

DAVID D. FULLER
CURRICULUM VITAE

PRESENT POSITION

Professor, Department of Physical Therapy
Director, Rehabilitation Science PhD Program
Associate Director, Center for Respiratory Research and Rehabilitation

ADDRESS

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EDUCATION

University of Wisconsin, Madison, WI	Post-Doctoral Fellowship <i>Respiratory Neurobiology</i>	1999-2002
University of Arizona, Tucson, AZ	PhD, <i>Physiological Sciences</i>	1998
University of Arizona, Tucson, AZ	MS, <i>Exercise Physiology</i>	1994
Miami University, Oxford, OH	BS, <i>Exercise Science</i>	1992

PROFESSIONAL EXPERIENCE

University of Florida, Gainesville, FL Dept. of Physical Therapy	Professor	2013-present
University of Florida, Gainesville, FL Dept. of Physical Therapy	Associate Professor	2009-2013
University of Florida, Gainesville, FL Dept. of Physical Therapy	Assistant Professor	2004-09
University of Wisconsin, Madison, WI Dept. of Comparative Biosciences	Assistant Scientist	2003
University of Wisconsin, Madison, WI Dept. of Comparative Biosciences	Post-Doctoral Fellow	1999-2002
University of Arizona, Tucson, AZ Dept. of Physiology	Teaching & Research Assistant	1994-98
University of Arizona, Tucson, AZ Dept. of Exercise and Sports Science	Teaching & Research Assistant	1992-94

PROFESSIONAL ACTIVITIES

Editorial Board Service

Guest editor: <i>Experimental Neurology</i>	2016
Guest editor: <i>Respiratory Physiology and Neurobiology</i>	2011
Associate editor: <i>Frontiers in Respiratory Physiology</i>	2010-present
Editorial board: <i>Journal of Applied Physiology</i> :	2007-present

Honors & Awards

University of Florida Research Foundation Professorship	2016
New Investigator Award, American Physiological Society, Respiration Section	2009
Giles F. Filley Memorial Award for Excellence in Respiratory Physiology and Medicine	2005

Grant Reviewer*National Institutes of Health*

ZRG1-BDCN-W-06 Study Section	2016
ZRG1-IFCN-T-02 Study Section	2014
Cardiovascular and Respiratory Sciences (CVRS)	2012
Clinical Neuroplasticity and Neurotransmitters study section	2012
Neuroimmunology and Spinal Cord Injury ZRG1 BDCN-Y(02)	2011
Lung Cellular, Molecular, and Immunobiology Study Section	2010
Respiratory Integrative Biology & Translational Research (RIBT) study section	2008-09, 2014
NIH ZRG1 CVRS-B 58 R, RFA-OD-09-003: Challenge Grants Panel 19	2009

Department of Defense

Spinal Cord Injury Research Program (SCIRP), Clinical Trials	2014
Congressionally Directed Medical Research Programs Spinal Cord Injury Research (SCIRP) grant review panel	2012

Other organizations

Missouri Spinal Cord Injury/Disease Research Program	2015
Kentucky Spinal Cord and Head Injury Research Trust	2015
Muscular Dystrophy Ireland	2014
The American Physiological Society	2008-13
The Neuroscience Research Center (NRC) at the Medical College of Wisconsin	2013
The Craig H. Neilsen Foundation (USA)	2008-12
Association Française centre les Myopathies	2011
Christopher & Dana Reeve Foundation	2010
Center for Integration of Medicine & Innovative Technology (Boston, USA)	2010
The Wellcome Trust (UK)	2010
Health Research Board (Ireland)	2006-08
The Agency for Science, Technology and Research (Singapore)	2008

Manuscript Reviewer

American Journal of Physiology: Regulatory, Integrative and Comparative Physiology
 Autonomic Neuroscience: Basic and Clinical
 Comprehensive Physiology
 Behavioral Brain Research
 Brain Research
 Experimental Neurology
 Experimental Brain Research
 Frontiers in Respiratory Physiology (associate editor)
 Journal of Applied Physiology (editorial board member)
 Journal of Neurophysiology
 Journal of Neuroscience
 Journal of Neuroscience Methods
 Journal of Physiology
 Journal of Spinal Cord Medicine
 Proceedings of the National Academy of Sciences
 PLoS ONE
 Respiratory Physiology and Neurobiology

Membership

American Physiological Society	1995-present
Society for Neuroscience	2000-present

Symposium organizer

Genetic manipulation in respiratory control: basic science to clinical trials. Featured topic at the Federation of American Societies for Experimental Biology (FASEB) meeting, April, 2014

Respiratory control disorders. Featured topic at the FASEB meeting, Washington, DC, April 2011.

