMID: 23291913

Ye F, Baligand C**, Keener JE, Vohra RS**, Lim W**, Ruhella A, Bose P, Daniels M, Walter GA, Thompson FJ Phd, **Vandenborne K**. Hindlimb muscle morphology and function in a new atrophy model combining spinal cord injury and cast immobilization. *J Neurotrauma*. 2013 Feb 1; 30(3):227-35. Epub 2013 Jan 22. PMID: 22985272

Arpan I*, Forbes SC, Lott DJ, Senesac C, Daniels MJ, Triplett W, Deol J, Schmalfuss I, Walter GA, **Vandenborne K**. T2 mapping provides multiple approaches to characterize 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. Epub 2012 Oct 9. PMID: 23044995

Smith BK, Martin AD, **Vandenborne K**, Darragh BD, Davenport PW. Chronic intrinsic transient tracheal occlusion elicits diaphragmatic muscle fiber remodeling in conscious rodents. *PLoS One*. 2012; 7(11):e49264. Epub 2012 Nov 1. PMID: 23133678

Forbes SC, Lott DJ, Finkel RS, Senesac C, Byrne BJ, Sweeney HL, Walter GA, **Vandenborne K**. MRI/MRS Evaluation of a Female Carrier of Duchenne Muscular Dystrophy. *Neuromuscular Disorders*. *Neuromuscul Disord*. 2012 Oct 1; 22 Suppl 2:S111-21

Jayaraman A, Liu M, Ye F, Walter GA, **Vandenborne K**. Regenerative responses in slow- and fast-twitch muscles following moderate contusion spinal cord injury and locomotor training. *Eur J Appl Physiol*. *Eur J Appl Physiol*. 2013 Jan; 113(1):191-200. Epub 2012 May 29. PMID: 22644570

Bendixen R**, Senesac C, Lott DJ, **Vandenborne K**. Participation and Quality of Life in children with Duchenne muscular dystrophy using the International Classification of Functioning, Disability, and Health. *Health and Quality of Life Outcomes*. 2012 May 22; 10(1):43. PMID: 22545870

Marzetti, E, Lees HA, Manini TM, Buford TW, Aranda JM, Calvani R, Capuani G, Marsiske M, Lott DJ, **Vandenborne 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. *PLoS ONE*. 2012; 7(2): e32829. Epub 2012 Feb 28. PMID 22389725

Finanger E, Russman B, Forbes S**, Rooney W, Walter GA, **Vandenborne K**. Use of skeletal muscle MRI in diagnosis and monitoring disease progression in Duchenne Muscular Dystrophy. *Physical Medicine & Rehabilitation Clinics of North America*. *Phys Med Rehabil Clin N Am*. 2012 Feb; 23(1):1- 10. Epub 2011 Dec 14. PMID 22239869

Bish, LT, Sleeper MM, Forbes SC**, Wang B, Reynolds C, Singletary GE, Trafny D, Morine KJ, Sanmiguel J, Cecchini S, Viraq T, Vulin A, Beley C, Bogan, J, Wilson JM, **Vandenborne K**, Kornegay JN, Walter GA, Kotin RM, Garcia L, Sweeney HL. Long term restoration of cardiac dystrophin expression in golden retriever muscular dystrophy following rAAV6-mediated exon skipping. *Mol Ther*. 2012 Mar; 20(3):580-9. Epub 2011 Dec 6. PMID: 22146342

Buford TW, Lott DJ, Marzetti M, Wohlgemuth SE, **Vandenborne K**, Pahor M, Leeuwenburgh C, Manini TM. Age-related Differences in Lower Extremity Tissue Compartments and Associations with Physical Function in Older Adults. *Experimental Gerontology*. 2012 Jan; 47(1):38-44. Epub 2011 Oct 12. PMID: 22015325.

Akima, H, Lott D, Senesac S, Deol J, Germain S, Arpan I*, Bendixen R**, Sweeney HL, Walter G, **Vandenborne K**. Relationships of thigh muscle contractile and non-contractile tissue with function, strength, and age in boys with Duchenne muscular dystrophy. *Neuromuscular Disorders*. 2012 Jan; 22(1):16-25. Epub 2011 Jul 30. PMID: 21807516

Bish LT, Sleeper MM, Forbes SC**, Morine K, Reynolds C, Singletary GE, Trafny D, Pham J, Bogan J, Kornegay JN, **Vandenborne K**, Walter GA, Sweeney HL. Long-term systemic myostatin inhibition via liver-targeted gene transfer in Golden Retriever Muscular Dystrophy. *Hum Gene Ther*. 2011 Dec; 22(12):1499-509. Epub 2011 Aug 30. PMID: 21787232

Mathur S, Vohra RS*, Germain SA, Forbes SC**, Bryant ND, **Vandenborne K**, Walter GA. Changes in muscle T2 and tissue damage following downhill running in mdx mice. *Muscle Nerve*. 2011 Jun; 43(6):878-86. Epub 2011 Apr 12. PMID: 21488051

Stevens-Lapsley JE, Ye F**, Liu M**, Borst SE, Conover CF, Yarasheski KE, Walter GA, Sweeney HL, **Vandenborne K**. Impact of viral mediated IGF-I gene transfer on skeletal muscle following cast immobilization. *Am J Physiol Endocrinol Metab*. 2010 Nov; 299(5):E730-40. Epub 2010 Aug 24. PubMed PMID: 20739512; PubMed Central PMCID: PMC2980362

Mathur S, Lott DJ, Senesac C, Vohra R*, Germain SA, Sweeney HL, Walter GA, **Vandenborne K**. Age-related differences in lower limb muscle cross sectional area and torque production in boys with Duchenne muscular dystrophy. *Arch Phys Med Rehabil*, July 2010; 91(7):1051-58. PMID: 20599043

Liu M**, Stevens-Lapsley JE, Jayaraman A, Ye F**, Conover C, Walter GA, Bose P, Thompson FJ, Borst SE, **Vandenborne K**. Impact of treadmill locomotor training on skeletal muscle IGF1 and myogenic regulatory factors in spinal cord injured rats. *Eur J Appl Physiol*. 2010 Jul; 109(4):709-20. Epub 2010 Mar 7. PMID: 20213470

Ifeld BM, Ball ST, Gearen PF, Mariano ER, Le LT, **Vandenborne K**, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, Maldonado RC, Meyer RS. Health-related quality of life after hip arthroplasty with and without an extended-duration continuous posterior lumbar plexus nerve block: a prospective, 1-year follow-up of a randomized, triple masked, placebo-controlled study. *Anesth Analg*. 2009 Aug; 109(2):586-91. PMID: 19608835

Kramerova I, Kudryashova E, Wu B, Germain S, **Vandenborne K**, Romain N, Haller R, Verity MA, Spencer MJ. Mitochondrial abnormalities, energy deficit and oxidative stress are features of calpain 3 deficiency in skeletal muscle. *Human Molecular Genetics*, 2009 Sep 1; 18(17):3194-205. Epub 2009 May 29. PMID: 19483197

Ifeld BM, Meyer RS, Le LT, Mariano ER, Williams BA, **Vandenborne K**, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, Madonado RC, Gearen PF. Health-related quality of life after tricompartiment knee arthroplasty with and without an extended-duration continuous femoral nerve block: a prospective, 1-year follow-up of a randomized, triple masked, placebo-controlled study. *Anesth Analg*. 2009 Apr; 108(4):1320-5. PMID: 19299806

Ifeld BM, Ball ST, Gearen PF, Le LT, Mariano ER, **Vandenborne K**, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, Theriaque DW, Meyer RS. Ambulatory continuous posterior lumbar plexus nerve blocks following hip arthroplasty: a dual-center, randomized, triple-masked, placebo-controlled trial. *Anesthesiology*, 2008 Sep; 109(3):491-501. PMID: 18719448

Jayaraman A*, Shah P*, Gregory CM, Stevens JE, Bowden M, Walter GA, Behrman A, **Vandenborne K**. Locomotor Training and muscle function after Incomplete Spinal Cord Injury: A Case Series. *J Spinal Cord Med*. 2008; 31(2):185-93. PMID: 18581666

Ifeld BM, Le LT, Meyer RS, Mariano ER, **Vandenborne K**, Duncan PW, Sessler DI, Enneking FK, Shuster JJ, Theriaque DW, Berry LF, Spadoni EH, Gearen PF. Ambulatory continuous femoral nerve blocks decrease time to discharge readiness after tricompartment total knee arthroplasty: a randomized, triple-masked, placebo controlled study. *Anesthesiology*. 2008 Apr; 108(4):703-13. PMID: 18362603

Shah P*, Gregory C, Stevens J, Pathare N, Jayaraman A*, Behrman A, Walter G, and **K Vandenborne**. Noninvasive assessment of Lower Extremity Muscle Composition after Incomplete Spinal Cord Injury. *Spinal Cord*. 2008 Aug; 46(8):565-70. Epub 2008 Mar 18. PMID: 18347608

Liu M**, Bose B, Walter GA, Thompson F, **Vandenborne K**. A longitudinal study of skeletal muscle following spinal cord injury and locomotor training. *Spinal Cord*. 2008 Jul; 46(7):488-93. Epub 2008 Feb 19. PMID: 18283294

Pathare N, **Vandenborne K**, Liu M**, Stevens JE, Li Y, Frimel TN, Walter GA. Alterations in Inorganic Phosphate in Mouse Hindlimb Muscles During Limb Disuse. *NMR Biomed*. 2008 Feb; 21(2):101-110. PMID: 17516466

Chen YW, Gregory CM, Scarborough MT, Shi R, Walter GA, **Vandenborne K**. Transcriptional Pathways Associated with Skeletal Muscle Disuse Atrophy in Humans. *Physiol Genomics*. 2007 Nov 14;31(3):510-20. Epub 2007 Sep 5. PMID: 17804603

Borst SE, Conover CF, Carter CS, Gregory CM, Marzetti E, Leeuwenburgh C, **Vandenborne K**, Wronski TJ. Anabolic Effects of Testosterone Are Preserved during Inhibition of 5 α -Reductase. *Am J Physiol Endocrinol Metab*. 2007 Aug; 293(2):E507-14. Epub 2007 May 8. PMID: 17488806

Gregory CM, Bowden MG, Jayaraman A*, Shah P*, Behrman A, Kautz SA, **Vandenborne K**. Resistance training and locomotor recovery after incomplete spinal cord injury: a case series. *Spinal Cord*. 2007 Jul; 45(7):522-30. Epub 2007 Jan 16. PMID: 17228358

Liu M*, Walter GA, Pathare NC, Forster RE, **Vandenborne K**. A quantitative study of bioenergetics in skeletal muscle lacking carbonic anhydrase III using ³¹P magnetic resonance spectroscopy. *Proc Natl Acad Sci U S A*. 2007 Jan 2; 104(1):371-6. Epub 2006 Dec 20. PMID: 17182736

Stevens JE, Liu M*, Bose P, O'Steen WA, Thompson FJ, Anderson DK, **Vandenborne K**. Changes in Soleus Muscle Function and Fiber Morphology with One Week of Locomotor Training in Spinal Cord Contusion Injured Rats. *J. Neurotrauma*, 2006 Nov 23 ;(11)1671-81. Erratum in: *J Neurotrauma*. 2008 May; 25(5):567. PMID: 17115912

Ilfeld BM, **Vandenborne K**, Duncan PW, Sessler DI, Enneking K, Shuster J, Theriaque DW, Chmielewski TL**, Spadoni EH, Wright TW. Ambulatory Continuous Interscalene Nerve Blocks Decrease the Time to Discharge-readiness following Total Shoulder Arthroplasty: A Randomized, Triple-masked, Placebo-controlled Stud. *Anesthesiology*. 2006 Nov; 105(5): 999-1007. PMID: 17065895

Chen YW, Gregory CM, Scarborough MT, Shi R, Walter GA, **Vandenborne K**. Transcriptional Pathways Associated with Skeletal Muscle Disuse Atrophy in Humans. *Physiol Genomics*. 2007 Nov 14; 31(3):510-20

Pathare NC*, Stevens JE, Walter, GA, Shah P*, · Jayaraman A*, Tillman SM, Scarborough MT, Gibbs CP, **Vandenborne K**. Deficit in Human Muscle Strength with Cast Immobilization: Contribution of Inorganic Phosphate. *Eur. J. Appl. Physiol*. 2006 Sep; 98(1):71-8. Epub 2006 Jul 14. PMID: 16841201

Stevens JE, Pathare NC*, Tillman SM, Scarborough MT, Gibbs CP, Shah P*, Jayaraman A*, Walter GA, **Vandenborne K**. Relative contributions of muscle activation and muscle size to plantarflexor torque during rehabilitation after immobilization. J Orthop Res. 2006 Aug; 24(8):1729-36. PMID: 16779833

Shah P*, Stevens JE, Gregory CM, Pathare NC*, Jayaraman A*, Bickel C, Bowden M, Behrman AL, Walter GA, Dudley GA, **Vandenborne K**. Lower extremity muscle cross sectional area after incomplete spinal cord injury. Arch Rehab Med. 2006 Jun; 87(6):772-8. PMID: 16731211

Liu M*, Bose P, Walter GA, Anderson DK, Thompson FJ, **Vandenborne K**. Changes in muscle T (2) relaxation properties following spinal cord injury and locomotor training. Eur J of Appl Physiol. 2006 Jun; 97(3):355-61. Epub 2006 Apr 25. PMID: 16770473

Ilfeld BM**, Wright TW, Enneking FK, **Vandenborne K**. Total elbow arthroplasty as an Outpatient procedure using a continuous infraclavicular nerve block at home: a prospective case report. Reg Anesth Pain Med. 2006 Mar-Apr; 31(2):172-6. PMID: 16543104

Ilfeld BM**, Gearen PF, Enneking FK, Berry LF, Spadoni EH, George SZ, **Vandenborne K**. Total hip arthroplasty as an overnight-stay procedure using an ambulatory continuous psoas compartment nerve block: a prospective feasibility study. Reg Anesth Pain Med. 2006 Mar-Apr; 31(2):113-8. PMID: 16543096

Ilfeld BM**, Gearen PF, Enneking FK, Berry LF, Spadoni EH, George SZ, **Vandenborne K**. Total knee arthroplasty as an overnight-stay procedure using continuous femoral nerve blocks at home: a prospective feasibility study. Anesth Analg. 2006 Jan; 102(1):87-90. Erratum in: Anesth Analg. 2006 Mar; 102(3):875. PMID: 16368810

Jayaraman A*, Gregory CM**, Bowden M, Stevens JE**, Shah P*, Behrman AL, **Vandenborne K**. Lower extremity skeletal muscle function in persons with incomplete spinal cord injury. Spinal Cord. 2006 Nov; 44(11):680-7. Epub 2005 Dec 13. PMID: 16344848

Ilfeld BM**, Wright TW, Enneking FK, Mace JA, Shuster JJ, Spadoni EH, Chmielewski TL**, **Vandenborne K**. Total shoulder arthroplasty as an outpatient procedure using Ambulatory perineural local anesthetic infusion: a pilot feasibility study. *Anesth Analg*. 2005; 101(5):1319-22. PMID: 16243987

Gregory CM**, Williams RH, **Vandenborne K**, Dudley GA. Metabolic and phenotypic characteristics of human skeletal muscle fibers as predictors of glycogen utilization during electrical stimulation. *Eur J Appl Physiol*. 2005 Oct; 95(4):276-82. Epub 2005 Oct 27. PMID: 16096841

Frimel TN*, Kapadia F, Gaidosh GS, Li Y, Walter GA, **Vandenborne K**. A model of muscle atrophy using cast immobilization in mice. *Muscle Nerve*. 2005; 32(5):672-4. PMID: 16025524

Frimel TN*, Walter GA, Gibbs JD, Gaidosh GS, **Vandenborne K**. Noninvasive monitoring of muscle damage during reloading following limb disuse. *Muscle Nerve*. 2005 Nov;32(5):605-12. PMID: 16003743

Mizner RL, Petterson SC, Stevens JE**, **Vandenborne K**, Snyder-Mackler L, Early quadriceps strength loss after total knee arthroplasty. The contributions of muscle atrophy and failure of voluntary muscle activation. *J Bone Joint Surg Am*. 2005 May; 87(5):1047-53. PMID: 15866968

Pathare N*, Walter GA, Stevens JA**, Yang Z, Okereke E, Gibbs JD, Esterhai JL, Scarborough MT, Gibbs CP, Sweeney HL, **Vandenborne, K**. Changes in inorganic phosphate and force production in human skeletal muscle following cast immobilization. *J Appl Physiol*. 2005 Jan; 98(1):307-14. Epub 2004 Aug 27. PMID: 15333614

White LJ, McCoy S, Castellano V, Gutierrez G, Stevens JE**, Walter GA, **Vandenborne K**. Resistance training improves strength and functional capacity in persons with multiple sclerosis. *Multiple Sclerosis*. 2004 Dec; 10(6):668-74. PMID: 15584492

Stevens JE**, Walter GA, Okereke E, Scarborough MT, Esterhai JL, George SZ, Kelley MJ, Tillman SM, Gibbs JD, Elliott MA, Frimel TN*, Gibbs CP, **Vandenborne K**. Muscle adaptations with immobilization and rehabilitation after ankle fracture. *Med Sci Sports Exerc.* 2004 Oct; 36(10):1695-701. PMID: 15595289

Gregory CM**, **Vandenborne K**, Castro MJ, Dudley GA. Human and rat skeletal adaptations to spinal cord injury. *Can J Appl Physiol.* 2003; 28(3):491-500. PMID: 12955874

Rosenbaum M, **Vandenborne K**, Goldsmith R, Simoneau JA, Heymsfield S, Joanisse DR, Hirsch J, Murphy E, Matthews D, Segal KR, Leibel RL. Effects of experimental weight perturbation on skeletal muscle work efficiency in human subjects. *Am J Physiol Regul Integr Comp Physiol.* 2003 Jul; 285(1):R183-92. Epub 2003 Feb 27. PMID: 12609816