Disease-induced plasticity in the neural control of breathing. Featured topic at the FASEB meeting, San Francisco, CA, April 2006.

Breathing and walking following spinal cord injury. Featured symposium at the FASEB meeting, Washington D.C., April 2004.

Invited Lectures – National and International

“Control of breathing and spinal cord injury”. Miami Project to Cure Paralysis. University of Miami. Miami, FL, Nov. 2, 2016.

“Gene therapy for the respiratory system in neuromuscular disease”. Dept. of Physiology. University of Arizona. Tucson, AZ, Oct. 28, 2016.

“Respiratory Neuroplasticity and Rehabilitation”. Biomedical Engineering Seminar Series. Florida International University, Miami, FL, Feb. 12, 2016.

“Breathing, Neuromuscular Plasticity, and Rehabilitation”. Exercise Science Doctoral Seminar Series at the University of Nebraska, Omaha, on November 6, 2015.

“Breathing, Neuromuscular Plasticity, and Rehabilitation”. Rehabilitation Institute of Chicago, Chicago, IL, October 2015.

“Synaptic plasticity in respiratory control”, 2015 International Hypoxia Symposium, Alberta, Canada, March 5, 2015.

“Gene therapy for respiratory muscles and neurons”, FASEB Annual Meeting, April 28, 2014

“Neuronal injury, plasticity and respiratory rehabilitation”, Kentucky Spinal Cord Injury Research Center, University of Louisville, KY, Oct 17, 2013.

“Spinal plasticity and breathing”, Department of Neurobiology and Anatomy, Drexel University, May 8, 2013.

“Breathing and Pompe disease”, Division of Pulmonary and Critical Care Medicine, Johns Hopkins University, March 21, 2013.

“Gene therapy and Pompe disease”, Symposium on Regenerative Rehabilitation sponsored by The McGowan Institute for Regenerative Medicine and the University of Pittsburgh. Nov. 12-13, 2012.

“Neuronal injury, plasticity and respiratory rehabilitation”, Center for Neuroscience, Medical College of Wisconsin, Milwaukee, WI, Oct. 6, 2011.

“Control of breathing and pompe disease”, FASEB Annual Meeting, Washington, DC, April 2011.

“Basic science in a physical therapy department”, Presented as part of the seminar “Rehabilitation Science Research and Graduate Studies: Contributing to Evidence Based Clinical Practice” at the American Physical Therapy Association Combined Sections meeting, February 2010, San Diego.

“Cervical spinal cord injury and respiratory neuroplasticity”, presented to the Nanoscience Technology Center, University of Central Florida, Burnett School of Biomedical Sciences, Orlando, FL, August 31, 2009.

“Gene therapy for respiratory insufficiency in a mouse model of Pompe Disease”, presented at the featured symposium “Control of breathing in chronic diseases” at the FASEB Annual Meeting, New Orleans, LA, April 2009.

“Quantifying respiratory recovery after spinal cord injury”, presented at a workshop with the American Society for Neurochemistry annual meeting, Charleston, SC, March 7, 2009.

“Cervical spinal cord injury and respiratory neuroplasticity”, presented at the symposium “Physiology in Medicine: Bridging Bench and Bedside”, at the Beijing Joint Conference of Physiological Sciences. Beijing, China, October 19-22, 2008.

“Respiratory related neuroplasticity”, Dept. of Biology, Bates College, Lewiston, ME, September 2008.

“Plasticity in neurobiological systems”, presented at the symposium “Adaptation and Learning in Neural-Biomechatronic Systems”, Sponsored by the National Science Foundation, Arizona State University, Phoenix, AZ, March 2007.