Gregory CM**, **Vandenborne K**, Huang HFS, Ottenweller JE, Dudley, GA. Effects of Testosterone replacement therapy on skeletal muscle after spinal cord injury. *Spinal Cord.* 2003 Jan; 41(1):23-8. PMID: 12494317

Russ DW, **Vandenborne K**, Binder-Macleod SA. Factors in fatigue during intermittent Electrical stimulation of human skeletal muscle. *J Appl Physiol* 2002 Aug; 93(2):469-78. PMID: 12133852

Russ DW, **Vandenborne K**, Walter GA, Elliot M, Binder-Macleod SA. Effects of muscle activation on fatigue and metabolism in human skeletal muscle. *J Appl Physiol.* 2002 May; 92(5):1978-86. PMID: 11960948

Russ DW, Elliott MA, **Vandenborne K**, Walter GA, Binder-Macleod SA. Metabolic costs of isometric force generation and maintenance of human skeletal muscle. *Am J Physiol Endocrinol Metab.* 2002 Feb; 282(2):E448-57. PMID: 11788378

Al-Farra ET, **Vandenborne K**, Swift A, Ghafari J. Magnetic resonance spectroscopy of the masseter muscle in different facial morphological patterns. *Am J Orthod Dentofacial Orthop.* 2001; 120(4):427-34. PMID: 11606968

Gregory CM, **Vandenborne K**, Dudley GA. Metabolic enzymes and phenotypic expression among human locomotor muscles. *Muscle Nerve*. 2001 Mar; 24(3):387-93. PMID: 11353424

Shaffer M, Okereke E, Esterhai J, Elliott M, Walter GA, Yim S, **Vandenborne K**. The effects of immobilization on plantar flexion strength, endurance, and functional ability following an ankle fracture. *Physical Therap*. 2000 Aug; 80(8):769-80. PMID: 10911415

Vandenborne K, Walter G, Ploutz-Snyder L, Dudley G, Elliott MA, De Meirleir K, Leigh JS. Relationship between muscle T2 relaxation properties and metabolic state: a combined localized ³¹P-spectroscopy and ¹H-imaging study. *Eur J Appl Physiol*. 2000 May; 82(1-2):76-82. PMID: 10879446

Walter G, **Vandenborne K**, Elliott M, Leigh, JS. In vivo ATP synthesis rates in single human muscles during high-intensity exercise. *J Physiol (London)*. 1999 Sep 15; 519 Pt 3:901-10. PMID: 10457099

Elliott MA, Walter GA, Swift A, **Vandenborne K**, Schotland JC, Leigh JS. Spectral quantitation by principle-component analysis using complex singular value decomposition. *Magn Reson Med*. 1999 Mar; 41(3):450-5. PMID: 10204865

De Becker P, Dendale P, De Meirleir K, Campine I, **Vandenborne K**, Hagers Y. Autonomic testing in patients with chronic fatigue syndrome. *Am J Med*. 1998 Sep 28; 105(3A):22S-26S. PMID: 9790478

Vandenborne K, Elliott MA, Walter GA, Abdus S, Okereke E, Shaffer M, Tahernia D, Esterhai JL. Longitudinal study of skeletal muscle adaptations during immobilization and rehabilitation. *Muscle Nerve*. 1998 Aug; 21(8):1006-12. PMID: 9655118

Greenman RL, Elliott MA, **Vandenborne K**, Schnall MD, Lenkinski RE. Fast imaging of Phosphocreatine using a RARE pulse sequence. *Magn Reson Med*. 1998 May; 39(5):851-4. PMID: 9581617

Elliott MA, Walter GA, Gulish H, Sadi AS, Lawson DD, Jaffe W, Insko EK, Leigh JS, **Vandenborne K** . Volumetric measurement of human calf muscle from MRI. *Magma*. 1997 Jun; 5(2):93-8. PMID: 9268071

Walter G, **Vandenborne K**, McCully KK, Leigh JS. Noninvasive measurement of Phosphocreatine recovery kinetics in single human muscles. *Am J Physiol*. 1997 Feb; 272(2 Pt 1):C525-34. PMID: 9124295

Vandenborne K, Walter G, Ploutz-Snyder L, Staron R, Fry A, De Meirleir K, Dudley GA, Leigh JS. Energy-rich phosphates in slow and fast human skeletal muscle. *Am J Physiol*. 1995 Apr; 268(4 Pt 1):C869-76. PMID: 7733235

Vandenborne K, Walter G, Leigh JS, Goelman G. pH heterogeneity during exercise in localized spectra from single human muscles. *Am J Physiol*. 1995; 268(4 Pt 1):C869-76

McCully K, **Vandenborne K**, De Meirleir K, Posner J, Leigh JS. Muscle metabolism in track athletes, using ³¹P magnetic resonance spectroscopy. *Can J Physiol Pharmacol*. 1992; 7(10):1353-9

Vandenborne K, McCully K, Kakihira H, Prammer M, Bolinger L, Detre J, De Meirleir K, Walter G, Chance B, Leigh JS. Metabolic heterogeneity in human calf muscle during maximal exercise. *Proc Natl Acad Sci USA*. 1991; 88(13):5714-18

McCully KK, Kakihira H, **Vandenborne K**, Kent-Braun J. Noninvasive measurements of activity-induced changes in muscle metabolism. *J Biomech*. 1991; 24(Suppl 1):153-61

Joos E, De Meirleir K, **Vandenborne K**, Neirinck P. ³¹P magnetic resonance muscle spectroscopy in fibromyalgia. *J Rheumatol*. 1993; 20(11):1985-6. PMID: 8179665

Editorials, Reviews, Chapters:

Bell K, **Vandenborne K**. Contractures and limb deformities. *Neurorehabilitation*. New York: McGraw- Hill, Inc., 347-407, 1997.

McCully K, Vandenborne K, Walter G, Bank W. 31P-MRS of muscle pathology. *Imaging Skeletal Muscle in Health and Disease*. New York: Springer-Verlag, 159-163, 1996.

McCully K, Vandenborne K, Posner J, Chance B. Magnetic resonance spectroscopy of muscle bioenergetics. *NMR in Physiology and Biomedicine*. San Diego: Academic Press Inc., 405-412, 1994.

Pierre-Jerome C, Shahabpour M, **Vandenborne K**. The elbow joint. *Magnetic Resonance and Spectroscopy in Sports Medicine*. Springer Verlag, 131-138, 1991.

Shahabpour M, Pierre-Jerome C, **Vandenborne K**. Hips and pelvis. *Magnetic Resonance and Spectroscopy in Sports Medicine*. Springer Verlag, 101-116, 1991.

Achten E, **Vandenborne K**, Osteaux M, De Meirleir K. 31P magnetic resonance spectroscopy of muscle: the missing link between physiology and sports practice. *Magnetic Resonance and Spectroscopy in Sports Medicine*. Springer Verlag, 185-199, 1991.

Research Publications, non-peer reviewed:

Vohra R**, Forbes SC, Batra A, Zeng H, Kumar A, Girgenrath M, **Vandenborne K**, Walter GA. Assessment of Skeletal Muscle Size and Composition in Dystrophin and Laminin- α 2 Deficient Mice. National High Magnet Field Laboratory (NHMFL) Research Reports, 2014.

Forbes SC, Vohra R**, Zeng H, McNally E, **Vandenborne K**, Walter GA. Myocardial and Skeletal Muscle T2 is Reduced in γ -Sarcoglycan Deficient Mice at 7 Months of Age. National High Magnet Field Laboratory (NHMFL) Research Reports, 2014.

Forbes SC, Baligand C**, Brady S, Vohra R**, **Vandenborne K**, Walter GA. Lack of Neuronal Nitric Oxide Synthase Slows Phosphocreatine Recovery and Reduces Microvascular Function Following Muscle Contractions. National High Magnet Field Laboratory (NHMFL) Research Reports, Report Number 243. 2013.

Pathare N*, Liu M*, Stevens JE**, **Vandenborne K**, Walter GA. 31P Magnetic resonance spectroscopy of mouse skeletal muscle following hind limb cast immobilization. National High Magnetic Field Laboratory (NHMFL) Annual Research Report, 2005 p 4-5 (selected as a highlight).

Frimel TN* Cahill KS, Gaidosh G, Torres RT, Huard J, **Vandenborne K**, Byrne BJ, Walter GA. Noninvasive monitoring of stem cell delivery and muscle regeneration. NHMFL Reports Volume 11, Issue 1, 2004, p. 5-6.

Walter GA, **Vandenborne K**, Byrne BJ, Cahill KS, Frimel TN *, Gaidosh G. MRI monitoring of stem cell therapy. NHMFL Reports, Volume 10, Issue 5, 2003, p. 19-21.

Published Abstracts:

Taivassalo T, Lott D, Forbes S, Powers C, Walter GA, **Vandenborne K**, Sladky J, Stubbs K, Dixon W, Sweeney L. Impact and interplay of corticosteroid regimen and exercise training in boys with DMD. Presented at New Directions in Biology and Disease of Skeletal Muscle, Fort Lauderdale, Florida, June 2022

Barnard AM, Dixon L, **Vandenborne K**, Kokesh K, Zingariello C, Walter GA. Skeletal Muscle Health in Female Dystrophinopathy. New Directions in Biology and Disease of Skeletal Muscle Conference. Fort Lauderdale, Florida. June 2022. (POSTER)

Barnard AM, Dixon L, **Vandenborne K**, Kokesh K, Zingariello C, Walter GA. The spectrum of muscle involvement in female carriers with symptoms. Parent Project Muscular Dystrophy 2022 Annual Conference. Scottsdale, Arizona. June 2022.

Lucena R., Lopez C., Awale P., Taivassalo T., **Vandenborne K.**, Walter G.A., Forbes S.C. Magnetic Resonance Phosphocreatine Recovery Rates and Functional Test Performance in Boys with Duchenne Muscular Dystrophy. Undergraduate Research Symposium, University of Florida, Gainesville, Florida, April 2022.

Taivassalo T., Carvill A., Lott D., Stubbs K., Dixon W., Forbes S., **Vandenborne K.**, Walter G., Sweeney HL. Therapeutic potential of combined cycling and isometric strength training in patients with DMD: preliminary findings. *Eur J Transl Myol.* 32(1): 10440, 2022.

Nair K, Forbes SC, Barnard A, Willcocks RJ, Rooney W, Lott DJ, Finanger E, Senesac C, Brandsema J, Wang DJ, Walter GA, **Vandenborne K.** Longitudinal Assessment of Disease Progression in Duchenne Muscular Dystrophy Using Magnetic Resonance Imaging and North Star Ambulatory Assessment. Muscular Dystrophy Association Clinical & Scientific Conference, Nashville, Tennessee, March 2022.

Willcocks RJ, Barnard AM, Forbes SC, Triplett WT, Brandsema J, Finanger EL, Rooney WD, Kim S, Wang DJ, Lott DJ, Senesac CR, Walter GA, Sweeney HL, **Vandenborne K.** Minimum Clinically Important Difference in Magnetic Resonance Spectroscopy Vastus Lateralis Muscle Fat Fraction in DMD. Muscular Dystrophy Association Clinical & Scientific Conference, Nashville, Tennessee, March 2022.

Awale P., Lopez C., Amna S., Park S., **Vandenborne K.**, Forbes SC. Reproducibility of MRI data analysis of dystrophic skeletal muscle in lower hindlimbs of mice. Neuromuscular Plasticity Symposium, Gainesville, Florida, March 2022.

Bellam P, Lopez C, Forbes SC, Willcocks RJ, Triplett WT, Brandsema J, Finanger EL, Rooney WD, Wang DJ, Barnard AM, Lott DJ, Senesac CR, Walter GA, Sweeney HL, **Vandenborne K.** Comparison of Dixon MR Imaging and MR Spectroscopy to Quantify Fat Infiltration in Arm Muscles of Boys with Duchenne Muscular Dystrophy. Neuromuscular Plasticity Symposium, Gainesville, Florida, March 2022.

Lucena R, Lopez C, Awale P, Taivassalo T, **Vandenborne K.**, Walter GA, Forbes SC. Skeletal muscle phosphocreatine recovery kinetics and BOLD response following isometric dorsiflexion contractions in Duchenne muscular dystrophy. Presented at MYO MRI (online meeting), October 2021.

Lott DJ, Carvill A, Powers C, Forbes, S, **Vandenborne K**, Stubbs K, Dixon W, Sweeney HL, Taivassalo T. A novel therapeutic exercise device for boys with DMD. Submitted to New Directions Conference, Charleston, SC. June 2021.

Barnard AM, Lott DJ, Riehl SL, Taivassalo T, Smith BK, **Vandenborne K**, Walter GA. Pulmonary function testing and the DMD care considerations. Parent Project Muscular Dystrophy Annual Conference, Virtual, June 2021.

Lott DJ, **Vandenborne K**. Magnetic resonance imaging in muscular dystrophies. Virtual FSHD 360 Conference for the FSHD Society, Gainesville, FL, June 2021.

Ishu Arpan¹, William D Rooney¹, Rebecca J Willcocks², Alison M Barnard², Sean C Forbes², William T Triplett², Eric Baetscher¹, Michael J Daniels², Glenn A Walter², and **Krista Vandenborne**. Deflazacort & prednisone/prednisolone treatment in Duchenne muscular dystrophy: Disease trajectory differences modeled using MR biomarkers. International Society of Magnetic Resonance in Medicine, May 2021.

Lopez C, Saavedra A, Batra A, Moslemi Z, Rasmussen H, Walter GA, **Vandenborne K**, Forbes SC. Microvascular Function in Duchenne muscular dystrophy evaluated with MRI. Neuromuscular Plasticity Symposium, Gainesville, Florida, March 2021.

Chong D, Barnard AM, Lott DJ, Batra A, Riehl SL, Triplett WT, **Vandenborne K**, Forbes SC, Walter GA. Muscle fat fraction from magnetic resonance imaging as a biomarker for disease progression in limb-girdle muscular dystrophy recessive 1 (LGMDR1). Neuromuscular Plasticity Symposium, Gainesville, Florida, March 2021.

Nair K, Forbes SC, Willcocks RJ, Barnard AM, Lott DJ, Senesac CR, Walter GA, **Vandenborne K**. Longitudinal assessment of disease progression in Duchenne muscular dystrophy using MR imaging and functional tests. Neuromuscular Plasticity symposium, Gainesville, FL, March 2021.

Wallace M, Willcocks R, Wortman R, Lott DJ, Senesac C, Harrington A, Zilke K, Rooney W, Wang DJ, Walter G, **Vandenborne K**. Mid-femur cortical thickness and ambulatory function in boys with Duchenne muscular dystrophy. Neuromuscular Plasticity Symposium, Gainesville, FL, March 2021.

Lopez C, Saavedra A, Batra A, Moslemi Z, Rasmussen H, Walter GA, **Vandenborne K**, Forbes SC. Post-contrast blood oxygenation level dependence (BOLD) response in Duchenne muscular dystrophy. Muscular Dystrophy Association (Virtual Clinical and Scientific Conference), March 2021.

Berru M, Lopez C, Roetzheim A, Saavedra A, Walter GA, **Vandenborne K**, Taivassalo T, Forbes SC. Relationship between the post-contrast MRI blood oxygen level dependent (BOLD) response and markers of disease progression in Duchenne muscular dystrophy. Presented at the Undergraduate Research Symposium, University of Florida, November 2020.

Finanger E, Finkel R, Tennekoon G, **Vandenborne K**, Sweeney HL, Shieh P, Yum S, Mancini M, MacDougall J, Donovan J. Edasalonexent treatment in young boys with Duchenne muscular dystrophy is associated with age-normative growth and normal adrenal function. World Muscle Society. World Muscle Society. October 2020.

Goemans N, McDonald C, Signorovitch J, Sajeev G, Fillbrunn M, Wong H, Mercuri E, **Vandenborne K**, Muntoni F, Ward S, Investigators for PRO-DMD-01, The ImagingDMD Study, iMDEX, cTAP. Prognostic factors for loss of ability to rise from supine in Duchenne muscular dystrophy (DMD). World Muscle Society. October 2020. **Vandenborne, K.**, Kim, S., Willcocks, R., Morales, J., Lingineni, K., Barnard, A., Schmidt, S., Daniels, M., Triplett, W., Larkindale, J. and Walter, G., 2020. MUSCLE IMAGING–MRI: P. 161 Development of clinical trial simulation tools for Duchenne muscular dystrophy using magnetic resonance biomarkers. *Neuromuscular Disorders*, 30, pp.S93-S94. October 2020.

Willcocks, R.J., Forbes, S.C., Lott, D.J., Senesac, C.R., Barnard, A.M., Lehman, K.J., Nease, C.E., Church, K., Sahenk, Z., Sweeney, H.L. and Rodino-Klapac. LATE BREAKING NEWS E-POSTER PRESENTATION: LBP 13 rAAVrh. 74. MHCK7. Micro dystrophin gene therapy in children with Duchenne muscular dystrophy: A quantitative MR biomarker study. *Neuromuscular Disorders*. October 2020.

Willcocks, R. PhD, Kim, S. PhD, Schmidt, S. PhD, F.C.P., Walter, G. PhD, Triplett, W. Forbes, S. PhD, Wang, D. PhD, Rooney, W. MD, **Vandenborne, K.** PT, PhD, Daniels, M. Developing a clinical trial optimization tool for DMD using muscle MR biomarkers. MDA Virtual Conference August 2020.

Lopez C, Saavedra A, Batra A, Rasmussen H, Walter GA, **Vandenborne K**, Forbes SC. Microvascular Function in Duchenne muscular dystrophy evaluated with MRI. MDA Clinical & Scientific Conference, Orlando, Florida, May 2020.