“Glycogen storage disease and the neural control of breathing”, Featured symposium “Disease-induced Plasticity in the Control of Breathing” at the FASEB Annual Meeting, San Francisco, CA, April 2006.

- “Respiratory plasticity and rehabilitation following spinal cord injury”, platform presentation at the Society for Neuroscience Annual Meeting. Washington, DC, November 2005.
- “Quantifying breathing in animal models of cervical spinal cord injury and glycogen storage disease”, Pulmonary research symposium in conjunction with the American Thoracic Society Annual Meeting. Sponsored by Buxco Inc. San Diego, CA, May 2005.
- “Intermittent hypoxia: influence on upper airway motor function”, Pulmonary Research Group Symposium: “Sleep apnea: opportunities for drug discovery”. Shering-Plough Research Institute, Kenilworth, NJ, April 2005.
- “Recovery of phrenic motor function following cervical spinal cord injury”. Dept. of Anatomy and Cell Biology at Wayne State University, Detroit MI, December 2004.
- “Spinal respiratory plasticity: implications for rehabilitation following spinal cord injury”, featured symposium at the FASEB Annual Meeting, Washington, DC, April 2004.
- “Breathing, plasticity and spinal cord injury”, Dept. of Kinesiology at the University of Illinois, Champaign IL, November 2002.
- “Spinal cord plasticity and breathing”, Depts. of Exercise Science and Physical Therapy at Marquette University, Milwaukee, WI, September 2002.

Selected local presentations

- “Maximizing the Post-Doctoral Experience”, Keynote Presentation, Postdoc Research Symposium, University of Florida, April 2013
- Multiple seminars at the University of Florida: Dept. of Physical Therapy, Dept. of Neuroscience, Dept. of Physiological Sciences, APK, CTSI

University Service

Graduate education

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| Director, Rehabilitation Sciences PhD Program, University of Florida | 2012-present |
| Co-Director, NIH T32HD043730 Neuromuscular Plasticity Training Grant | 2012-present |

Committees

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| Mid-tenure review | 2013 |
| College of PPHP: Grant writing workshop (chair) | 2010-2015 |
| Faculty search committee, CHRI/PGTC | 2012 |
| Faculty search committee, Physical Therapy Dept. (chair) | 2010, 2013 |
| Committee for research excellence, Physical Therapy Dept. (co-chair) | 2007-08 |
| College of PPHP “Incentive Plan” Committee | 2007-11 |
| Chair, Rehabilitation Science Doctoral Program Steering Committee | 2012-2016 |

Grant review

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| University of Florida Opportunity Fund Awards | 2008-10, 2016 |
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Seminars

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| Organizer: “Neuromuscular Plasticity Noons” graduate student seminar | 2008-present |
| Organizer: Rehabilitation Science Seminar, Physical Therapy Dept. | 2006-16 |

Judge

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| Graduate Student Council Interdisciplinary Conference poster competition | 2011 |
| T-32 Neuromuscular Plasticity Symposium graduate poster competition | 2009-2016 |
| PPHP “Research Day” graduate and undergraduate grant and poster competition | 2007-08 |

TEACHING

University of Florida

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| PHT6935: <u>Doctoral Seminar in Rehabilitation Science</u>
(1 credit graduate course, ~15 students) | 2010, 2012, 2014 |
| PHT6935C: <u>Human Physiology</u> | 2010-2016 |

(4 credit graduate course, ~55 students)	
PHT6168C – <u>Neuroscience for physical therapists</u>	2004-10, 2016
(4 credit graduate course including lecture and neuroanatomy laboratory, ~55 students)	
PHT6318 – <u>Neuroplasticity: a foundation for rehabilitation</u>	2005-2016
(3 credit graduate course, ~15 students)	
PHT6935C - <u>Respiratory plasticity</u>	2008
(2 credit graduate course, ~15 students)	

Additional lectures given at the University of Florida

GMS 6096: Introduction to NIH Grant writing (“ <i>Successful Grant Writing</i> ”)	2013-15
PHT 6152C – <u>Exercise Physiology</u> (“ <i>The Respiratory System and Exercise</i> ” and “ <i>Exercise and Neuroplasticity</i> ”)	2006-2016
GMS 6008 – <u>Fundamentals of Physiology</u> (“ <i>Respiratory Neuroplasticity</i> ”)	2006
GMS 6002 – <u>Fundamental Neuroscience</u> (“ <i>Spinal Plasticity</i> ”)	2007
PHT 6935: <u>Translational Neuroscience Research</u> (“ <i>Respiratory Plasticity</i> ” and “ <i>Animal Models of Respiratory Dysfunction</i> ”)	2009-10

University of Wisconsin

AHABS 301 – <u>Animal Physiology</u>	2000-02
AHABS 301 – <u>Respiratory physiology laboratory</u>	2000-02

University of Arizona

Physiology 420 – <u>Exercise Physiology</u>	1997
Physiology 418/419 – <u>Physiology for Engineering Students</u>	1996
Physiology 601/801 – <u>Systems Physiology Laboratory</u>	1996
Exercise and Sport Sciences 378, 421, 521 – <u>Exercise Physiology Laboratory</u>	1993-97
Exercise and Sport Sciences 169A, 169B, 169C, 170, 184A	1992-93

MENTORING EXPERIENCE

Post-doctoral fellows (Primary mentor)

Kristi Streeter, PhD (2014-present). Spinal cord multi-unit recordings; pharmacologic treatments aimed at respiratory recovery after spinal cord injury

Sara Turner, PhD (2013-present). MRI imaging of the injured spinal cord; gene delivery to respiratory motoneurons; stem cell transplant and the injured spinal cord

Elisa Gonzalez-Rothi, PT, PhD (2013-15). High frequency spinal cord stimulation to activate phrenic motoneurons after spinal cord injury

Milapjit S. Sandhu, PT, PhD (2010-13). Spinal cord multi-unit recordings

Mai Elmallah, MD (2010-14). Gene delivery to hypoglossal motoneurons in a mouse model of Pompe Disease

Kun-Ze Lee, PhD (2008-11). Control of respiratory motoneurons in health and disease; spinal cord “cell replacement” therapy following injury

Kai Qiu, MD, PhD (2006-10). Gene delivery to respiratory motoneurons; respiratory neuroanatomy in mice

PhD student supervision (Primary mentor)

Michael Sunshine (2016-present) Rehabilitation Sciences PhD Program. Project TDB

Brendan Doyle (2015-present) Rehabilitation Sciences PhD Program. Optimizing gene delivery to hypoglossal motoneurons in a mouse model of Pompe disease.

Jayakrishnan Nair (2012-2016) Rehabilitation Sciences PhD Program. Anatomical characterization of phrenic afferent neuronal projections after spinal cord injury.

Luther Gill (2009-2012) Rehabilitation Sciences Doctoral PhD. Diaphragm muscle plasticity in disease: sepsis and spinal cord injury

Elisa Gonzalez-Rothi (2009-2012) Rehabilitation Sciences PhD Program. Plasticity in forelimb muscles after spinal cord injury: implications for respiratory control

Brendan J. Dougherty (2007-2011) Interdisciplinary Program in Biomedical Sciences. Transplant of serotonergic neurons into the injured spinal cord

Milapjit S. Sandhu (2005-2010) Rehabilitation Sciences PhD Program. Neuroplasticity in the phrenic motor system

Lara R. DeRuisseau (2004-2006) Physiological Sciences PhD Program. Ventilatory and Central Nervous System Characterization and Gene-therapy Treatment of a Mouse Model of Glycogen Storage Disease Type II

RESEARCH SUPPORT

1 R01 NS080180-01A1 NIH/NHLBI	Fuller (PI)	3.6 calendar	05/01/12-04/30/17
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Modulation of phrenic motoneuron plasticity after cervical spinal cord injury
 These experiments will determine how chronic cervical spinal cord injury alters the neural regulation of respiratory motoneurons and interneurons in the spinal cord. In particular, we are examining the role of cervical interneurons in driving phrenic motor plasticity.
 Role: PI