Batra A, Lott DJ, Barnard A, Willcocks RJ, Forbes SC, William T, Schmalfluss C, **Vandenborne K**, Walter GA. Alteration in cardiac functions of children with Duchenne Muscular Dystrophy as measured by Magnetic Resonance Imaging. LSU Health Science conference. New Orleans, LA. March 2020.

Lopez C, Saavedra A, Batra A, Moslemi Z, Rasmussen H, Walter GA, **Vandenborne K**, Forbes SC. Microvascular Function in Duchenne muscular dystrophy evaluated with MRI. Myology Institute Retreat, Gainesville, Florida, March 2020.

Nair KS, Lott DJ, Barnard AM, Forbes SC, Willcocks RJ, Senesac CR, Walter GA, **Vandenborne K**. Link between step activity and magnetic resonance measures of muscle pathology in Duchenne muscular dystrophy. Neuromuscular Plasticity symposium, Gainesville, FL, Feb 2020.

Alison M Barnard, DPT, PhD; Donovan J Lott, PT, PhD; Abhinandan Batra, PT, PhD; Samuel L Riehl, BS; Rebecca J Willcocks, PhD; William T Triplett, BS; Barbara K Smith, PT, PhD; **Krista Vandenborne**, PT, PhD; Glenn A Walter, PhD. Respiratory muscle changes in Duchenne muscular dystrophy: Results from four years of prospective observation. Neuromuscular Plasticity symposium, Gainesville, FL, Feb 2020.

Vandenborne K, Sweeney HL, Finkel R, Willcocks RJ, Barnard A, Finanger EL, Tennekoon GI, Shieh P, Walter GA, Rooney W, Forbes SC, Triplett WT, Yum SW, Mancini M, MacDougall J, Donovan J.M. A Composite of MRI T2 of Five Lower Leg Muscles Is Highly Correlated with Timed Function Tests and Functional Status in ImagingDMD Natural History Database, and Supports Positive Effects of Edasalonexent in 4 to 7-Year Old Patients with Duchenne Muscular Dystrophy. Presented at Myo-MRI, Berlin, Germany, November 2019.

Sweeney HL, **Vandenborne K**, Finkel R, Finanger EL, Tennekoon GI, Shieh P, Willcocks RJ, Walter GA, Rooney W, Forbes SC, Triplett WT, Yum SW, Mancini M, MacDougall J and Donovan JM. MoveDMD, a Phase 2 with Open-Label Extension Study of Treatment of Young Boys with Duchenne Muscular Dystrophy with the NF- κ B Inhibitor Edasalonexent Showed a Slowing of Disease Progression as Assessed by MRI and Functional Measures. Presented at Myo-MRI, Berlin, Germany, November 2019.

R Finkel, **K Vandenborne**, H Sweeney, E Finanger, G Tennekoon, P Shieh, R Willcocks, G Walter, W Rooney, S Forbes, W Triplett, S Yum, M Mancini, J MacDougall, A Fretzen, P Bista, A Nichols, J Donovan. Treatment of young boys with Duchenne muscular dystrophy with the NF- κ B inhibitor edasalonexent showed a slowing of disease progression as assessed by MRI and functional measures. World Muscle Society, Copenhagen, Denmark, October, 2019.

Willcocks RJ, Barnard AM, Arora HA, Forbes SC, Lott DJ, Harrington AT, Senesac CR, Triplett WT, Daniels MJ, Finanger EL, Finkel RS, Tennekoon GI, Wang DJ, Rooney WD, Walter GA, Sweeney HL, **Vandenborne K**. Development of contractures in DMD: Natural history data from the ImagingDMD study. Parent Project Muscular Dystrophy Connect Conference, Orlando, FL, June 2019.

Willcocks RJ, Alabasi UM, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Senesac CR, Lott DJ, Finkel RS, Subramony SH, Tennekoon GI, Finanger EL, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Relationships between body mass index, intramuscular fat, and functional performance in DMD. Parent Project Muscular Dystrophy Connect Conference, Orlando, FL, June 2019.

Saavedra A, Rasmussen H, Lopez C, Arora H, Taivassalo T, **Vandenborne K**, Forbes SC. MR Assessment of Bioenergetics and Microvascular Function in Dystrophic Muscle: A Feasibility Study. Parent Project Muscular Dystrophy, Orlando, FL, June, 2019.

Finkel RS, **Vandenborne K**, Sweeney HL, Finanger E, Tennekoon G, Shieh P, Willcocks RJ, Walter GA, Rooney WD, Forbes SC, Triplett WT, Yum S, Mancini M, MacDougall, Donovan JM. Edasalonexent, a Novel NF- κ B Inhibitor, Slows Disease Progression in Young Boys with Duchenne in Phase 2 and Open-Label Extension of MoveDMD® Trial. Parent Project Muscular Dystrophy, Orlando, FL, June, 2019.

Alabasi UM, Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Senesac CR, Lott DJ, Finkel RS, Subramony SH, Tennekoon GI, Finanger EL, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Relationships between body mass index, intramuscular fat, and functional performance in DMD. Parent Project Muscular Dystrophy, Orlando, FL, June, 2019.

Barnard A, Lott D, Batra A, Triplett W, Forbes SC, Riehl S, Willcocks RJ, Smith B, **Vandenborne K**, Walter G. Characterizing respiratory muscle composition and function in Duchenne muscular dystrophy using dynamic MRI and chemical shift encoded imaging. Presented at the International Society of Magnetic Resonance Meeting (ISMRM), Montreal, Canada, April, 2019.

Finkel RS, **Vandenborne K**, Sweeney HL, Finanger EL, Tennekoon GI, Shieh P, Willcocks RJ, Walter G, Rooney WD, Forbes SC, Triplett WT, Yum SW, Mancini M, MacDougall J, Fretzen A, Bista P, Nichols A, Donovan JM. Edasalonexent, an NF- κ B Inhibitor, Slows Longer-Term Disease Progression on Multiple Functional and MRI Assessments Compared to Control Period in 4 to 7-Year Old Patients with Duchenne Muscular Dystrophy. *Neurology* Apr 2019, 92 (15 Supplement) S51.006. Presented at The American Academy of Neurology, Philadelphia, PA, April, 2019.

Alison M Barnard, DPT, PhD; Donovan J Lott, PT, PhD; Abhinandan Batra, PT, PhD; Samuel L Riehl, BS; Rebecca J Willcocks, PhD; William T Triplett, BS; Barbara K Smith, PT, PhD; **Krista Vandenborne**, PT, PhD; Glenn A Walter, PhD. Longitudinal Study of Expiratory Muscle Fatty Replacement in Duchenne Muscular Dystrophy. Muscular Dystrophy Association's Annual Meeting. Orlando, FL, April 2019

Kamamma KS, Barnard AM, Willcocks, RJ, Lott DJ, Senesac CR, Harrington AT, Finanger EL, Tennekoon GI, Russman BS, Finkel RS, Wang DJ, Rooney WD, Walter GA, **Vandenborne K**. Evaluating Loss of Ambulation in Duchenne Muscular Dystrophy Using Clinical Tests and MRI. Advances in Skeletal Muscle Biology in Health and Disease conference. Gainesville, FL. March 6-8, 2019.

Finkel R, **Vandenborne K**, Sweeney HL, Finanger E, Tennekoon G, Shieh P, Wilcocks R, Walter G, Rooney W, Forbes SC, Triplett W, Yum S, Mancini M, MacDougall J, Fretzen A, Bista P, Nichols A, Donovan J Edasalonexent, an NF-kB Inhibitor, Slows Longer-Term Disease Progression on Multiple Functional and MRI Assessments Compared to Control Period in 4 to 7-Year Old Patients with Duchenne Muscular Dystrophy (S51.006) Neurology Apr 2019, 92 (15 Supplement) S51.006.

Finkel RS, **Vandenborne K**, Sweeney HL, Finanger E, Tennekoon G, Shieh P, Willcocks RJ, Walter GA, Rooney WD, Forbes SC, Triplett WT, Yum S, Mancini M, MacDougall, Donovan JM. MoveDMD Phase 2 Data Supports Design of PolarisDMD, a Phase 3 Study of Edasalonexent, a Novel NF-kB Inhibitor. Muscular Dystrophy Association, Orlando, Fl., February, 2019.

Kamamma K, Willcocks RJ, Barnard AM, Lott DH, Senesac CR, Arora H, Harrington AT, Finanger EL, Tennekoon GI, Russman B, Finkel RS, Wang DJ, Rooney WD, Walter GA, **Vandenborne K**. Functional performance and magnetic resonance imaging determined muscle involvement in Duchenne Muscular Dystrophy. ACSM Conference, Washington DC, January 2019.

Forbes SC, Willcocks RJ, Triplett WT, Arora H, Rooney WD, Wang DJ, Daniels MJ, Finanger EL, Finkel R, Tennekoon GI, Sweeney HL, Walter GA, **Vandenborne K**. MR Biomarkers in ImagingDMD Clinical Trial Network. World Muscle Society, Mendoza, Argentina, October 2-6, 2018.

Finkel R, **Vandenborne K**, Sweeney H, Finanger E, Tennekoon G, Shieh P, Willcocks R, Walter G, Rooney W, Forbes S, Triplett W, Yum S, Manicni M, MacDougall J, Fretzen A, Bista P, Nichols A, Donovan J. Edasalonexent, an NF-kb Inhibitor, slows disease progression over more than a year compared to control period in 4 to 7-year old patients with Duchenne muscular dystrophy. 23rd International WMS Congress. Mendoza, Argentina. October 2-6, 2018.

Arora H, Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Daniels MJ, Finanger EL, Tennekoon GI, Brandsema J, Sweeney HL, Walter GA, **Vandenborne K**. Disease progression in arm versus leg muscles in Duchenne muscular dystrophy. 23rd International WMS Congress. Mendoza, Argentina. October 2-6, 2018.

Batra A, Lott DJ, Willcocks RJ, Forbes SC, Barnard A, William T, Schmalfuss C, **Vandenborne K**, Walter GA. Cardiomyopathy progression in Duchenne Muscular Dystrophy and its relation to skeletal muscle pathology. 2018 PHHP Research Day, Gainesville, Florida, April 2018.

Barnard AM, Lott DJ, Batra A, Triplett WT, Forbes SC, Riehl S, Willcocks RJ, Smith BK, **Vandenborne K**, Walter GA. Imaging inspiratory muscle pathology and function in boys and young men with Duchenne muscular dystrophy. School of Public Health and Health Professions Research Day. Gainesville, FL. April 2018.

Alabasi UM, Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Lott DJ, Barnard AM, Senesac CR, Finanger EL, Tennekoon GI, Finkel RS, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Intramuscular fat infiltration characterization of upper extremity muscles and functional performance association in individuals with Duchenne muscular dystrophy. School of Public Health and Health Professions Research Day. Gainesville, FL. April 2018.

Wortman RJ, Notman D, Willcocks RJ, Finanger EL, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Russman BS, Finkel RS, Tennekoon GI, Brandsema J, Sweeney HL, Walter GA, **Vandenborne K**. Examining bone health in Duchenne muscular dystrophy using magnetic resonance imaging. 13th Annual Neuromuscular Plasticity Symposium, Gainesville, FL, March 2018.

Uffer JC, Barnard A, Lott DJ, Batra A, Willcocks RJ, Triplett WT, Forbes SC, **Vandenborne K**, Walter GA. Differential paraspinous muscle fatty infiltration along the spine in Duchenne muscular dystrophy. 13th Annual Neuromuscular Plasticity Symposium, Gainesville, FL, March 2018.

Reid G, Arora H, Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Finanger EL, Russman BS, Finkel RS, Tennekoon GI, Brandsema S, Sweeney HL, Walter GA, **Vandenborne K**. Upper extremity muscle cross sectional area: a possible target for intervention in individuals with DMD? 13th Annual Neuromuscular Plasticity Symposium, Gainesville, FL, March 2018.

Kamamma KS, Willcocks RJ, Barnard AM, Lott DJ, Senesac CR, Arora H, Harrington AT, Tennekoon GI, Brandsema JF, Daniels MJ, Finanger EL, Walter GA, **Vandenborne K**. Characterization of walking performance and prediction of loss of ambulation in Duchenne muscular dystrophy. 2018 NMPT, Gainesville, FL, March 2018.

Batra A, Lott DJ, Willcocks, RJ, Forbes SC, Barnard A, Triplett WT, Schmalfluss C, **Vandenborne K**, Walter GA. Longitudinal changes in cardiac strain and relationship to skeletal muscle involvement in Duchenne muscular dystrophy, 13th Annual Neuromuscular Plasticity Symposium, Gainesville, FL, March 2018.

Barnard AM, Lott DJ, Batra A, Triplett WT, Forbes SC, Riehl S, Willcocks RJ, Smith BK, **Vandenborne K**, Walter GA. Imaging respiratory muscle pathology and function in Duchenne muscular dystrophy. 13th Annual Neuromuscular Plasticity Symposium, Gainesville, FL, March 2018.

Alabasi UM, Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Arora H, Lott DJ, Barnard AM, Senesac CS, Finanger EL, Tennekoon GI, Sweeney HL, Walter GA, **Vandenborne K**. Association between arm muscle fat infiltration and functional performance in individuals with Duchenne muscular dystrophy. 13th Annual Neuromuscular Plasticity Symposium, Gainesville, FL, March 2018.

Barnard AM, Lott DJ, Batra A, Forbes SC, Triplett WT, Riehl S, Smith BK, **Vandenborne K**, Walter GA. Respiratory muscle composition and breathing dynamics assessed by MRI in Duchenne muscular dystrophy. Imaging in Neuromuscular Disease. Berlin, Germany, November, 2017.

Willcocks RJ, Forbes SC, Lott DJ, Senesac CR, Arora H*, Barnard AM*, Harrington AT, Daniels MJ, Finanger EL, Tennekoon GI, Finkel RS, Wang DJ, Rooney WD, Walter GA, Sweeney HL, **Vandenborne K**. Magnetic resonance biomarkers in the proximal and distal upper extremity in a large cohort of boys with Duchenne muscular dystrophy. World Muscle Society Annual Meeting, Saint Malo, France, September 2017.

Willcocks RJ, Barnard AM*, Arora H*, Forbes SC, Lott DJ, Harrington AT, Triplett WT, Daniels MJ, Finanger EL, Finkel RS, Tennekoon GI, Wang DJ, Rooney WD, Walter GA, Sweeney HL, **Vandenborne K**. Quantitative magnetic resonance biomarkers are related to both lower and upper extremity function. Parent Project Muscular Dystrophy Connect Conference, Chicago, IL, June 2017.

Barnard AM*, Lott D, Willcocks RJ, Forbes SC, Triplett W, Riehl S, Batra A*, Smith BK, **Vandenborne K**, Walter GA. A Novel MRI Study of Diaphragm and Chest Wall Dynamics in Duchenne Muscular Dystrophy. 30th Annual PPHP Research Day. Gainesville, FL, April 2017.

Baetscher E, Thomas BM, Manoh S, **Vandenborne K**, Walter GA, Rooney WD. Quantitative MRI of In Vivo Water and Lipid Concentrations with the ERETIC Method. Accepted. ISMRSM. Hawaii. April 2017.

Arora H*, Willcocks RJ, Forbes SC, Rooney WD, Triplett WT, Wang DJ, Lott DJ, Senesac CR, Barnard AM*, Harrington AT, Zilke KL, Finanger EL, Tennekoon GI, Russman BS, Finkel RS, Byrne BJ, Sweeney HL, Walter GA, **Vandenborne K**. Quantitative MR measures of upper extremity are related to upper extremity functional ability in boys with DMD. 30th Annual PPHP Research Day. Gainesville, FL, April 12, 2017.

Alabasi U*, Willcocks RJ, Forbes SC, Triplett W, Rooney WD, Wang DJ, Lott D, Barnard AM*, Senesac CR, Finanger E, Tennekoon G, Finkel RS, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Upper Extremity Muscles Involvement in Boys with Duchenne Muscular Dystrophy, a Natural Disease Progression Study. 30th Annual PPHP Research Day. Gainesville, FL, April 2017.

Willcocks RJ, Forbes SC, Triplett WT, Arora H*, Walter GA, **Vandenborne K**. Magnetic Resonance Biomarkers Capture Disease in Both Progressed and Preserved Muscles in the Upper Extremity of Nonambulatory Boys with DMD. Muscular Dystrophy Association Scientific Conference, Washington, DC, March 2017.

Batra A*, Lott DJ, Willcocks RJ, William T, Barnard A*, Schmalfuss C, **Vandenborne KH**, Walter GA. Cardiac MRI to assess cardiac remodeling in Duchenne Muscular Dystrophy. 12th Annual Neuromuscular Plasticity Symposium. Gainesville, FL. March 17, 2017.

Arora H*, Willcocks RJ, Forbes SC, Rooney WD, Triplett WT, Wang DJ, Lott DJ, Senesac CR, Barnard AM*, Harrington AT, Zilke KL, Finanger EL, Tennekoon GI, Russman BS, Finkel RS, Byrne BJ, Sweeney HL, Walter GA, **Vandenborne K**. MR measures correlate with functional ability in the upper extremity of boys with DMD. 12th Annual Neuromuscular Plasticity Symposium. Gainesville, FL. March 17, 2017.

Alabasi UM*, Willcocks RJ, Forbes SC, Triplett WT, Rooney, WD, Wang, DJ, Lott, DJ, Barnard AM*, Senesac CS, Finanger E, Tennekoon GI, Finkel RS, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. MRI quantification of Intramuscular Fat in Arm Muscles in Boys with Duchenne Muscular Dystrophy. 12th Annual Neuromuscular Plasticity at UF, Gainesville, FL. March 17, 2017.

Batra A*, Lott DJ, Willcocks RJ, William T, Barnard A*, Schmalfluss C, **Vandenborne KH**, Walter GA. Cardiac MRI to assess cardiac remodeling in Duchenne Muscular Dystrophy. Advances in Skeletal Muscle Biology in Health and Disease: 15th Biennial Conference. Gainesville, FL. March 8-10, 2017.