2R01HD052682-06A1 NIH/NINDS	Fuller / Byrne (PIs)	2.8 calendar	09/01/12-08/31/17
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Control of breathing in glycogen storage disease
 This renewal grant targets optimization of adeno-associated virus (AAV) based therapies to treat respiratory neurons in Pompe disease. Using AAV9, we are conducting experiments targeting neural correction of a specific motor pool (hypoglossal) and also systemic CNS correction using i.v. and intracisternal delivery.
 Role: PI

W81XWH-14-1-0625	Reier (PI)	0.2 calendar	09/29/14-09/28/16
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Department of Defense - Office of the Congressionally Directed Medical Research Programs (CDMRP)
Plasticity and Activation of Spared Intraspinal Respiratory Circuits Following Spinal Cord Injury
 This project focuses on developing methods for intraspinal electrical stimulation of the spinal cord as means to driving phrenic motor output after cervical spinal cord injury.
 Role: Co-I

Craig H. Neilsen Foundation	Fox (PI)	0.2 calendar	12/31/15 - 12/30/17
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Intramuscular pacing to enhance voluntary diaphragm activation
 This project is examining the impact of diaphragm stimulation or “pacing” in persons with spinal cord injury on the ability to voluntarily activate the diaphragm.
 Role: Co-I

NIH, Stimulating Peripheral Activity to Relieve Conditions (SPARC)	Bolser (PI)	1.2 calendar	09/30/2016-9/29/20
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1OT2OD001983-01
Functional mapping of peripheral and central circuits for airway protection and breathing
 In this project, our goal is to understand fundamental principles of modulation and plasticity in afferent pathways, brain networks and efferent systems controlling breathing and airway defense.
 Role: Co-I

PATENTS

U.S. Provisional Application S/No. 60/891, 369. AAV VECTORS AND USES THEREOF was filed with the U.S. Patent Office on February 23, 2007. I am a co-inventor on this patent with Dr. Barry Byrne (UF College of Medicine, Dept. of Pediatrics) as the lead investigator. My specific contribution was the finding that neural deficits contribute to respiratory insufficiency in a transgenic mouse model of Pompe Disease. Current clinical approaches to treating this disease do not target the central nervous system, and thus these findings are potentially highly relevant to treatment approaches to Pompe Disease.

PUBLICATIONS

Commentaries

3. TESTER NJ, **FULLER DD**, MATEIKA JH. Ventilatory long-term facilitation in humans. *Am J Respir Crit Care Med.* 2014 189(8):1009-10. PMID: 24735041
2. POWERS SK, SMUDER AJ, **FULLER DD**, LEVINE S. Comment on CrossTalk opposing view: The diaphragm muscle does not atrophy as a result of inactivity. *Journal of Physiology.* 2013 591:5263. PMID: 24187075
1. FREGOSI RF, BAILEY EF, **FULLER DD**. Respiratory muscles and motoneurons. *Respir Physiol Neurobiol.* 2011 179(1):1-2. PMID: 21762791

Peer-reviewed Scientific Articles

105. Allison Keeler, Donghai Liu, Marina Zieger, Lang Xiong, Jeffrey Salemi, Karl Bellve, Barry Byrne, David Fuller, Ronghua ZhuGe, Mai ElMallah. Airway smooth muscle dysfunction in Pompe (*Gaa*^{-/-}) mice. *American Journal of Physiology-Lung Cellular and Molecular Physiology.* [in press, accepted March 2017]
104. STREETER KA, SUNSHINE MD, PATEL SR, LIDDELL SS, DENHOLTZ LE, REIER PJ, **FULLER DD**, BAEKEY DM. Coupling multi-electrode array recordings with silver labeling of recording sites to study cervical spinal network connectivity. *Journal of Neurophysiology.* [in press, accepted Dec 2016]
103. MERCIER LM, GONZALEZ-ROTHI EJ, STREETER KA, PASGAI SS, POIRIER AS, **FULLER DD**, REIER PJ, BAEKEY DM. Intraspinal microstimulation and diaphragm activation following cervical spinal cord injury. *Journal of Neurophysiology.* [in press, accepted Nov 2016]
102. NAIR J, BEZDUDNAYA T, ZHOLUDEVA L, DETLOFF MR, REIER PJ, LANE MA, **FULLER DD**. Histological identification of phrenic afferent projections to the spinal cord. *Respiratory Physiology and Neurobiology.* [in press, accepted Nov 2016]
101. TURNER SM, FALK DF, BYRNE BJ, **FULLER DD**. Transcriptome assessment of the Pompe (*Gaa*^{-/-}) mouse spinal cord indicates widespread neuropathology. *Physiological Genomics.* [in press, accepted Sept 2016]
100. TURNER SM, ELMALLAH MK, HOYT AK, GREER JJ, **FULLER DD**. Ampakine CX717 potentiates intermittent hypoxia-induced hypoglossal long term facilitation. *Journal of Neurophysiology.* [in press, accepted June 2016] PMID: 27306673
99. KLOEFKORN HE, PETTINGILL TR, TURNER SMF, STREETER KA, GONZALEZ-ROTHI EJ, **FULLER DD**, ALLEN KD. Automated gait analysis through hues and areas (AGATHA): a method to characterize the spatiotemporal pattern of rodent gait. *Annals of Biomedical Engineering.* 2016 [accepted July 2016 pending minor revisions]
98. SANDHU MS, ROSS HH, LEE KZ, ORMEROD BK, REIER PJ, **FULLER DD**. Intraspinal transplantation of subventricular zone-derived neural progenitor cells improves phrenic motor output after high cervical spinal cord injury. *Experimental Neurology.* 2016 [in press, accepted June 2016] PMID: 27302679
97. **FULLER DD**, MITCHELL GS. Respiratory Neuroplasticity – overview, significance and future directions. *Experimental Neurology.* 2016 [in press, accepted May 2016] PMID: 27208699
96. TURNER SMF, HOYT AK, ELMALLAH MK, FALK DJ, BYRNE BJ, **FULLER DD**. Neuropathology in respiratory-related motoneurons in young Pompe (*Gaa*^{-/-}) mice. *Respiratory Physiology and Neurobiology* 227:48-55, 2016. PMID: 26921786