Barnard AM*, Lott D, Willcocks RJ, Forbes SC, Triplett W, Batra A*, Smith BK, **Vandenborne K**, Walter GA. An MRI Investigation of Trunk Muscle Involvement and Effects on Expiratory Function in Duchenne Muscular Dystrophy. Advances in Skeletal Muscle Biology in Health and Disease: 15th Biennial Conference. Gainesville, FL. March 2017.

Arora H*, Willcocks RJ, Forbes SC, Rooney WD, Lott DJ, Senesac CR, Zilke KL, Harrington AT, Wang DJ, Tennekoon GI, Finanger EL, Russman BS, Finkel RS, Triplett WT, Byrne BJ, Sweeney HL, Walter GA, **Vandenborne K**. MRI muscle T2 correlates with upper extremity functional ability in boys with DMD. Advances in Skeletal Muscle Biology in Health and Disease: 15th Biennial Conference. Gainesville, FL. March 8-10, 2017.

Alabasi U*, Willcocks RJ, Forbes SC, Triplett W, Rooney WD, Wang DJ, Lott D, Finkel RS, Tennekoon G, Finanger E, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Natural Disease Progression of Upper Extremity Muscles in Boys with Duchenne Muscular Dystrophy, Cross-sectional Study. 15th Advances in Skeletal Muscle Biology in Health and Disease conference. Gainesville, FL. March 8, 2017.

Barnard AM*, Lott D, Willcocks RJ, Forbes SC, Triplett W, Riehl S, Batra A*, Smith BK, **Vandenborne K**, Walter GA. The Effects of Failed Muscle Regeneration on Trunk and Respiratory Muscle Composition and Function in Duchenne Muscular Dystrophy. 12th Annual Neuromuscular Plasticity Symposium. Gainesville, FL. Mar 2017.

Barnard AM*, Lott D, Willcocks RJ, Forbes SC, Triplett W, Batra A*, Smith K, **Vandenborne K**, Walter GA. Preliminary Investigation of Trunk Muscle Involvement in Duchenne Muscular Dystrophy using Magnetic Resonance Imaging. Combined Sections Meeting of the APTA. San Antonio, Tx. Feb 2017.

Lee-McMullen BA*, Chrzanowski SM*, Vohra R**, Forbes S, Edison AS, **Vandenborne K**, Walter GA. In vivo and ex vivo metabolomic analysis for Duchenne muscular dystrophy in the mdx mouse model. New Directions in Biology and Disease of Skeletal Muscle Conference. June 29-July 2, 2016.

Forbes SC, Mangiera G, Batra A*, Vohra R**, **Vandenborne K**, Walter GA. Altered bioenergetics with age and genetic background in skeletal muscle of mdx mice. New Directions in Biology and Disease of Skeletal Muscle Conference. June 29-July 2, 2016.

Batra A*, Abrogast J, Chrznawoski S*, Lott DJ, Willcocks RJ, William T, Schmalfluss C, **Vandenborne K**, Walter GA. Relationship between Cardiac Muscle Involvement and Lower Limb Muscle Composition in DMD. New Directions in Biology and Disease of Skeletal Muscle Conference. June 29-July 2, 2016.

Willcocks RJ, Finanger ER, Senesac CR, Lott DJ, Finkel, RS, Tennekoon, GI, Byrne, BJ, Russman, BS, **Vandenborne K**. Fractures, supplements, and bisphosphonates: A retrospective review of boys with Duchenne Muscular Dystrophy enrolled in ImagingDMD. Parent Project Muscular Dystrophy's Annual Connect Conference. Orlando, Florida. June 26-29, 2016.

Arora H*, Willcocks RJ, Forbes SC, Rooney WD, Lott DJ, Senesac CR, Zilke KL, Harrington AT, Wang DJ, Tennekoon GI, Finanger EL, Russman BS, Finkel RS, Triplett WT, Byrne BJ, Sweeney HL, Walter GA, **Vandenborne K**. Relationship between MR measures of muscle quality and functional ability in the upper extremity of boys with Duchenne Muscular Dystrophy. Parent Project Muscular Dystrophy's Annual Connect Conference. Orlando, Florida. June 26-29, 2016.

Batra A*, Abrogast J, Chrznawoski S*, Lott DJ, Willcocks RJ, William T, Schmalfluss C, **Vandenborne K**, Walter GA. Non Invasive Monitoring of cardiomyopathy in Duchenne Muscular Dystrophy (DMD). 29th Annual PHHP Research Day. Gainesville, Florida. April 13, 2016.

Barnard AM*, Willcocks RJ, Finanger, EL, Triplett WT, Rooney WD, Lott DJ, Wang DJ, Senesac CR, Forbes SC, Tokay-Harrington AT, Daniels MJ, Finkel RS, Russman BS, Byrne BJ, Tennekoon GI, Glenn GA, Sweeney HL, **Vandenborne K**. Muscle Magnetic Resonance Measures Correlate with Functional Ability in DMD. 29th Annual PHHP Research Day. Gainesville, Florida. April 13, 2016.

Arora H*, Willcocks RJ, Lott DJ, Senesac CR, Forbes SC, Rooney WD, Walter GA, **Vandenborne K**. MR - Quantitative Measures to Study Arm Involvement in Boys with DMD. 29th Annual PHHP Research Day. Gainesville, Florida. April 13, 2016.

Alabasi U*, Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Lott DJ, Senesac CR, Finkel RS, Tennekoon GI, Finanger EL, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Obesity Impact on Disease Progression in Boys with Duchenne Muscular Dystrophy Over 1-year Period. 29th Annual PHHP Research Day. Gainesville, Florida. April 13, 2016.

Lee-McMullen BA*, Chrzanowski SM*, Vohra R**, Willcocks R, Cunkle H, Powers C, Baligand C, Triplett W, Forbes S, Lott D, Senesac C, Edison AS, **Vandenborne K**, Walter GA. Metabolomic Analysis of Urine in Duchenne Muscular Dystrophy. 11th Annual Neuromuscular Plasticity Symposium. Gainesville, FL. March 11, 2016.

Barnard AM*, Willcocks RJ, Finanger EL, Triplett WT, Rooney WD, Lott DJ, Wang DJ, Senesac CR, Forbes SC, Tokay-Harrington AT, Daniels MJ, Finkel RS, Russman BS, Byrne BJ, Tennekoon GI, Glenn GA, Sweeney HL, **Vandenborne K**. Skeletal muscle magnetic resonance measures are linked to function and sentinel events in Duchenne muscular dystrophy. 11th Annual Neuromuscular Plasticity Symposium. Gainesville, FL. March 11, 2016.

Arora H*, Willcocks RJ, Lott DJ, Senesac CR, Forbes SC, Rooney WD, Walter GA, **Vandenborne K**. Correlation of MRI and MRS with Performance of Upper Limb Functional Test in Boys with Duchenne Muscular Dystrophy. 11th Annual Neuromuscular Plasticity Symposium. Gainesville, Florida. March 11, 2016.

Senesac CR, Willcocks RJ, Lott DJ, Forbes SC, Rooney WD, Wang DJ, Finanger EL, Tokay-Harrington AT, Tennekoon GI, Finkel RS, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. ImagingDMD: MR Biomarkers in Duchenne Muscular Dystrophy: What we have learned in 5 years. American Physical Therapy Association Combined Sections Meeting. Anaheim, CA. Feb 17-20, 2016.

Arora H*, Willcocks RJ, Lott DJ, Harrington AT, Senesac CR, Zilke KL, Tennekoon GI, Finanger EL, Finkel RS, Triplett WT, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Longitudinal decline in functional performance in ambulatory boys with Duchenne Muscular Dystrophy. American Physical Therapy Association -Combined Sections Meeting. Anaheim, California. February 17-20, 2016.

Batra A*, Vohra R**, Chrznowoski S*, Lott DJ, Walter G, **Vandenborne K**, Forbes SC. Effect of PDE5A inhibitors on muscle damage and performance during progressive low intensity training in mdx mice. 14th Biennial Advances in Skeletal Muscle Biology in Health and Disease. Gainesville, FL. Jan 20-22, 2016.

Barnard AM*, Willcocks RJ, Finanger, EL, Triplett WT, Rooney WD, Lott DJ, Wang DJ, Senesac CR, Forbes SC, Tokay-Harrington AT, Daniels MJ, Finkel RS, Russman BS, Byrne BJ, Tennekoon GI, Glenn GA, Sweeney HL, **Vandenborne K**. Magnetic resonance measures are correlated to functional ability in Duchenne muscular dystrophy. 14th Biennial Advances in Skeletal Muscle Biology in Health and Disease. Gainesville, FL. Jan 20-22, 2016.

Arora H*, Willcocks RJ, Lott DJ, Harrington AT, Senesac CR, Zilke KL, Tennekoon GI, Finanger EL, Finkel RS, Triplett WT, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Longitudinal changes in function in ambulatory boys with Duchenne Muscular Dystrophy. 14th Biennial Advances in Skeletal Muscle Biology in Health and Disease. Gainesville, FL. Jan 20-22, 2016.

Alabasi U*, Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Wang DJ, Lott DJ, Finkel RS, Tennekoon GI, Finanger EL, Russman BS, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Effect of Obesity on Disease Progression in Boys with Duchenne Muscular Dystrophy over 1-year Period. 14th Biennial Advances in Skeletal Muscle Biology in Health and Disease. Gainesville, FL. Jan 20-22, 2016.

Willcocks RJ, Triplett WT, Lott DJ, Forbes SC, Dastgir J, Bonnemann C, **Vandenborne K**, Walter GA. Quantitative MRI and MRS detect alterations in muscle quality in both congenital muscular dystrophy and Duchenne muscular dystrophy. 20th International World Muscle Society Conference. Brighton, UK. Sept 30-Oct 5, 2015.

Willcocks RJ, Forbes SC, Triplett WT, Lott DJ, Senesac CS, Nicholson T, Arora H*, Walter GA, **Vandenborne K**. Magnetic resonance imaging of the arm and shoulder in boys with DMD. 20th International World Muscle Society Conference. Brighton, UK. Sept 30-Oct 5, 2015.

Willcocks, RJ, Forbes, SC, Triplett, BT, Lott, DJ, Senesac, CR, Nicholson, TR, Arora, H*, Walter, GA, **Vandenborne, K**. Magnetic resonance measures of muscle size and quality are altered in the proximal and distal upper extremity of 7-16 year old boys with DMD. 20th International World Muscle Society Conference. Brighton, UK. Sept 30-Oct 5, 2015.

Barnard AM*, Romero de Mello Sa SA, Willcocks RJ, Forbes SC, Rooney WD, Pham J, Hammers D, Triplett WT, Lott DJ, Senesac CR, Byrne BJ, Finanger EL, Russman BS, Wang DJ, Tennekoon GI, Finkel RS, Walter GA, Sweeney HL, **Vandenborne K**. Genetic polymorphisms modify intramuscular fat infiltration in Duchenne muscular dystrophy. 20th International World Muscle Society Conference. Brighton, UK. Sept 30 Oct 5, 2015.

Chrzanowski SM*, Batra A*, Lee BA*, Vohra R**, Forbes SC, **Vandenborne K**, Walter GA. Near Infrared Imaging of Damaged and Dystrophic Muscle. 2015 World Molecular Imaging Council. Honolulu, HI. September 2-5, 2015.

Willcocks RJ, Forbes SC, Triplett BT, Lott DJ, Senesac CR, Nicholson TR, Arora H*, Walter GA, **Vandenborne K**. Magnetic resonance imaging of the arm and shoulder of boys with DMD. Parent Project Muscular Dystrophy's Annual Connect Conference. Washington, D.C. June 18-20, 2015.

*Senesac, CR, *Willcocks, RJ, Lott, DJ, Forbes, SC, W. Rooney, G. Walter, L. Sweeney, **K. Vandenborne**. ImagingDMD: What have we learned in 5 years and what comes next? Parent Project Muscular Dystrophy, Washington, DC, June 2015

*indicates joint first authorship

Lee-McMullen BA*, Chrzanowski SM*, Vohra R**, Willcocks R, Cunkle H, Powers C, Baligand C, Triplett W, Forbes S, Lott D, Senesac C, Edison AS, **Vandenborne K**, Walter GA. Metabolomic Analysis of Urine in Boys with Duchenne Muscular Dystrophy. Metabolomics Society 2015, San Francisco, CA, June 2015.

Rooney WD, Berlow Y, Forbes SC, Willcocks RJ, Pollaro J, Triplett WT, Wang DJ Byrne BJ, Finkel R, Russman BS, Finanger EL, Daniels MJ, Sweeney HL, Walter GA, **Vandenborne K**. Modeling Duchenne Muscular Dystrophy Disease Progression: A Longitudinal Multicenter MRI Study. ISMRM, Toronto, Canada, May31-June5, 2015.

Forbes SC, Triplett WT, Willcocks R, Batra A*, Vohra R**, Pollaro J, Wang DJ, Finkel R, Byrne BJ, Russman BS, Finanger E, Daniels M, Rooney WD, Walter GA, Sweeney HL, and **Vandenborne K**. Dystrophic Skeletal Muscle 1H2O T2 Analyzed for Multiple Components. ISMRM, Toronto, Canada, May31- June 5, 2015.

Forbes SC, Ma J, Walter GA, **Vandenborne K**, and Lai S. Skeletal Muscle Perfusion Measured with Pseudo-Continuous Arterial Spin-Labeling MRI After Dorsiflexion Contractions. ISMRM 2015, Toronto, Canada, May31-June5, 2015.

Lott DJ, Cooke KD, Forbes SC, Jacobs AJ, George SZ, **Vandenborne K**. Determining an injury threshold for eccentric loading of the dorsiflexors using T2 MRI and NNLS, ACSM, May, 2015.

Chrzanowski SM*, Batra A*, Lee BA*, Vohra R**, Forbes SC, **Vandenborne K**, Walter GA. Near infrared optical imaging sheds new light into dystrophic and damaged muscle in mice. American Physician Scientists Association Annual Conference. Chicago, IL. April 23-26, 2015.

Bibeau V, Lott, DJ, Forbes, SC, Willcocks R, Senesac CR, Triplett W, Walter GA, **Vandenborne K**. MR Spectroscopy and Functional Measures in Boys with DMD 12-18 months Prior to Loss of Ambulation. 28th Annual PHHP Research Day. Gainesville, Florida. April 8, 2015.

Barnard AM*, Willcocks RJ, Forbes SC, Rooney WD, Triplett WT, Lott DJ, Senesac CR, Byrne BJ, Finanger EL, Russman BS, Wang DJ, Tennekoon GI, Finkel RS, Walter GA, Sweeney HL, **Vandenborne K**. Genetic polymorphisms modify intramuscular fat in Duchenne muscular dystrophy. 28th Annual PHHP Research Day. Gainesville, Florida April 8, 2015.

Arora H*, Willcocks RJ, Lott DJ, Harrington AT, Senesac CR, Forbes SC, Tennekoon GI, Finanger EL, Finkel RS, Triplett WT, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Functional decline in boys with Duchenne Muscular Dystrophy over 1 year. 28th Annual PHHP Research Day. Gainesville, Florida. April 8, 2015.

Alabasi U*, Willcocks R, Arpan I, Forbes S, Triplett T, Rooney W, Lott D, Senesac C, Finkel R, Tennekoon G, Harrington A, Finanger E, Russman B, Walter G, Sweeney HL, **Vandenborne K**. Effect of Obesity in Disease Progression in Boys with Duchenne Muscular Dystrophy. 28th Annual PHHP Research Day. Gainesville, Florida. April 8, 2015.

Batra A*, Abrogast J, Chrznawoski S, Lott DJ, Willcocks RJ, William T, Schmalfluss C, **Vandenborne KH**, Walter GA. MRI monitoring of cardiomyopathy in Duchenne Muscular Dystrophy. 10th Annual Neuromuscular Plasticity Symposium. Gainesville, Florida. March 13, 2015.

Barnard AM*, Willcocks RJ, Forbes SC, Rooney WD, Pham J, Hammers D, Triplett WT, Lott DJ, Senesac CR, Byrne BJ, Finanger EL, Russman BS, Wang DJ, Tennekoon GI, Finkel RS, Walter GA, Sweeney HL, **Vandenborne K** . Intramuscular fat is modified by genetic polymorphisms in Duchenne muscular dystrophy. 10th Annual Neuromuscular Plasticity Symposium. Gainesville, Florida. March 13, 2015.

Arora H*, Willcocks RJ, Lott DJ, Harrington AT, Senesac CR, Forbes SC, Tennekoon GI, Finanger EL, Finkel RS, Triplett WT, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. Disease progression in boys with Duchenne muscular dystrophy: 1 year longitudinal evaluation of functional performance. 10th Annual Neuromuscular Plasticity Symposium. Gainesville, Florida. March 13, 2015.

Alabasi UA*, Willcocks RJ, Arpan I, Forbes SC, Triplett WT, Rooney WD, Lott DJ, Senesac CR, Finkel RS, Tennekoon GI, Harrington AT, Finanger EL, Russman BS, Walter GA, Sweeney HL, **Vandenborne K**. Boss Mass Index and Disease Progression in Boys with Duchenne Muscular Dystrophy. 10th Annual Neuromuscular Plasticity Symposium. Gainesville, Florida. March 13, 2015.

Willcocks RJ, Forbes SC, Triplett WT, Rooney WD, Lott DJ, Harrington AT, Wang DJ, Tennekoon GI, Finanger E, Finkel R, Byrne BJ, Walter GA, Sweeney HL, **Vandenborne K**. MRI biomarkers are responsive to disease progression and predictive of functional decline in Duchenne muscular dystrophy. 2015 NMPT, Gainesville, Florida, February 2015.