95. YAO Q, PHO H, KIRKNESS J, LADENHEIM EE, BI S, MORAN TH, **FULLER DD**, REIER PJ, BLOOM DC, SCHWARTZ AR, POLOTSKY VY. Polotsky Localizing Effects of Leptin on Upper Airway and Respiratory Control during Sleep. *Sleep*. 39(5):1097-106. 2016 PMID: 26951402
94. SMITH BK, **FULLER DD**, MARTIN AD, LOTTENBERG L, ISLAM S, LAWSON LA, ONDERS RP, BYRNE BJ. Diaphragm Pacing as a Rehabilitative Tool for Ventilator-Dependent Pompe Disease: Case Series. *Physical Therapy* 96(5):696-703, 2016. PMID: 26893511
93. Dougherty BJ, Gonzalez-Rothi EJ, Lee KZ, Ross HH, Reier PJ, **Fuller DD**. Respiratory outcomes after mid-cervical transplantation of embryonic medullary cells in rats with cervical spinal cord injury. *Experimental Neurology*. 2016, 278:22-26. PMID: 26808660
92. ElMallah MK, Stanley DA, Lee KZ, Turner SM, Streeter KA, Baekey DM, **Fuller DD**. Power spectral analysis of hypoglossal nerve activity during intermittent hypoxia-induced long term facilitation. *J Neurophysiol*. 115(3):1372-80, 2015. PMID: 26683067
91. Gonzalez-Rothi EJ, Armstrong GT, Cerreta AJ, Fitzpatrick GM, Reier PJ, Lane MA, Judge AR, **Fuller DD**. Forelimb muscle plasticity following unilateral cervical spinal cord injury. *Muscle and Nerve*. 2016, 53(3):475-8 PMID: 26662579
90. SMITH BK, CORTI M, MARTIN AD, **FULLER DD**, BYRNE BJ. Altered activation of the diaphragm in late-onset pompe disease. *Respiratory Physiology and Neurobiology* 2016 222:11-5. PMID: 26612101
89. Ross HH, Sandhu MS, Sharififar S, **Fuller DD**. Delivery of in vivo acute intermittent hypoxia in neonatal rodents to prime subventricular zone-derived neural progenitor cell cultures. *J Vis Exp*. 2015. PMID: 26556530
88. SMUDER AJ, GONZALEZ-ROTHI EJ, KWON OS, MORTON AB, SOLLANEK KJ, POWERS SK, **FULLER DD**. Cervical spinal cord injury exacerbates ventilator-induced diaphragm dysfunction. *Journal of Applied Physiology* 2016, 120(2):166-77. PMID: 26472866
87. CHAKRABORTY R, BANERJEE M, SEO D, TURNER S, **FULLER DD**, FORDER J, VEMURI BC. An efficient recursive algorithm for atlas construction. *Proceedings of the Mathematical Foundations of Computational Anatomy*, 2015. <https://www.sop.inria.fr/asclepios/events/MFCA15/>
86. GONZALEZ-ROTHI EJ, LEE KZ, DALE EA, REIER PJ, MITCHELL GS, **FULLER DD**. Intermittent hypoxia and neurorehabilitation. *Journal of Applied Physiology* 2015, 119(12):1455-65. PMID: 25997947
85. TODD AG, MCELROY J, GRANGE R, **FULLER DD**, WALTER G, BYRNE BJ, FALK DJ. Correcting neuromuscular deficits with gene therapy in Pompe disease. *Annals of Neurology* 2015, 78(2):222-34. PMID: 25925726
84. FALK DJ, SOUSTEK MS, TODD AG, MAH CS, CLOUTIER DA, KELLEY JS, CLEMENT N, **FULLER DD**, BYRNE BJ. Comparative impact of AAV and enzyme replacement therapy on respiratory and cardiac function in adult Pompe mice. *Molecular Therapy — Methods & Clinical Development*. 2015, 2:15007 PMID: 26029718
83. ELMALLAH MK, PAGLIARDINI S, TURNER SM, CERRETA AJ, FALK DF, BYRNE BJ, GREER JJ, **FULLER DD**. Stimulation of Respiratory Motor Output and Ventilation in a Murine Model of Pompe Disease by Ampakines. *American Journal of Respiratory Cell and Molecular Biology*. 2015, 53(3):326-35, PMID:25569118
82. SANDHU MS, BAEKEY DM, MALING NG, SANCHEZ JC, REIER PJ, **FULLER DD**. Mid-cervical neuronal discharge patterns during and following hypoxia. *Journal of Neurophysiology*. 2015, 113(7):2091-101. PMID: 25552641
82. GONZALEZ-ROTHI EJ, ROMBOLA AM, ROUSSEAU CA, MERCIER LM, FITZPATRICK GJ, REIER PJ, **FULLER DD**, LANE MA. Spinal Interneurons and Forelimb Plasticity after Incomplete Cervical Spinal Cord Injury in Adult Rats. *Journal of Neurotrauma*. 2015, 32(12):893-907 PMID: 25625912.
80. LEE KZ, SANDHU MS, DOUGHERTY BJ, REIER PJ, **FULLER DD**. Hypoxia triggers short term potentiation of phrenic motoneuron discharge after chronic cervical spinal cord injury. *Experimental Neurology*. 2014. 263:314-24. PMID: 25448009
79. FALK DJ, TODD AG, LEE S, SOUSTEK MS, **FULLER DD**, NOTTERPEK L, BYRNE BJ. Peripheral nerve and neuromuscular junction pathology in Pompe disease. *Human Molecular Genetics*. 2015, 24(3):625-36. PMID: 25217571 78.