Arora H*, Willcocks RJ**, Lott DJ, Senesac CR, Forbes SC, Bendixen RM**, Harrington AT, Walter GA, **Vandenborne K**. Boys with Duchenne muscular dystrophy have deficits in upper limb strength and function. 2nd Annual Institute of Child Health Policy Research Day. Gainesville, Florida. November 4, 2014.

Alabasi U*, Willcocks RJ**, Arpan I, Forbes SC, Triplett T, Rooney W, Lott DJ, Senesac CR, Finkel RS, Tennekoon GI, Harrington AT, Finanger EL, Russman BS, Walter GA, Sweeney HL, **Vandenborne K**. Association Between BMI and Intramuscular Fat Fraction in Boys with Duchenne Muscular Dystrophy. 2nd Annual Institute of Child Health Policy Research Day. Gainesville, Florida. November 4, 2014.

Arora H*, Willcocks RJ**, Lott DJ, Senesac CR, Forbes SC, Bendixen RM**, Harrington AT, Walter GA, **Vandenborne K** (2014). Difference between upper limb strength and function in control and DMD subjects. Graduate Student Research Day. Gainesville, Florida. October 28, 2014.

Forbes SC, Baligand C**, Vohra R**, Batra A*, **Vandenborne K**, Walter GA. Phosphocreatine recovery kinetics and microvascular function in mdx and nNOS-null mice assessed using MRI/MRS. Integrative Physiology of Exercise, Miami, FL, September 17-20, 2014.

Willcocks RJ**, Forbes SC, Triplett BT, Lott DJ, Senesac CR, Nicholson TR, Arora H*, Walter GA, **Vandenborne K**. Magnetic resonance measures of muscle size and quality are altered in the upper extremity of 7-16 year old boys with DMD. New Directions in Biology and Disease of Skeletal Muscle, Chicago, IL, June 29 - July 2, 2014.

Vohra R, Forbes SC, **Vandenborne K**, McNally E, Walter GA. Age dependent changes in cardiac and skeletal muscle T2 in gamma sarcoglycan deficient mice. New Directions in Biology and Disease of Skeletal Muscle, Chicago, IL, June 29 - July 2, 2014.

Chrzanowski SM*, Baligand C**, Willcocks R**, Lott DJ, Deol J, Schmalfluss I, Daniels M, Senesac C, Walter GA, **Vandenborne K**. Magnetic Resonance Imaging Detects Intramuscular Differences in Lower Legs of Boys with Duchenne Muscular Dystrophy. New Directions in Biology and Disease of Skeletal Muscle, Chicago, IL, June 29 – July 2, 2014.

Batra A*, Lott DJ, Willcocks RJ**, Forbes SC, William T, Dastgir J, Sweeney L, Bonnemann CG, Byrne B, Rooney W, Senesac C, Wang DJ, **Vandenborne K**, Walter GA. Physiological changes in lower extremity skeletal muscle based on MR and Strength measures in DMD and COL VI Myopathy. New Directions in Biology and Disease of Skeletal Muscle, Chicago, IL, June 29 - July 2, 2014.

Rooney W, Forbes SC, Triplett W, Pollaro J, Wang DJ, de Vos S, Meyer J, Willcocks RJ**, Byrne B, Finkel R, Russman B, Finanger E, Daniels M, Sweeney L, Walter GA, **Vandenborne K**. Tracking Disease Progression in Duchenne Muscular Dystrophy: Longitudinal Changes in Quantitative MR Measures. ISMRM, Med. 22, 4008, Milan, Italy, May 10-16, 2014.

Arpan I, Willcocks RJ**, Forbes SC, Lott, DJ, Senesac C, Triplett WT, Daniels MJ, Byrne BJ, Finanger EL, Finkel RS, Russman BS, Rooney WD, Tennekoon GI, Walter GA, Sweeney HL, **Vandenborne K**. MR supports the therapeutic effect of corticosteroids in 5-7 year old boys with DMD. ISMRM, Milan, Italy, May 10-16, 2014.

Forbes SC, Walter GA, Rooney WD, Wang DJ, Triplett W, Willcocks R**, Pollaro J, Byrne B, Finkel R, Russman B, Finanger E, Sweeney HL, **Vandenborne K**. T2 mapping and Single Voxel 1H-MRS Detect Skeletal Muscle Involvement in Young Boys with Duchenne Muscular Dystrophy. ISMRM, Med. 22, 4008, Milan, Italy, May 10-16, 2014.

Chrzanowski SM*, Lee-McMullen BA*, Batra A*, Vohra R, Deng Y, Jiang H, **Vandenborne K**, Walter GA. Magnetic Resonance and Optical Imaging as a Biomarker for Muscle Damage. American Physician Scientists Association Annual Conference. Chicago, IL. April 26-28, 2014.

Lee-McMullen BA*, Clendinen C, Chrzanowski SM*, Vohra R**, Baligand C**, Triplett W, Forbes S, Edison AS, **Vandenborne K**, Walter GA. Metabolomic analysis for Duchenne Muscular Dystrophy in the Mdx mouse. Translational Science 2014 Annual Meeting (Association for Clinical and Translational Science), Washington DC, April 9 11, 2014.

Willcocks RJ**, Forbes SC, Lott DJ, Senesac CR, Nicholson TR, Arora H*, Walter GA, **Vandenborne K**. Arm muscle involvement in Duchenne muscular dystrophy: A quantitative MRI and MRS study. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Vohra R**, Kumar A, Forbes SC, Batra A*, Chrzanowski SM*, Lee BA*, **Vandenborne K**, Girgenrath M, Walter GA. Magnetic resonance imaging differences in animal models of Duchenne and Congenital muscular dystrophy. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Lim W**, Baligand C**, Ye F, Vohra RS**, Ruhella A, Keener J, Bose P, Thompson F, Walter GA, **Vandenborne K**. The Changes of Muscle Morphology after Locomotor Training in a New Model of Spinal Cord Injury. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Lee-McMullen B*, Clendinen C, Chrzanowski S*, Vohra R**, Triplett W, Forbes S Edison AS, **Vandenborne K**, Walter GA. Metabolomic analysis for Duchenne Muscular Dystrophy in the Mdx Mouse Model. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Chrzanowski SM*, Lee-McMullen BA*, Batra A*, Vohra R**, Deng Y, Jiang H, **Vandenborne K**, Walter GA. Magnetic Resonance Imaging and Spectroscopy as a Biomarker for Muscle Damage. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Batra A*, Lott DJ, Willcocks RJ**, Forbes SC, William T, Dastgir J, Sweeney L, Bonnemann CG, Byrne B, Rooney W, Senesac C, Wang DJ, **Vandenborne K**, Walter G. Lower Extremity Muscle Involvement in Duchenne Muscular Dystrophy and Collagen VI myopathy. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Arpan I, Willcocks RJ**, Forbes SC, Lott DJ, Senesac C, Triplett WT, Daniels MJ, Byrne BJ, Finanger EL, Finkel RS, Russman BS, Rooney WD, Wang DJ, Tennekoon GI, Walter GA, Sweeney HL, **Vandenborne K**. Examination of the Effects of Corticosteroid Treatment on Skeletal Muscles of Boys with DMD using Magnetic Resonance Imaging and Spectroscopy. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Arora H*, Willcocks RJ**, Lott DJ, Senesac CR, Forbes SC, Bendixen RM**, Harrington AT, Walter GA, **Vandenborne K**. Performance on upper limb functional tests in control and DMD subjects. 13th Biennial Advances in Skeletal Muscle Biology in Health and Diseases Conference, Gainesville, Florida, March 5-7, 2014.

Willcocks RJ**, Forbes SC, Finanger EL, Russman B, Lott DJ, Senesac CR, Triplett WT, Daniels MJ, Byrne BJ, Finkel RS, Tennekoon GI, Rooney WD, Walter GA, Sweeney HL, **Vandenborne K**. Magnetic resonance imaging and spectroscopy detect changes with age, corticosteroid treatment, and functional progression in DMD. World Muscle Society, Asilomar, CA Oct 1-5, 2013.

Finanger EL, Pollaro J, Russman B, Lott DJ, Byrne BJ, Finkel RS, Tennekoon GI, Forbes SC, Walter GA, **Vandenborne K**, Rooney WD. MRI Measures of Bone in Duchenne Muscular Dystrophy. World Muscle Society, Asilomar, CA Oct 1-5, 2013.

Lim W*, Baligand C**, Ye F, Ruhella A, Vohra RS**, Keener J, Bose P, Thompson F, Walter GA, **Vandenborne K**. White matter integrity after severe contusion spinal cord injury under different levels of activity. National Neurotrauma Symposium, Nashville, TN, August 2013.

Baligand C**, Lee-McMullen BA*, Forbes SC, Chrzanowski SM*, **Vandenborne K**, Byrne BJ, Walter GA. Muscle metabolic signature in a mouse model of Pompe disease identified by ¹³C and ³¹P NMR spectroscopy. Presented at Muscular Dystrophy Association Annual Conference, Washington DC, April 2013 (poster presentation).

Forbes SC, Vohra R**, Batra A, **Vandenborne K**, Walter GA. Sildenafil citrate attenuates T2 the increase in skeletal muscle T2 following downhill running in mdx mice. Presented at Muscular Dystrophy Association Annual Conference, Washington DC, April 2013 (poster presentation).

Lee-McMullen BA, Sato K, Baligand C**, Zeng H, Sharma P, **Vandenborne K**, Edison AS, Dolganiuc A, Walter GA, A Metabolomics Approach to Biomarker Discovery in Non Alcoholic Steatohepatitis. Proc. Intl. Soc. Magn. Reson. Med. 21:3519 (2013). Salt Lake City, Utah, April 20-26, 2013.

Baligand C**, Triplett W, Forbes SC, Willcocks R**, Lott DJ, Vos Soren de, Pollaro J, Rooney W, Sweeney HL, Bönnemann C, **Vandenborne K**, Walter GA. Chemical shift based imaging to measure fat fractions in dystrophic skeletal muscle. Proc. Intl. Soc. Magn. Reson. Med. 21:3519 (2013). Salt Lake City, Utah, April 20-26, 2013.

Rooney W, Forbes S, Triplett W, Wang DJ, Vos S de, Pollaro J, Meyer J, Willcocks R**, Byrne B, Finkel R, Russman B, Sweeney HL, Walter GA, **Vandenborne K**. Water T2 Values in Duchenne Muscular Dystrophy: Associations with Age and Corticosteroid Treatment. Proc. Intl. Soc. Magn. Reson. Med. 21:689, 2013. Salt Lake City, Utah, April 20-26, 2013.

Forbes SC, Walter GA, Rooney WD, Wang DJ, DeVos S, Pollaro J, Triplett W, Lott DJ, Willcocks RJ**, Senesac C, Daniels MJ, Byrne B, Russman B, Finkel R, Meyer JS, Sweeney HL, **Vandenborne K**. Reproducibility of Skeletal Muscle MR measures in Children: A Multi-Center Study of Duchenne Muscular Dystrophy. Proc. Intl. Soc. Magn. Reson. Med. 21:1633 (2013). Salt Lake City, Utah, April 20- 26, 2013.

Chrzanowski SM*, Lapa ME, Triplett WT, Forbes SC, Lott DJ, De Vos S, Willcocks R**, Nicholson TR, Sweeney HL, Bonnemann CG, Byrne BJ, **Vandenborne K**, Walter GA. Magnetic Resonance Spectroscopy of Collagen VI Myopathies and Duchenne Muscular Dystrophy. 2013 ASCI/AAP/ASPA Joint Meeting. Chicago, IL. April 26-28, 2013.

Willcocks RJ**, Finanger EL, Russman BS, Lott DJ, Forbes SC, Senesac C, Wu X, Triplett WT, Harrington AT, Daniels MJ, Byrne BJ, Finkel RS, Rooney WD, Tennekoon GI, Walter GA, Sweeney HL, **Vandenborne K**. Magnetic resonance measures of muscle physiology significantly predict functional performance in boys with Duchenne Muscular Dystrophy. MDA's Scientific Conference 2013, Washington DC, April 21-24, 2013.

Batra A, Lott DJ, Willcocks RJ**, Forbes SC, William T, Dastgir J, Sweeney L, Bonnemann CG, Byrne B, Rooney W, Senesac C, Wang DJ, **Vandenborne K**, Walter G. Cross sectional and contractile area comparison in children with Duchenne muscular dystrophy and Collagen VI myopathy. MDA's Scientific Conference 2013, Washington DC, April 21-24, 2013.

Arpan I, Willcocks RJ**, Forbes SC, Lott DJ, Senesac C, Triplett WT, Daniels MJ, Byrne BJ, Finanger EL, Finkel RS, Russman BS, Rooney WD, Tennekoon GI, Walter GA, Sweeney HL, **Vandenborne K**. MR supports the therapeutic effect of corticosteroids in 5-7 year old boys with DMD. MDA's Scientific Conference 2013, Washington DC, April 21-24, 2013.

Lim W*, Baligand C**, Ye F, Vohra RS**, Ruhella A, Keener J, Bose P, Thompson F, Walter GA, **Vandenborne K**. Spinal Cord Changes after Treadmill Training in a Rat Model of Severe Contusion Injury. College of Public Health and Health Professions Research Day. Gainesville, FL, April 16, 2013. (poster presentation)

Willcocks RJ**, Lott, DJ, Forbes SC, Triplett WT, **Vandenborne K**, Walter GA. Leg MR images show similarities in identical twins with Duchenne muscular dystrophy. College of Public Health and Health Professions Research Day. Gainesville, FL, April 16, 2013. (poster presentation)

Chrzanowski SM*, Lapa ME, Lee-McMullen BA*, Triplett WT, Forbes SC, Lott DJ, Baligand C**, De Vos S, Willcocks R**, Nicholson TR, Sweeney HL, Bonnemann CG, Byrne BJ, **Vandenborne K**, Walter GA. Muscle Biochemistry of Collagen VI Deficient and Duchenne Muscular Dystrophy Patients' Upper and Lower Legs. College of Public Health and Health Professions Research Day. Gainesville, FL, April 16, 2013. (poster presentation)

Batra A, Lott DJ, Willcocks RJ**, Forbes SC, Triplett W, **Vandenborne K**, Walter G. Comparison of muscular changes in children with Duchenne muscular dystrophy and collagen VI myopathy. College of Public Health and Health Professions Research Day. Gainesville, FL, April 16, 2013. (poster presentation)

Arpan I, Willcocks RW**, Forbes SC, Lott DJ, Senesac CR, Triplett WT, Rooney WD, Wang DJ, Walter GA, **Vandenborne K**. MRS supports therapeutic effects of corticosteroids in 5-7 year old boys with DMD, College of Public Health and Health Professions Research Day. Gainesville, FL, April 16, 2013. (poster presentation)

Lim W*, Baligand C**, Ye F, Vohra RS**, Ruhella A, Keener J, Bose P, Thompson F, Walter GA, **Vandenborne K**. Assessment of Spinal Cord Structural Integrity by Diffusion Tensor Imaging Following Severe Contusion SCI. 8th Annual Neuromuscular Plasticity Symposium. Gainesville, FL, March 15, 2013. (poster presentation)

Willcocks RJ**, Lott DJ, Forbes SC, Senesac C, Triplett WT, Wu X, Rooney WR, Daniels D, Walter GA, **Vandenborne K**. Magnetic resonance measures of muscle physiology significantly predict functional performance in boys with Duchenne Muscular Dystrophy. 8th Annual Neuromuscular Plasticity Symposium. Gainesville, FL, March 15, 2013. (poster presentation)

Chrzanowski SM*, Lapa ME, Triplett WT, Forbes SC, Lott DJ, Baligand C**, De Vos S, Willcocks R**, Nicholson TR, Sweeney HL, Bonnemann CG, Byrne BJ, **Vandenborne K**, Walter GA. Magnetic Resonance Spectroscopy of Collagen VI Deficient and Duchenne Muscular Dystrophy Patients' Upper and Lower Legs. 8th Annual Neuromuscular Plasticity Symposium. Gainesville, FL, March 15, 2013. (poster presentation)

Batra A, Forbes SC, Vohra R**, Arpan I, Triplett B, Cools-Lartigue B, Lott DJ, Senesac C, Willcocks R**, Walter G, **Vandenborne K**. Atrophy Vs. Hypertrophy in Skeletal Muscles of Duchenne Muscular Dystrophy. 8th Annual Neuromuscular Plasticity Symposium, University of Florida, Gainesville, FL, March 15, 2013. (poster presentation)

Arpan I, Willcocks RW**, Forbes SC, Lott DJ, Senesac CR, Triplett WT, Rooney WD, Wang DJ, Walter GA, **Vandenborne K**. Assessment of impact of early initiation of corticosteroid therapy on lower extremity muscles in DMD using MRI and MRS. 8th Annual Neuromuscular Plasticity Symposium. Gainesville, FL, March 15, 2013. (poster presentation)

Lim W*, Baligand C**, Keener J, Ye F, Vohra RS**, Ruhella A, Bose P, Thompson F, Walter GA, **Vandenborne K**. Morphological and structural changes in rat spinal cord after severe contusion injury. University of Florida Graduate Student Research Day Conference. Gainesville FL, October 23, 2012.(poster presentation)

Batra A, Forbes SC, Vohra R**, Arpan I, Triplett W, Rooney WD, Wang DJ, Lott D, Senesac C, Walter GA, **Vandenborne K**. Contractile area changes in muscles of DMD subjects with age cross-sectional study. University of Florida Graduate Student Research Day Conference. Gainesville FL, October 23, 2012. (poster presentation)

Arpan I, Forbes SC, Willcocks R**, Lott DJ, Senesac CR, Triplett WT, Rooney WD, Wang DJ, Walter GA, **Vandenborne K**. Impact of early initiation of corticosteroid therapy on lower extremity muscles in Duchenne muscular dystrophy, Graduate Student Research Day, University of Florida, Gainesville FL, October 23, 2012. (poster presentation)

Forbes SC, Baligand C**, Vohra R**, **Vandenborne K**, Walter GA. Neuronal nitric oxide synthase- deficient mice have slower phosphocreatine recovery kinetics and reduced microvascular response following muscle contractions. New Directions in Biology and Disease of Skeletal Muscle Conference, New Orleans, Louisiana, June 17-21, 2012 (poster presentation).

Willcocks RJ**, Arpan I, Forbes SC, Lott DJ, Senesac CR, Senesac E, Walter GA, **Vandenborne, K**. Longitudinal changes in MRI transverse relaxation time in boys with Duchenne muscular dystrophy. New Directions in Biology and Disease of Skeletal Muscle Conference, New Orleans LA, June 17-21, 2012.

Rooney W, Forbes SC, Pollaro J, Wang DJ, de Vos S, Triplett W, Meyer J, Willcocks R**, Byrne B, Finkel R, Russman B, Sweeney HL, Walter GA, **Vandenborne K**. Water T2 Values are Elevated in Duchenne Muscular Dystrophy Independent of Fat Infiltration. ISMRM Annual Meeting, Proc. Intl. Soc. Magn. Reson. Med, Melbourne, Australia, May 1-7, 2012.

Gonzalez-Rothi EJ, Rombola A, Fernandez L, Daly A, Rousseau CA, Federico RA, O'Steen BE, **Vandenborne K**, Reier PJ, Fuller DD, Lane MA. Forelimb neuroplasticity following incomplete cervical spinal cord injury in adult rats. American Society for Neural Therapy and Repair Conference. Clearwater Beach, FL. April 26-28, 2012.

Lim W*, Baligand C**, Keener J, Ye F**, Vohra RS*, Ruhella A, Bose P, Walter GA, Thompson F, **Vandenborne K**. MRI and DTI Characterization of Spinal Cord Severe Contusion Injury in the Rat. Experimental Biology, San Diego CA, April 21-25, 2012.

Rundall A, Senesac C, Lott DJ, **Vandenborne K**, Bendixen R**. Effective Health Measures for Boys with Duchenne Muscular Dystrophy. Public Health and Health Professions (PHHP) Research Day, University of Florida, Gainesville FL, April 18, 2012.

Vohra RS*, Lott DJ, Mathur S, Germain SA, Senesac C, Walter GA, **Vandenborne K**. Magnetic Resonance assessment of Lower Leg muscles in Duchenne Muscular Dystrophy. Public Health and Health Professions (PHHP) Research Day, University of Florida, Gainesville FL, April 18, 2012.

Lim W*, Baligand C**, Keener J, Ye F**, Vohra RS*, Ruhella A, Bose P, Thompson F, Walter GA, **Vandenborne K**. MR characterization of the spinal cord in a severe contusion injury rat model. Public Health and Health Professions (PHHP) Research Day, University of Florida, Gainesville FL, April 18, 2012.

Kaufman ML, Lott DJ, Arpan I, Forbes S, Isreal N, Senesac C, Walter GA, **Vandenborne K**. T2 Relaxation Time and Activity in Boys with Duchenne Muscular Dystrophy. Public Health and Health Professions (PHHP) Research Day, University of Florida, Gainesville FL, April 18, 2012. (poster presentation)

Deol JK, Baligand C**, Willcocks R**, Wilson D, Senesac C, Lott DJ, deVos S, Walter GA, **Vandenborne K**. MRI grading and functional ability in Duchenne Muscular Dystrophy. Public Health and Health Professions (PHHP) Research Day, University of Florida, Gainesville FL, April 18, 2012.

Batra A, Lott DJ, Deol JK, Senesac C, Bendixen R**, Arpan I, Walter GA, **Vandenborne K**. Strength & functional ability in children with Duchene Muscular Dystrophy. Public Health and Health Professions (PHHP) Research Day, University of Florida, Gainesville FL, April 18, 2012.

Ye F**, Baligand C**, Vohra RS*, Lim W*, Ruhella A, Keener J, Deol JK, Senesac E, Bose P, Walter GA, Thompson F, **Vandenborne K**. Responses to treadmill training following severe spinal cord injury in a rat model. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Willcocks RJ**, Arpan I, Forbes SC, Lott DJ, Senesac, CR, Senesac E, Walter GA, **Vandenborne K**. Longitudinal changes in measures of T2 heterogeneity in boys with DMD. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Vohra RS*, Lott DJ, Mathur S, Senesac C, Deol J, Walter G A, **Vandenborne K**. Relationship between non-contractile component and functional measurements of lower leg muscles in Duchenne muscular dystrophy. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Ruhella, A, Baligand C**, Lim W*, Keener J, Ye F**, Vohra RS**, Bose P, Walter GA, Thompson F, **Vandenborne K**. Characterization of a severe contusion spinal cord injury model using MRI. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Lim W*, Baligand C**, Ye F**, Keener J, Vohra RS*, Ruhella A, Bose P, Walter GA, Thompson F, **Vandenborne K**. Atrophy and asymmetry in a new spinal cord injury rat model. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Gonzalez-Rothi EJ, Rombola A, Fernandez L, Alappattu M, Daly A, Rousseau CA, Federico RA, O'Steen BE, **Vandenborne K**, Reier PJ, Fuller DD, Lane MA. Neuromuscular and Functional Plasticity in the Rat Forelimb Following Incomplete Cervical Spinal Cord Injury. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Deol JK, Baligand C**, Willcocks R, Wilson D, Senesac C, Lott DJ, deVos S, Walter GA, **Vandenborne K**. MRI grading and functional ability in Duchenne Muscular Dystrophy. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Batra A, Lott DJ, Deol JK, Senesac C, Bendixen R**, Arpan I, Walter GA, **Vandenborne K**. Strength & functional ability in children with Duchene Muscular Dystrophy. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Baligand C**, Ye F**, Keener J, Forbes S, Vohra R*, Bose P, Walter GA, Thompson F, **Vandenborne K**. In vivo assessment of muscle bioenergetics in a new rat model of disuse. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Arpan I, Forbes SC, Lott DJ, Senesac CR, Senesac E, De Vos S, Walter GA, **Vandenborne K**. T2 distribution analysis provides multiple approaches to characterize muscle involvement in Duchenne Muscular Dystrophy. Neuromuscular Plasticity Symposium, University of Florida, Gainesville FL, March 16, 2012.

Ye F**, Chen YW, Gregory C, Harafuji N, Lott D, Lai SH, Mathur S, Shi RY, Scarborough M, Gibbs P, Baligand C**, **Vandenborne K**. Molecular pathways associated with immobilization and subsequent rehabilitation in patients with ankle fracture. Advances in Skeletal Muscle Biology in Health & Disease, Gainesville FL, February 22-24, 2012.

Willcocks, RJ**, Arpan, I, Forbes, SC, Lott, DJ, Senesac, CR, Walter, GA, **Vandenborne, K**. Longitudinal changes in skeletal muscle MRI T2 relaxation time in boys with Duchenne muscular dystrophy. Advances in Skeletal Muscle Biology in Health and Disease, University of Florida, Gainesville, FL, February 22-24, 2012.

Lim W*, Baligand C**, Keener J, Ye F**, Vohra RS*, Ruhella A, Bose P, Thompson F, Walter GA, **Vandenborne K**. MRI and DTI characterization of spinal cord severe contusion injury in the rat. *Advances in Skeletal Muscle Biology in Health and Disease*, University of Florida, Gainesville, FL, February 22-24, 2012.

Forbes SC, Baligand C**, Vohra R*, **Vandenborne K**, Walter GA. Effect of lack of nNOS on phosphocreatine recovery kinetics following muscle contractions. *Advances in Skeletal Muscle Biology in Health and Disease*, University of Florida, Gainesville, FL, February 22-24, 2012.

Baligand C**, Ye F**, Keener J, Forbes SC, Vohra R*, Bose P, Walter GA, Thompson F, **Vandenborne K**. In vivo Assessment of Muscle Bioenergetics in a new rat model of disuse. *Advances in Skeletal Muscle Biology in Health and Disease*, University of Florida, Gainesville, FL, February 22-24, 2012.

Triplett, WT, Baligand C**, Forbes SC, Willcocks R**, Lott DJ, DeVos S, Pollaro J, Rooney W, **Vandenborne K**, Walter, GA. Chemical Shift-based imaging to estimate fat fraction in dystrophic skeletal muscle. Accepted for presentation at the International Society for Magnetic Resonance in Medicine (ISMRM) Workshop on Fat-Water Separation, Long Beach CA, February 19-22, 2012. (poster presentation)

Ye F**, Mathur S, Liu M, Borst SE, Walter GA, Sweeney HL, **Vandenborne K**. Insulin like growth factor-I (IGF-1)'s role in skeletal muscle plasticity. American College of Sports Medicine Southeast Chapter Annual Meeting, Jacksonville FL, February 9-11, 2012.

Vohra RS*, Lott DJ, Mathur S, Germain S, Senesac C, Deol J, Walter GA, **Vandenborne K**. Quantitative Magnetic Resonance assessment of Lower Leg muscles in Duchenne Muscular Dystrophy. American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 8-12, 2012.

Senesac C, Lott DJ, Mathur S, Germain S, Deol J, Arpan I, Senesac C, Forbes SC, Walter GA, **Vandenborne K**. Longitudinal Changes in-Magnetic Resonance Evaluation of Muscle Composition in Boys with Duchenne Muscular Dystrophy- A case series. American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 8-12, 2012.

Lott, DJ, Willcocks, R**, Tokay Harrington, A, Zilke, K, Senesac, C, Finkel, R, Russman, B, Sweeney, HL, **Vandenborne, K**. Relationship between Functional Assessments and the Six-minute Walk Test in Boys with Duchenne Muscular Dystrophy. American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 8-12, 2012.

Lim W*, Baligand C**, Keener JE, Ye F**, Vohra RS*, Ruhella A, Bose P, Walter GA, Thompson FJ, **Vandenborne K**. Asymmetry in Hindlimb Muscle Atrophy Following Spinal Cord Injury and Cast Immobilization in Rats. American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 8-12, 2012.

Gonzalez-Rothi EJ, Fuller DD, Federico RA, **Vandenborne K**, Reier PJ, Lane MA. Upper extremity neuromuscular plasticity following high cervical spinal cord injury. American Physical Therapy Association Combined Sections Meeting Program, Chicago, IL, February 8-11, 2012.

Arpan, I, Forbes, SC, Lott, DJ, Senesac, C, De Vos, S, Senesac, E, Triplett, W, Walter, GA, **Vandenborne, K**. Assessment of soleus muscle involvement in children with Duchenne muscular dystrophy (DMD) using T2 mapping. American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 8-12, 2012.

Forbes SC, Vohra R*, Ye F**, **Vandenborne K**, Walter GA. Effect of Uphill running on myocardium T2 in mdx mice. Society of Cardiovascular Magnetic Resonance 15th Annual Meeting, Orlando, FL, February 2-5, 2012.

Forbes SC, Barton ER, Bish LT, Ye F**, Spinazzola J, Baligand C**, Plant D, Zeng H, Plant D, **Vandenborne K**, Sweeney HL, Walter GA. Gene transfer of arginine kinase to skeletal muscle monitored with 31P-MRS: A comparison of adeno-associated virus and adenovirus delivery methods. ISMRM Scientific Workshop on MRI-Based Cell Tracking, Miami Beach Florida, January 29- February 1, 2012.

Gonzalez-Rothi EJ, Federico RA, Daly A, Rombola A, O'Steen BE, **Vandenborne K**, Reier PJ, Fuller DD, Lane MA. Neuromuscular plasticity in the rat forelimb after high cervical spinal cord injury. 14th International Symposium on Neural Regeneration Program. Pacific Grove, CA, December 7-11 2011.

Gonzalez-Rothi EJ, Fuller DD, Federico RA, **Vandenborne K**, Reier PJ, Lane MA. Neuromuscular plasticity in the rat forelimb after high cervical spinal cord injury. Society for Neuroscience, Neuroscience 2011, Washington DC, November 12-16, 2011.

Buford TW, Lott DJ, Marzetti E, Wohlgemuth SE, **Vandenborne K**, Pahor M, Leeuwenburgh C, Manini TM. Aging of lower extremity compartments and their associations with physical function in older adults. Gerontological Society of America Annual Scientific Meeting, Boston MA, November 18-21, 2011.

Forbes SC**, Walter GA, Rooney WD, Wang DJ, DeVos S, Pollaro J, Triplett W, Lott DJ, Senesac C, Daniels MJ, Willcocks RJ**, Byrne B, Russman B, Finkel R, Sweeney HL, **Vandenborne K**. Design of a Multi- center Study to Examine Skeletal Muscles of Children with Duchenne Muscular Dystrophy using MRI/MRS. World Muscle Society meeting, Algarve, Portugal, October 2011.

Baligand C**, Ye F**, Keener J, Vohra RS*, Lim W*, Ruhella A, Bose P, Walter GA, Thomson F, **Vandenborne K**. A New Rat Model of Spinal Cord Injury Without Muscle Reloading: Morphological and Functional Assessment by MR Imaging and 31P Spectroscopy. National Neurotrauma Symposium 2011, Fort Lauderdale, FL, July 10-13, 2011:PO69.

Lott DJ, Crawford R, Forbes SC**, Senesac C, Walter GA, **Vandenborne K**. Longitudinal Assessment of Activity, Muscle Composition, and Functional Ability in Children with Duchenne muscular dystrophy. American College of Sports Medicine Annual Meeting, Denver, CO, May 31- June 4, 2011.

Rooney WD, Pollaro J, Forbes SC**, Wang DJ, **Vandenborne K**, Walter GA. Application of the Extended Phase Graph Technique to Improve T2 Quantitation Across Sites. Proc. Intl. Soc. Mag. Reson. Med. 19: 138, 2011, International Society of Magnetic Resonance Meeting (ISMRM), Montreal, Canada, May 7-13, 2011.

Forbes SC**, Bish LT, Barton ER, Ye F**, Baligand C**, **Vandenborne K**, Sweeney HL, Walter GA. Gene transfer of arginine kinase to skeletal muscle using adeno-associated virus. Proc. Intl. Soc. Mag. Reson. Med. 19: 1150, 2011, International Society of Magnetic Resonance Meeting (ISMRM), Montreal, Canada, May 7-13, 2011.

Forbes SC**, Bish LT, Sleeper MM, Mai W, **Vandenborne K**, Sweeney HL, Walter GA. AAV6-mediated delivery of a U7 exon skipping construct improves regional cardiac function in Golden Retriever muscular dystrophy dogs. Proc. Intl. Soc. Mag. Reson. Med. 19: 1313, 2011, International Society of Magnetic Resonance Meeting (ISMRM), Montreal, Canada, May 7-13, 2011.

Baligand C**, Vohra RS*, Ye F, Keener J, Lim W**, Forbes SC**, Shah PK, Bose P, Walter GA, Thompson F, **Vandenborne, K**. Morphological and metabolic characterization of a new model of spinal cord injury without reloading using 1H MRI and 31P NMR spectroscopy. Proc. Intl. Soc. Mag. Reson. Med. 19:1143, 2011, The International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, Montreal Canada, May 7-13, 2011.

Ye F**, Baligand C**, Vohra R*, Keener J, Bose P, Walter G, Thompson F, **Vandenborne K**. Skeletal muscle deficits following spinal cord injury in a new rat model, Experimental Biology, Washington, D.C., April 9-14, 2011.

Lott DJ, Urcuyo J, Senesac C, Deol J, **Vandenborne K**. Longitudinal Assessment of Physical Activity in Children with Duchenne Muscular Dystrophy. American Physical Therapy Association Combined Sections Meeting, New Orleans, LA, Feb 2011.

Arpan I, Forbes SC**, Lott DJ, Germain S, Senesac E, De Vos S, Senesac C, Walter GA, **Vandenborne K**. Comparison of MRI proton transverse relaxation time among lower leg muscles of children with Duchenne muscular dystrophy, American Physical Therapy Association Combined Sections Meeting, New Orleans, LA, February 2011.

Deol JK, Schmalfuss I, Lott DJ, Mathur S, Senesac C, Germain SA, Walter GA, **Vandenborne K**. Muscle pathology and functional ability in children with duchenne muscular dystrophy. Annual Conference of the American College of Sports Medicine, Baltimore, MD, June 2010.

Arpan I, Forbes SC**, Lott DJ, Germain SA, Sukumar M, Senesac C, Walter GA, **Vandenborne K**. Distribution of T2 in the soleus muscle of children with Duchenne muscular dystrophy. Annual Conference of the American College of Sports Medicine, Baltimore, MD, June 2010.

Akima H, Deol JK, Germain SA, Senesac C, Lott DJ, Bendixen R**, Walter GA, **Vandenborne K**. Skeletal muscle contractile and non-contractile components in boys with Duchenne muscular dystrophy by MRI. The 57th Annual Meeting of American College of Sports Medicine (Baltimore, MD, USA), June 2010.

Lott DJ, Senesac C, Urcuyo J, Deol J, Arpan I, Senesac E, **Vandenborne K**. Daily step count, gait parameters, strength, and function in children with duchenne muscular dystrophy. ACSM's Annual Meeting, Baltimore, MD, June 2010.

Forbes SC**, Germain S, Lott DJ, Senesac C, **Vandenborne K**, Walter GA. NNLS Analyses of Skeletal Muscle T2 in children with Duchenne muscular dystrophy. Presented at the American College of Sports Medicine, Baltimore, Maryland, June, 2010 (poster presentation).

Liu M**, Ye F**, Jayaraman A, Shah P, Walter GA, Bose P, Thompson FJ, **Vandenborne K**. The Effect of IGF-I Overexpression in Skeletal Muscle Following Spinal Cord Injury and Locomotor Training American College of Sports Medicine (ACSM) Washington DC, June 2010.