78. CORTI M, SMITH BK, FALK DJ, **FULLER DD**, SANDARASUBRAMONEY H, BYRNE BJ, EVANGELOS AC. Altered Activation of the Tibialis Anterior in Individuals with Pompe Disease: Implications for Motor Unit Dysfunction. *Muscle and Nerve*. 2015, 51(6):877-83 PMID 25186912.
77. TESTER NJ, **FULLER DD**, FROMM JS, SPIESS MR, BEHRMAN AL, MATEIKA JH. Long-Term Facilitation of Ventilation in Humans with Chronic Spinal Cord Injury. *American Journal of Respiratory and Critical Care Medicine*. 2014. 189(1):57-65. PMID: 24224903
76. GILL LC, ROSS HH, LEE KZ, GONZALEZ-ROTHI EJ, DOUGHERTY BJ, JUDGE AR, **FULLER DD**. Rapid diaphragm atrophy following cervical spinal cord hemisection. *Respiratory Physiology and Neurobiology*. 2014, 192:66-73, PMID: 24341999.
75. LEE KZ, LANE MA, DOUGHERTY BJ, MERCIER LM, SANDHU MS, SANCHEZ JC, REIER PJ, **FULLER DD**. Intraspinal transplantation and modulation of donor neuron electrophysiological activity. *Experimental Neurology*. 2014, 251:47-57. PMID: 24192152
74. ELMALLAH MK, FALK DJ, NAYAK S, FEDERICO RA, SANDHU MS, POIRIER, A, REIER PJ, BYRNE BJ, **FULLER DD**. Sustained correction of motoneuron histopathology following intramuscular delivery of AAV in Pompe mice. *Molecular Therapy*. 2014 Apr;22(4):702-12. PMID: 24336173
73. SANDHU MS, LEE KZ, GONZALEZ-ROTHI EJ, **FULLER DD**. Repeated intravenous doxapram induces phrenic motor facilitation. *Experimental Neurology*. 2013, 250:108-15 PMID:24013015.
72. LEE KZ, DOUGHERTY BJ, SANDHU MS, LANE MA, REIER PJ, **FULLER DD**. Phrenic motoneuron discharge patterns following chronic cervical spinal cord injury. *Experimental Neurology*. 2013, 249: 20-32. PMID:23954215.
71. POWERS SK, SMUDER AJ, **FULLER DD**, LEVINE S. Mechanical ventilation-induced diaphragm atrophy is primarily due to inactivity. *Journal of Physiology*. 2013, 591: 5255-7. PMID: 24187073. [see also published rebuttal for this "cross talk" debate, same authors as above, *Journal of Physiology*. 2013, 591: 5263. PMID: 24187075]
70. **FULLER DD**, ELMALLAH MK, SMITH BK, CORTI M, LAWSON LA, FALK DJ, BYRNE BJ. The Respiratory Neuromuscular System in Pompe Disease. *Respiratory Physiology and Neurobiology*. 2013, 189(2):241-9. PMID: 23797185
69. **FULLER DD**, LEE KZ, TESTER NJ. The impact of spinal cord injury on breathing during sleep *Respiratory Physiology and Neurobiology*. 2013, 188(3):344-54. PMID: 23791824
68. FALK DF, MAH CS, SOUSTEK MS, LEE KZ, ELMALLAH M, CLOUTIER DA, **FULLER DD**, BYRNE BJ. Intrapleural administration of AAV9 improves neural and cardiorespiratory function in Pompe Disease . *Molecular Therapy*. 2013, 21(9):1661-7. PMID: 23723990
67. SMITH BK, COLLINS S, CONLON T, MAH C, LAWSON LA, MARTIN D, **FULLER DD**, CLEAVER B, CLEMENT N, PHILLIPS D, ISLAM S, DOBJIA N, BYRNE BB. Phase I/II trial of AAV1-GAA gene therapy to the diaphragm for chronic respiratory failure in Pompe disease: initial safety and ventilatory outcomes. *Human Gene Therapy*. 2013 Jun;24(6):630-40. PMID: 23570273
66. ROBERTS BJ, BUMSOO A, SMUDER AJ, AL-RAJHI M, GILL LC, BEHARRY AW, POWERS SK, **FULLER DD**, FERREIRA LF, JUDGE AR. Diaphragm and ventilatory dysfunction during cancer cachexia. *The FASEB Journal*. 2013 Jul;27(7):2600-10. PMID: 23515443
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