Forbes SC**, Wickham S, **Vandenborne K**, Mai W, Bish LT, Morine KJ, Walter GA, Sleeper MM, Sweeney HL. MRI evaluation of systemic myostatin inhibition in skeletal muscle of Golden Retriever muscular dystrophy dogs. Presented at The Ottawa Conference on New Directions in Biology and Disease of Skeletal Muscle, Ottawa, Ontario, May, 2010 (poster presentation).

Vohra RS*, Mathur S., Germain SA, Forbes S**, Bryant ND*, **Vandenborne K**, Walter GA. Altered muscle MRI characteristics after downhill and horizontal running exercise in mdx mice. New Directions in Skeletal Muscle Biology. Poster Presentation. May 2010, Ottawa, Canada.

Bendixen R**, Senesac C, Lott D, Deol J, **Vandenborne K**. Impact of Muscle Dysfunction on Physical Activity and Self-Assessment of Participation in Children with Duchenne Muscular Dystrophy. American Occupational Therapy Association 2010 Annual Meeting, Orlando, FL, April 28-May 2, 2010.

Bendixen R**, Senesac C, Lott D, Deol J, **Vandenborne K**. Impact of Muscle Dysfunction on Self-Report of Participation and Quality of Life in Boys with Duchenne Muscular Dystrophy. American Physical Therapy Association Combined Sections Meeting, San Diego, CA, February 17-20, 2010 (interactive poster presentation).

Vohra RS*, Mathur S, **Vandenborne K**, Walter GA. Quantification and localization of acute muscle damage using MRI in Duchenne muscular dystrophy. Poster Presentation. APTA, Combined Sections Meeting, February 2010.

Lott DJ, Senesac C, Mathur S, Deol JK, Germain SA, Walter GA, **Vandenborne K**. Longitudinal examination of non-invasive measures of muscle pathology in children with Duchenne muscular dystrophy. APTA, Combined Sections Meeting, February 2010.

Deol JK, Schmalfluss I, Lott DJ, Mathur S, Senesac C, Germain SA, Walter GA, **Vandenborne, K.** Magnetic resonance imaging as a qualitative assessment tool of muscle pathology in children with duchenne muscular dystrophy. APTA, Combined Sections Meeting, February 2010.

Mathur S, Vohra RS*, **Vandenborne K.**, Walter G.A. Regional differences in muscle damage following eccentric exercise in Duchenne muscular dystrophy. Applied Physiology, Nutrition, and Metabolism. Volume 34 (Suppl 1), S62. 2009. Canadian Society of Exercise Physiology, Vancouver, Nov 11-14, 2009 (platform).

Liu M**, Ye F*, Jayaraman A, Shah P, Walter GA, Bose P, Thompson FJ, **Vandenborne K.** The potential synergistic effect of IGF-I modulation and locomotor training in promoting muscle plasticity following spinal cord injury Neuroscience Annual Meeting, Chicago IL October 2009.

Mathur S, Smith BK, Senesac C, Lott DJ, Walter GA, Martin AD, **Vandenborne K.** Respiratory and limb muscle strength in boys with Duchenne muscular dystrophy. Poster presentation, Canadian Physiotherapy Association Annual Congress, Calgary, AL, May 2009.

Smith BK, Mathur S, Hotchkiss M, Ye F*, Martin AD, **Vandenborne K.**, Davenport PW. Diaphragm remodeling following acute tracheal occlusion. Poster Discussion Session, American Thoracic Society, May 2009, San Diego CA.

Lott D, Bendixen R**, Senesac C, Mathur S, Kinsey A, **Vandenborne K.** Correlations between physical activity function, and self-assessment of participation in children with Duchenne muscular dystrophy. American College of Sports Medicine 2009 Annual Conference. Seattle, WA, May 27-30, 2009. (interactive poster presentation).

Hinds R, Blank JM, Mathur S, Gregory CM, Lentz T, Tillman S, Walter GA, **Vandenborne K.** Improvements in plantarflexor size and function following rehabilitation after lower leg injury. Poster presentation – ACSM, May 2009, Seattle, WA.

Bendixen R**, Senesac C, Mathur S, Lott D, Deol J, **Vandenborne K**. Relationships Between Strength, Function, Participation in Activities and Quality of Life in Ambulatory Boys with Duchenne Muscular Dystrophy. American Occupational Therapy Association 2009 Annual Conference, April 2009, Houston, TX.

Bendixen R**, Senesac C, Mathur S, Lott D, Deol J, **Vandenborne K**. Impact of Muscle Dysfunction on Participation and Quality of Life in Boys with Duchenne Muscular Dystrophy. Society for Research in Child Development Biennial Meeting, April 2-5, 2009, Denver, CO. (Interactive poster presentation).

Attia SM, Smith BK, Mathur S, Ye F*, Hotchkiss MT, Darragh BD, Martin AD, Davenport PW, **Vandenborne K**. Satellite cell activation in the diaphragm following tracheal occlusion in rats. Southeastern ACSM Conference, Feb 2009, Birmingham AL. Finalist, for student research award. (poster).

Riesterer K, Beaulieu AN, Gregory C, Bowden MG, Kautz SA, **Vandenborne K**. Lower-extremity strength and activation deficits correlate with maximum gait speed following incomplete spinal cord injury. APTA, Combined Sections Meeting, February 2009, Las Vegas, NV.

Mathur S, Lott DJ, Germain SA, Vohra RS*, Senesac C, Walter GA, **Vandenborne K**. Muscle Pathology detected using magnetic resonance imaging and spectroscopy in boys with Duchenne muscular dystrophy. Submitted to the Combined Sections Meeting, APTA February 2009, Las Vegas, NV in *Pediatric Physical Therapy*, 21(1), 2009: p. 88. (platform).

Mathur S, Lott DJ, Germain SA, Vohra RS*, Senesac C, **Vandenborne K**, Walter GA. Magnetic resonance imaging and spectroscopy to monitor disease progression in boys with Duchenne muscular dystrophy. APTA's Combined Sections Meeting, Las Vegas, NV, February, 2009.

Lott DJ, Mathur S, Senesac C, Germain S, Kinsey A, Walter G, and **Vandenborne K**. Gait function is related to muscle fat infiltration quantified via magnetic resonance spectroscopy in children with duchenne muscular dystrophy. Submitted to the APTA's Combined Sections Meeting, February 2009, Las Vegas, NV.

Gregory C, Bowden MG, Patten C, **Vandenborne K**, Kautz SA. Improved metabolic efficiency post-stroke is associated with increased walking velocities. APTA, Combined Sections Meeting, February, 2009, Las Vegas, NV.

Bendixen R**, Senesac C, Mathur S, Lott D, **Vandenborne K**. Interrelationships between Function, Participation and Quality of Life in Boys with Duchenne Muscular Dystrophy, APTA, Combined Sections Meeting, February 2009, Las Vegas, NV.

Vohra RS*, Mathur S, Bryant N*, Germain S, **Vandenborne K** and Walter G. New directions in skeletal muscle biology. Poster Presentation. NBDH meeting, April 2008, New Orleans.

Mathur S, Lott DJ**, Senesac C, Germain SA, **Vandenborne K** and Walter GA. Quantification of longitudinal changes in muscle pathology in boys with Duchenne muscular dystrophy using magnetic resonance imaging and spectroscopy. American Congress of Rehabilitation Medicine, Toronto ON, Oct 2008 in Archives of Phys Med Rehabil. 89(10):E8. (platform).

Mathur S, Senesac C, Lott D, Walter D, **Vandenborne K**. Muscle strength and functional status in boys with Duchenne Muscular Dystrophy. ACSM meeting, June 11, 2008.

Mathur S, Senesac C, Lott DJ**, **Vandenborne K** and Walter G. Muscle strength and Functional Status in Boys with Duchenne Muscular Dystrophy. ACSM annual meeting, May 2008, Indianapolis, IN. Med Sci Sports Exerc May 2008 40(5) Suppl, S476.

Shah P*, Liu M**, Walter G and **Vandenborne K**. Non-Invasive Assessment of Oxidative Capacity in the rat hindlimb muscle after moderate spinal cord injury. Presented at the Christopher and Dana Reeve Foundation Symposium, Atlanta, GA on 10th May 2008.

Vohra RS*, Mathur S, Germain S, Bryant ND*, **Vandenborne K**, Walter GA. In-vivo monitoring of disease progression in mdx mice. *New Directions in Skeletal Muscle Biology*, Poster Presentation. New Orleans, LA, April 2008.

Vohra RS*, Mathur S, Bryant ND*, Germain S, Smith M, **Vandenborne K**, Walter GA. Magnetic resonance imaging in the evaluation on muscle damage in murine model of Muscular Dystrophy. Poster Presentation. APTA, Combined Sections Meeting, Nashville TN, Feb 2008.

Mathur S, Senesac C, Germain S, Shah P*, Jayaraman A*, **Vandenborne K**, Walter GA. Magnetic resonance imaging and spectroscopy in evaluating disease progression in Duchene muscular dystrophy: A case series. APTA, Combined Sections Meeting, February 2008, Nashville, TN.

Mathur S, Gregory CM, Lentz T, Scarborough MT, Gibbs PC, Walter GA and **Vandenborne K**. Rehabilitation leads to greater improvements in muscle size than function following cast immobilization. APTA Combined Sections Meeting, Nashville, TN, 2008.

Gregory CM, Mathur S, Lentz T, Tillman S, Woodard J and **Vandenborne K**. Impact of Immobilization and subsequent rehabilitation on muscle size and function. APTA Combined Sections Meeting Nashville, TN, 2008.

Mathur S, Senesac C, Lott DJ**, Germain S, Shah PK*, Jayaraman A*, **Vandenborne K**, Walter G. Magnetic Resonance Imaging and Spectroscopy in Evaluating Disease Progression in Duchenne Muscular Dystrophy: A Case Series. *Neuromuscular Symposium*, January 31, 2008.

Liu M*, Stevens J, Walter GA, Bose P, Thompson F, Borst S, and **Vandenborne K**. The effect of treadmill training on IGF-I levels in rat skeletal muscle and lumbar spinal cord following spinal cord injury ACSM 54th annual meeting, New Orleans, May 2007.

Ye F*, Stevens J, Liu M*, Walter GA, Li Y, Conover C, Borst S, **Vandenborne K**. Changes in IGF-I protein content in mouse skeletal muscle during reambulation following cast immobilization, American College of Sports Medicine, 2007.

Gregory CM, Mahoney ET, Bickel CS, Dudley GA, Chen YW, **Vandenborne K**. Molecular signature associated with improvements in muscle mass and glucose tolerance after spinal cord injury. *Med. Sci. Sports Exerc.*, May 2006.

Vandenborne K, Gregory CM, Walter GA, Shi R, Scarborough MT, Chen YW. Molecular signatures associated with skeletal muscle disuse atrophy in humans. *Med Sci Sports Exerc.*, May 2006.

Shah PK*, Stevens JE, Gregory CM, Pathare NC*, Jayaraman A*, Bickel CS, Bowden M, Behrman AL, Dudley GA, Walter GA, **Vandenborne K**. Skeletal Muscle Morphology after Incomplete Spinal Cord Injury. *Med Sci Sports Exerc.*, May 2006.

Liu M*, Stevens JE, Bose P, Thompson F, Walter GA, **Vandenborne K**. The effect of treadmill training on IGF-I expression in skeletal muscle following incomplete spinal cord injury. *Med Sci Sports Exerc.*, May 2006.

Walter GA, Thattaliyath B, Huard, Cahill K, Frimel T**, **Vandenborne K**. Noninvasive imaging of stem cell delivery. (Presented at Frontiers in Myogenesis Meeting, Callaway Gardens Pine Mountain, Georgia, April 27 - May 2, 2006, A97, p12).

Ilfeld BM**, Gearen PF, Enneking FK, George SZ, **Vandenborne K**. Total hip arthroplasty as an overnight-stay procedure using ambulatory perineural local anesthetic infusion: a prospective pilot feasibility study. *Reg Anesth Pain Med*, Mar-Apr 2006.

Jayaraman A*, Gregory CM, Bowden M, Stevens JE, Shah P*, Behrman AL, **Vandenborne K**. Relationship between changes in muscle size following 12 weeks of NMES induced resistance training using MRI and fiber specific analyses in persons with complete spinal cord injury. (Presented at the Proceedings of the American Physical Therapy Association Combined Sections Meeting, San Diego, February 2006).

Pathare NC*, Stevens JE, Shah P*, Jayaraman A*, Tillman S, Scarborough MT, Gibbs CP, Walter GA, **Vandenborne K**. Adaptations In Human Plantar Flexors During Rehabilitation Following Immobilization. Proceedings of the American Physical Therapy Association Combined Sections Meeting, San Diego, February 2006.

Stevens JE, Liu M*, Bose P, O'Steen W, Anderson D, Thompson F, **Vandenborne K**. Changes in Soleus Muscle Force and Fatigue after Spinal Cord Injury with Treadmill Locomotor Training in Rats. (Presented at the Proceedings of the American Physical Therapy Association Combined Sections Meeting, San Diego, February 2006).

Ilfeld BM**, Gearen PF, Enneking FK, George, SZ, **Vandenborne K**. Total Knee Arthroplasty as a 23- Hour Stay Procedure Using Ambulatory Perineural Local Anesthetic Infusion: A Prospective Feasibility Study. Anesth Analg., January 2006.

Gregory CM, Thattaliyath BD, Gaidosh GS, Liu M*, Byrne BJ, **Vandenborne K**, Walter GA. IGF-1 and hypertrophy in human skeletal myoblasts. (Presented at Frontiers in Myogenesis Meeting, Callaway Gardens, Georgia, 2006, A72, p9).

Stevens JE, Liu M*, Bose P, Walter GA, Anderson D, Thompson F, **Vandenborne K**. Changes in Soleus Muscle Function, Morphology, and IGF-I Expression with One Week of Locomotor Training in Spinal Cord Injured Rats Society For Muscle Biology. (Presented at Frontiers in Myogenesis Meeting, Callaway Gardens, Georgia, 2006, A77, p10).

Liu M*, Walter GA, Pathare NC*, Zimmerman U, Forster RE, **Vandenborne K**. A quantitative study of bioenergetics in skeletal muscle lacking carbonic anhydrase III by 31P magnetic resonance spectroscopy. (Presented at the Proceedings of the International Society for Magnetic Resonance, Seattle, Washington, 2006 p1686).

Jayaraman A*, Gregory CM**, Bowden M, Stevens JE**, Shah P*, Behrman AL, **Vandenborne K**. Skeletal muscle function in persons after incomplete spinal cord injury. Spinal Cord, December 2005.

Ifeld BM**, Wright TW, Enneking FK, Chmielewski TL**, **Vandenborne K**. Total Shoulder Arthroplasty as a 23-Hour Stay Procedure Using Ambulatory Perineural Local Anesthetic Infusion: A Prospective Feasibility Study. *Anesth Analg.*, November 2005.

Shah P*, Stevens JE**, Jayaraman A*, Pathare NC*, Bowden M, Walter GA, Phadke C, Nair PM, Behrman AL, **Vandenborne K**. Effect of locomotor training on skeletal muscle size in individuals with incomplete spinal cord injury. (Presented at the American College of Sports Medicine, Nashville June 2005).

Stevens JE**, Yarasheski KE, Yi L, Sweeney LH, **Vandenborne K**. Insulin-like Growth Factor-1 Gene Transfer Augments Muscle Protein Synthesis Rate And Size In Adult Mice. (Presented at the American College of Sports Medicine Meeting, June 2005).

Pathare N*, Stevens JE**, Shah P*, Walter GA, Scarborough MT, Jayaraman A*, Gibbs CP, **Vandenborne K**. Disuse versus reloading induced change in energy rich phosphate content in human skeletal muscle. (Presented at the American College of Sports Medicine Annual Meeting, June 2005).

Pathare N*, Liu M(), Stevens JE**, **Vandenborne K**, Walter GA. 31P Magnetic resonance spectroscopy of mouse skeletal muscle following hind limb cast immobilization. (Presented at the International Society of Magnetic Resonance in Medicine Scientific Meeting, May 2005).

Shah P*, Stevens JE**, Jayaraman A*, Pathare N*, Bowden M, Behrman AL, Walter GA, **Vandenborne K**. Loading-induced changes in Soleus muscle in patients with Incomplete Spinal Cord Injury using Magnetic Resonance Imaging. (Presented at the American College of Sports Medicine, New Orleans February 2005).

Pathare N*, Stevens JE**, Shah P*, Jayaraman A*, Scarborough MT, Gibbs CP, Tillman S, **Vandenborne K**. Contribution of muscle size and activation deficits to loss in muscle strength in human plantar flexors after immobilization. (Presented at the American Physical Therapy Association Combined Sections Meeting, February 2005).

Ilfeld BM**, Gearen PF, Enneking FK, George, SZ, **Vandenborne K**. Effect of Posterior Lumbar Plexus Perineural Local Anesthetic Infusion on Postoperative Functional Ability Following Total Hip Arthroplasty. *Reg Anesth Pain Med*, 2005.

Ilfeld BM**, Gearen PF, Enneking FK, George, SZ, **Vandenborne K**. Total Knee Arthroplasty as a 23- Hour Stay Procedure Using Ambulatory Perineural Local Anesthetic Infusion: A Prospective Feasibility Study. *Reg Anesth Pain Med*, 2005.

Ilfeld BM**, Wright TW, Enneking FK, Chmielewski TL**, **Vandenborne K**. Total Shoulder Arthroplasty as a 23-Hour Stay Procedure Using Ambulatory Perineural Local Anesthetic Infusion: A Prospective Feasibility Study. *Reg Anesth Pain Med*, 2005.

Ilfeld BM**, Wright TW, Enneking FK, Chmielewski TL**, **Vandenborne K**. The effects of ambulatory continuous interscalene nerve blocks on readiness-for-discharge following total shoulder arthroplasty: a randomized, double-blind, placebo-controlled pilot study. *Anesthesiology*, 2005.

Ilfeld BM**, Gearen PF, Enneking FK, George SZ, **Vandenborne K**. The effects of ambulatory continuous femoral nerve blocks on readiness-for-discharge following total knee arthroplasty: a randomized, double-blind, placebo-controlled pilot study. *Anesthesiology*, 2005.

Ilfeld BM**, Gearen PF, Enneking FK, George SZ, **Vandenborne K**. Total hip arthroplasty as an overnight-stay procedure using ambulatory perineural local anesthetic infusion: a prospective pilot feasibility study. *Anesthesiology*, 2005.

Gregory CM**, Bowden M, Kautz S, **Vandenborne K**. Resistance training and locomotor recovery after incomplete spinal cord injury. (Presented at the American Paraplegia Society Annual Conference, Las Vegas 2005).

Frimel TN, Gaidosh G, Walter GA, **Vandenborne K**. Noninvasive magnetic resonance imaging to determine mechanisms responsible for soleus muscle susceptibility to damage. (Presented at the American Physical Therapy Association Combined Sections Meeting, New Orleans 2005).

Jayaraman A*, Gregory CM**, Bowden M, Stevens J**, Shah P*, Behrman AL, **Vandenborne K**. Changes in skeletal muscle function after treadmill training in persons with incomplete spinal cord injury. (Presented at the American Physical Therapy Association Combined Sections Meeting, New Orleans 2005).

Liu M*, Bose P, Walter, GA, Anderson DK, Thompson F, **Vandenborne K**. Changes in soleus myosin heavy chain expression in response to training following spinal cord injury. (Presented at the American College of Sports Medicine Annual Conference, Nashville 2005).

Gregory CM**, Jayaraman A*, Bowden M, Behrman AL, **Vandenborne K**. Resistance training and muscle function in persons after incomplete spinal cord injury. (Presented at the American College of Sports Medicine Annual Conference, Nashville 2005).

Jayaraman A*, Shah P*, Gregory CM**, Stevens J**, Bowden M, Walter GA, Behrman AL, **Vandenborne K**. Mechanisms of muscle dysfunction in persons after incomplete spinal cord injury. (Presented at the American College of Sports Medicine Annual Conference, Nashville 2005).

Ilfeld BM**, Gearen PF, Enneking FK, Mace JA, Spadoni EH, Berry LF, George SZ, **Vandenborne K**. Effect of femoral perineural local anesthetic infusion on postoperative functional ability following total knee arthroplasty, abstracted. *Anesthesiology*, 2005.

Shah PK*, Stevens J**, Pathare N*, Jayaraman A*, Behrman A, **Vandenborne K**. "Assessment of plantar flexor muscle mass after Incomplete Spinal Cord Injury using Magnetic Resonance Imaging". American Congress of Rehabilitation and Science (ACRM), Florida, 2005.

Jayaraman A*, Gregory CM**, Bowden M, Stevens J**, Shah P*, Behrman AL, **Vandenborne K**. Skeletal muscle function in persons after incomplete spinal cord injury. (Presented at the Society for Neuroscience Annual Conference, San Diego 2004).

Liu M*, Bose P, Walter GA, Anderson DK, Thompson F, **Vandenborne K**. Impact of locomotor training on muscle morphology following spinal cord contusion injury. (Presented at the Neuroscience Annual Meeting, San Diego 2004).

Pathare N*, Stevens JE**, Walter GA, Scarborough MT, Tillman SM, Gibbs JD, Elliot MA, Gibbs CP, **Vandenborne K**. Muscle Contractile Area and Phosphate Metabolite Contributions to Torque deficits after Limb Disuse. (Presented at the American College of Sports Medicine Annual Meeting, June 2004).

White LJ, Castellano V, McCoy SC, Gutierrez G, Stevens JE**, **Vandenborne K**, Walter GA. Resistance Training Improves Strength and Function in Multiple Sclerosis. (Presented at the American College of Sports Medicine Meeting, June 2004).

Stevens JE**, Pathare NC*, Scarborough MT, Gibbs CP, Tillman SM, **Vandenborne K**. Muscle Contractile Area and Phosphate Metabolite Contributions to Torque. (Presented at the American College of Sports Medicine Meeting, June 2004).

Pathare NC*, Stevens JE**, Walter GA, Scarborough MT, Tillman SM, Gibbs JD, Elliot MA, Gibbs CP, **Vandenborne K**. Muscle contractile area and phosphate metabolite contributions to torque. (Presented at the American College of Sports Medicine Meeting, June 2004).

Liu M*, Bose P, Thompson F, Walter G, **Vandenborne K**. The effects of training on the skeletal muscle following spinal cord contusion injury using magnetic resonance imaging. (Presented at the International Society for Magnetic Resonance in Medicine Meeting, Kyoto, Japan May 2004).

Liu M*, Walter GA, Pathare NC*, Zimmerman U, Forster RE, **Vandenborne K**. A quantitative study of bioenergetics in carbonic anhydrase III knockout mice by in vivo ³¹P magnetic resonance spectroscopy. (Presented at the International Society for Magnetic Resonance in Medicine Meeting, Kyoto, Japan May 2004).

Frimel TN, Cahill KS, Gaidosh GS, Torres RT, Huard J, Byrne BJ, **Vandenborne K**, Walter GA. Noninvasive monitoring of stem cell delivery and muscle regeneration. (Presented at the International Society for Magnetic Resonance in Medicine Meeting, Kyoto, Japan May 2004).

Stevens JE**, Walter GA, Okereke E, Kelley M, Esterhai JL, Pathare NC*, **Vandenborne K**. Changes in phosphocreatine kinetics in patients after immobilization following an ankle fracture. (Presented at the American Physical Therapy Association Combined Sections Meeting, February 2004).

Pathare NC*, Stevens JE**, Yang Z, Walter GA, Okereke E, Kelley ME, Gibbs JD, Esterhai JL, Sweeney HL, **Vandenborne K**. Role of phosphate metabolites in declining muscle force with limb disuse. (Presented at the American Physical Therapy Association Combined Sections Meeting, February 2004).

Frimel TN, Cahill KS, Gaidosh G, Byrne BJ, **Vandenborne K**, Walter GA. Noninvasive magnetic resonance imaging of therapeutic stem cell transplantation for muscle regeneration. (Proceedings of the American Physiological Society Combined Sections Meeting, Nashville, February 2004).

Frimel TN, Gibbs D, Gaidosh, G, Walter GA, **Vandenborne K**. Noninvasive monitoring of muscle damage. (Presented at New directions in biology and disease of skeletal muscle, San Diego, San Diego, CA, January 25-27, 2004) p.17.

Liu M*, Walter GA, Torres RT, Spalthoff S, U Zimmerman, Wei Z, Gibbs JD, Forster RE, **Vandenborne K**. Effects of carbonic anhydrase inhibition on muscle metabolism by in vivo ³¹P magnetic resonance spectroscopy. (Presented at the International Society for Magnetic Resonance, Toronto, Canada 2003).

Frimel TN, Gibbs JD, Bloy D, Gaidosh G, Silver XS, Walter GA, **Vandenborne K**. Muscle damage and regeneration following cast-immobilization using T2 weighted magnetic resonance imaging. (Presented at the International Society for Magnetic Resonance, Toronto Canada, 2003).

Frimel TN, Gibbs JD, Walter GA, Silver XS, **Vandenborne K**. Adaptations in skeletal muscle during cast immobilization and reambulation in an animal model. (Presented at the American Association of Physical Therapy Association Combined Sections Meeting, Tampa 2003).

Frimel TN, Gibbs JD, Walter GA, Okereke E, Esterhai JL, Kelley ME, Stevens JE**, **Vandenborne K**. Quantitative changes in muscle cross sectional area during immobilization and rehabilitation using magnetic resonance imaging. (Presented at the American Association of Physical Therapy Association Combined Sections Meeting, Tampa 2003).

Russ DW, Binder-Macleod SA, Walter GA, **Vandenborne K**. Effects of stimulation frequency and duration on metabolism and fatigue in human skeletal muscle. (Presented at the American Physiology Association Meeting in Integrative Biology of Exercise, Portland, ME, September 2000).

Gibbs J, Barton-Davis ER, Sweeney HL, **Vandenborne K**. Prevention of atrophy using gene transfer of IGF-1. (Presented at the Federation of American Societies for Experimental Biology, San Diego, April 2000).

Russ DW, Binder-Macleod SA, **Vandenborne K**. Effects of frequency on human skeletal muscle fatigue during electrical stimulation. (Presented at the American Physical Therapy Association Combined Sections Meeting, New Orleans, February 2000).

Vandenborne K, Leung J, Walter G, DaLinka M, Schnall M. Noninvasive assessment of skeletal muscle function in human. (Presented at the Institute for Human Gene Therapy Retreat, Absecon, New Jersey, October 1999).

Gibbs J, Barton-Davis E R, Sweeney HL, **Vandenborne K**. Protection against muscle atrophy induced by cast-immobilization using viral mediated gene transfer of insulin like growth factor I. (Presented at the Institute for Human Gene Therapy Retreat, Absecon, New Jersey, October 1999).

Lacey S, Robinson K, Umille E, Plotkin R, **Vandenborne K**, D'Esposito M, DeLuca J, Natelson B. Evaluation of working memory in Persian Gulf War veterans with chronic fatigue. (Presented at Federally Sponsored Gulf War Veterans' Illnesses Research Meeting, Arlington, Virginia, June 1999).

Gibbs J, Eastlack M, Abdus S, Elliot M, Swift A, Walter G, Yim S, **Vandenborne K**. Cross-sectional area and specific force in human plantarflexors. (Presented at the American College of Sports Medicine Annual Meeting, Seattle, June 1999).

Eastlack ME, Okereke E, Esterhai JL, Abdus S, Kelley M, **Vandenborne K**. Muscle changes during casting and therapy. (Presented at the American Physical Therapy Association Annual Meeting, Washington, June 1999).

Eastlack M, Walter G, Lenrow D, Dudley G, Swift A, Yim S, Gregory C, Vardaro M, **Vandenborne K**. A comparison of in vitro enzymatic assays with in vivo ³¹P MRS of muscle metabolism. (Presented at the American College of Sports Medicine Annual Meeting, Seattle, June 1999).

Leland SE, Swift A, Shoturma D, Walter G, Barton-Davis E, **Vandenborne K**. Production of mouse muscle atrophy by cast fixation. (Presented at the American Association of Laboratory Animal Science Meeting, Cincinnati, October 1998).

Gregory C, Williams R, **Vandenborne K**, Dudley G. Enzymes of energy supply and demand in antagonistic human leg muscles. (Presented at American College of Sports Medicine, 45th Annual Meeting, Atlanta, June 1998).

Yim S, Swift A, Okereke E, Esterhai J, Elliott M, Walter G, Shaffer M, Yim S, Swift A, Okereke E, Esterhai J, Elliott M, Walter G, Shaffer M, **Vandenborne K**. Reproducibility of isometric and isokinetic testing of ankle plantar flexion strength and endurance. (Presented at American College of Sports Medicine, 45th Annual Meeting, Atlanta, June 1998).

Swift A, Yim S, Okereke E, Esterhai J, Walter G, Elliott M, **Vandenborne K**. Basal phosphate in human skeletal muscle during recovery following immobilization induced atrophy. (Presented at American College of Sports Medicine, 45th Annual Meeting, Atlanta, June 1998).

Elliott MA, Walter GA, Swift A, **Vandenborne K**, Schotland JC, Leigh JS. Specialized quantitation by principle-component analysis using complex singular value decomposition. (Presented at International Society for Magnetic Resonance in Medicine, 6th Scientific Meeting, Australia, April 1998).

Tahernia D, Okereke E, Esterhai J, Swift A, Walter G, Elliott M, Shaffer M, **Vandenborne K**. Magnetic resonance imaging to evaluate the effect of immobilization and rehabilitation on the plantar flexors of the ankle. (Presented at Orthopaedic Research Society, 44th Annual Meeting, New Orleans, March, 1998).

Tahernia D, Okereke E, Esterhai J, Elliott M, Shaffer M, Yim S, **Vandenborne K**. Evaluation of skeletal muscle function following treatment and rehabilitation of ankle fractures. (Presented at Orthopaedic Research Society, 44th Annual Meeting, New Orleans, March 1998).

Shaffer M, **Vandenborne K**, Lawson D, Luchetti W, Tahernia D, Okereke E, Esterhai J. The effects of immobilization on plantar flexion strength, endurance and function following ankle fracture. (Presented at American Physical Therapy Association Scientific Meeting and Exposition, San Diego, May 1997).

Tahernia D, **Vandenborne K**, Esterhai J, Okereke E, Luchetti W, Lawson D. The adverse effects of cast immobilization on the plantar flexors following surgical treatment of ankle fractures. (Presented at American Academy of Orthopaedic Surgeons, 64th Annual Meeting, San Francisco, May, 1997).

Greenman RL, Elliott MA, **Vandenborne K**, Schnall MD, Lenkinski RE. Chemical shift of phosphocreatine using a RARE pulse sequence with enhanced signal decay of unwanted chemical shifts. (Presented at International Society for Magnetic Resonance in Medicine, 5th Scientific Meeting, Vancouver, Canada, April 1997).

Luchetti W, Esterhai J, Okereke E, Tahernia D, Shaffer M, Walter G, Elliott, M, Lawson D, **Vandenborne K**. 31P MR spectroscopy evaluation of the impact of immobilization on the plantar flexors after ORIF of ankle fractures. (Presented at Orthopaedic Research Society, 43rd Annual Meeting, San Francisco, February 1997).

Vandenborne K, Walter G, Esterhai J, Okereke J, Shaffer M, Elliott M, Tahernia D, Lawson D, Luchetti W. Effects of surgery and cast immobilization on muscle metabolism and function. (Presented at European Society of Magnetic Resonance, Prague, September 1996).

Lawson D, Rosenbaum M, Leibel R, **Vandenborne K**. Skeletal muscle energetics in obesity. (Presented at European Society of Magnetic Resonance, Prague, September 1996).

Elliott M, Walter G, Gulish H, Lawson D, Jaffe W, Insko EK, Leigh JS, **Vandenborne K**. Volumetric measurements of human calf muscle from MRI. (Presented at European Society of Magnetic Resonance, Prague, September 1996).

Vandenborne K, Walter G, Lenrow D, Leigh JS, Fishman AP. Skeletal muscle in persian gulf veterans. (Presented at First World Congress on Chronic Fatigue Syndrome and Related Disorders, Brussels, November 1995).

Walter G, **Vandenborne K**, McCully K, Leigh JS. Noninvasive metabolic assessment of single muscles. (Presented at Society of Magnetic Resonance Meeting, Nice, Italy, August 1995).

Vandenborne K, Walter G, Esterhai J, Okereke E, Leigh JS. Skeletal muscle bioenergetics in patients with muscular atrophy. (Presented at Society of Magnetic Resonance Meeting, Nice, Italy August 1995).

Walter G, **Vandenborne K**, McCully K, Leigh JS. Noninvasive extraction of metabolic capacities in skeletal muscle. (Presented at the Federation of American Societies for Experimental Biology Meeting, Atlanta 1995).

Walter G, **Vandenborne K**, McCully K, Leigh JS. Noninvasive assessment of single muscle oxidative capacity. (Presented at American College of Sports Medicine Meeting, Minneapolis, June 1995)

Vandenborne K, Walter G, McCully K, Leigh JS. In vivo contractile and glycolytic properties of skeletal muscle. (Presented at American College of Sports Medicine Meeting, Minneapolis, June 1995).

Wright D, **Vandenborne K**, Walter G. Muscle atrophy and ³¹P-NMR in lower extremity injuries. (Presented at Orthopaedic Research Society, Orlando, February 1995)

Walter G, **Vandenborne K**, Ploutz-Snyder L, De Meirleir K, Dudley G, Leigh J S. Relationship between muscle T2 relaxation properties and metabolic state. (Presented at the American College of Sports Medicine Meeting, Indianapolis 1994).

Walter G, **Vandenborne K**, Leigh J S. Single muscle phosphocreatine recovery. (Presented at the Society of Magnetic Resonance Meeting, New York 1993).

Vandenborne K, Walter G, Goelman G, Ploutz L, Dudley G, Leigh JS. Phosphate content in fast and slow twitch muscles. (Presented at the Society of Magnetic Resonance Meeting, New York 1993).

Walter G, **Vandenborne K**, Goelman G, Ploutz L, Dudley G, Leigh JS. Imaging of skeletal muscle activation with T2-weighted images and ³¹P-localized spectroscopy. (Presented at the Society of Magnetic Resonance Meeting, New York 1993).

Walter G, **Vandenborne K**, Leigh JS, Goelman G. Oxidative metabolism as assessed by localized phosphocreatine recovery. (Presented at the Society of Magnetic Resonance Meeting, Berlin 1992).

Vandenborne K, Walter G, Leigh JS, Goelman G. Energy rich phosphates in human muscles with different fiber type mixtures. (Presented at the Society of Magnetic Resonance Meeting, Berlin 1992).

De Meirleir K, **Vandenborne K**, McCully K, JS Leigh. Oxidative capacity of the medial and lateral gastrocnemius using a simple ³¹P-NMR localization procedure. (Presented at the American Physiological Society Meeting, September 1992).

Vandenborne K, McCully K, Buyens W, Leigh JS. Muscle metabolism in the medial and lateral gastrocnemius using a simple localization procedure. (Presented at the International Symposium on Biochemistry of Exercise Meeting, Japan 1991).

Vandenborne K, McCully K, Leigh JS. A test to determine the glycolytic capacity using ³¹P MRS. (Presented at the International Congress and Exposition on Sports Medicine and Human Performance, Vancouver, Canada 1991).

Leigh J, Chance B, **Vandenborne K**, McCully K. Biochemical and physiological basis for heterogeneity in functional tissues: skeletal muscle. (Presented at the International Biophysics Congress, Ottawa, Canada 1991).